



Driving Climate Actions

# Project Verification Report

**V3.1 - 2020**



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<b>Project Verification Report Form (PVR)</b>	
<b>BASIC INFORMATION</b>	
<b>Name of approved GCC Project Verifier / Reference No.</b> (also provide weblink of approved GCC Certificate)	Carbon Check (India) Private Limited. /GCCV004/01 <a href="http://globalcarboncouncil.com/wp-content/uploads/2021/10/carbon-check-india-private-limited-ccipl.pdf">http://globalcarboncouncil.com/wp-content/uploads/2021/10/carbon-check-india-private-limited-ccipl.pdf</a>
<b>Type of Accreditation</b>	<input type="checkbox"/> Individual Track <sup>1</sup> <input checked="" type="checkbox"/> CDM Accreditation <a href="https://cdm.unfccc.int/DOE/list/DOE.html?entityCode=E-0052">https://cdm.unfccc.int/DOE/list/DOE.html?entityCode=E-0052</a> Valid from 28/03/2019 until 01/06/2024 <input checked="" type="checkbox"/> ISO 14065 Accreditation <a href="https://nabcb.qci.org.in/wp-content/uploads/2023/06/004.html">https://nabcb.qci.org.in/wp-content/uploads/2023/06/004.html</a> Valid from 28/06/2021 until 27/06/2024
<b>Approved GCC Scopes and GHG Sectoral scopes for Project Verification</b>	GCC Scope <ul style="list-style-type: none"> <li>• Green House Gas (GHG# - ACC)</li> <li>• Environmental No-harm (E+)</li> <li>• Social No-harm (S+)</li> <li>• Sustainable Development Goals (SDG+)</li> </ul> GHG Sectoral Scope Scope 1. Energy (renewable/non-renewable sources)
<b>Validity of GCC approval of Verifier</b>	08/03/2023 to 31/05/2024
<b>Title, completion date, and Version number of the PSF to which this report applies</b>	Title: - 30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant Completion Date: - 15/12/2023 Version: - Version 04
<b>Title of the project activity</b>	30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant
<b>Project submission reference no.</b> (as provided by GCC Program during GSC)	S00851
<b>Eligible GCC Project Type<sup>2</sup> as per the Project Standard</b>	<input checked="" type="checkbox"/> <b>Type A:</b> <input type="checkbox"/> Type A1

<sup>1</sup> **Note:** GCC Verifier under Individual tack is not eligible to conduct verifications for the GCC project that intends to supply carbon credits (ACCs) for CORSIA requirements.

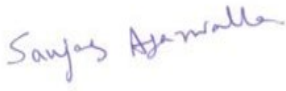
<sup>2</sup> Project Types defined in Project Standard and Program Definitions on GCC website.

Project Verification Report

(Tick applicable project type)	<input checked="" type="checkbox"/> Type A2 <input checked="" type="checkbox"/> Sub-Type 1  <input type="checkbox"/> <b>Type B – De-registered CDM Projects:</b> <input type="checkbox"/> Type B1 <input type="checkbox"/> Type <sup>3</sup> B2
<b>Date of completion of Local stakeholder consultation</b>	Local stakeholder consultation was conducted on 02/05/2018.
<b>Date of completion and period of Global stakeholder consultation. Have the GSC comments been verified. Provide web-link.</b>	29/01/2023 to 12/02/2023 <a href="#">Global Stakeholders Consultation (8) - Global Carbon Council</a>
<b>Name of Entity requesting verification service</b>  (can be Project Owners themselves or any Entity having authorization of Project Owners)	Phuoc Huu Power Investment Joint Stock Company Kosher Climate India Private Limited
<b>Contact details of the representative of the Entity, requesting verification service</b>  (Focal Point assigned for all communications)	Mr. Narendra Kumar Ramaraj Designation: Operations Head Email: <a href="mailto:narendra@kosherclimate.com">narendra@kosherclimate.com</a>
<b>Country where project is located</b>	Viet Nam
<b>GPS coordinates of the Project site(s)</b>	Latitude: 11°31'56" N (11.5322° N) Longitude: 108°52'36" E (108.8766° E)
<b>Applied methodologies</b>  (approved methodologies of GCC or CDM can be used)	ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0.
<b>GHG Sectoral scopes linked to the applied methodologies</b>	Sectoral scope 1: Energy industries (renewable / non- renewable sources)
<b>Project Verification Criteria:</b>	<input checked="" type="checkbox"/> ISO 14064-2, ISO 14064-3 <input checked="" type="checkbox"/> GCC Rules and Requirements

<sup>3</sup> GCC Project Verifier shall conduct Project Verification for all project types except B<sub>2</sub>.

<p>Mandatory requirements to be assessed</p>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Applicable Approved Methodology</li> <li><input checked="" type="checkbox"/> Applicable Legal requirements /rules of host country</li> <li><input checked="" type="checkbox"/> National Sustainable Development Criteria (if any)</li> <li><input checked="" type="checkbox"/> Eligibility of the Project Type</li> <li><input checked="" type="checkbox"/> Start date of the Project activity</li> <li><input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology</li> <li><input checked="" type="checkbox"/> Credible Baseline</li> <li><input checked="" type="checkbox"/> Additionality</li> <li><input checked="" type="checkbox"/> Emission Reduction calculations</li> <li><input checked="" type="checkbox"/> Monitoring Plan</li> <li><input checked="" type="checkbox"/> No GHG Double Counting</li> <li><input checked="" type="checkbox"/> Local Stakeholder Consultation Process</li> <li><input checked="" type="checkbox"/> Global Stakeholder Consultation Process</li> <li><input checked="" type="checkbox"/> United Nations Sustainable Development Goals (Goal No 13- Climate Change)</li> </ul>
<p><b>Project Verification Criteria:</b> Optional requirements to be assessed</p>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria</li> <li><input checked="" type="checkbox"/> Social Safeguards Standard do-no-harm criteria</li> <li><input checked="" type="checkbox"/> United Nations Sustainable Development Goals (in addition to SDG 13)</li> <li><input checked="" type="checkbox"/> CORSIA requirements</li> </ul>
<p><b>Project Verifier's Confirmation:</b> The GCC Project Verifier has verified the GCC project activity and therefore confirms the following:</p>	<p>The GCC Project Verifier Carbon Check (India) Private Limited, certifies the following with respect to the GCC Project Activity "30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant".</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the Project Submission Form version 05, dated 19/01/2024 including the applicability of the approved methodology number of CDM methodology ACM0002, version 21.0 and meets the methodology applicability conditions and is expected to achieve the forecasted real and additional GHG emission reductions, complies with the monitoring methodology, has appropriately conducted local and global stakeholder consultation processes and has calculated emission reductions estimates correctly and conservatively.</li> <li><input checked="" type="checkbox"/> The Project Activity is likely to generate GHG emission reductions amounting to the estimated 363,362 tCO<sub>2e</sub>, as indicated in the PSF, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable GCC rules, including ISO 14064-2 and ISO 14064-3.</li> <li><input checked="" type="checkbox"/> The Project Activity is not likely to cause any net-harm to the environment and/or society and complies with the Environmental and Social Safeguards Standard, and is likely to achieve the following labels:             <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Environmental No-net-harm Label (E<sup>+</sup>)</li> </ul> </li> </ul>

	<p><input checked="" type="checkbox"/> Social No-net-harm Label (S<sup>+</sup>)</p> <p><input checked="" type="checkbox"/> The Project Activity is likely to contribute to the achievement of United Nations Sustainable Development Goals (SDGs), complies with the Project Sustainability Standard, and contributes to achieving a total of 03 SDGs, with the following<sup>4</sup> SDG certification label (SDG<sup>+</sup>):</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Bronze SDG Label</li> <li><input checked="" type="checkbox"/> Silver SDG Label</li> <li><input type="checkbox"/> Gold SDG Label</li> <li><input type="checkbox"/> Platinum SDG Label</li> <li><input type="checkbox"/> Diamond SDG Label</li> </ul> <p><input checked="" type="checkbox"/> The Project Activity complies with all the applicable GCC rules<sup>5</sup> and therefore recommends GCC Program to register the Project activity with above mentioned labels.</p>
<p><b>Project Verification Report, reference number and date of approval</b></p>	<p>Reference number: - CCIPL1698/GCC/VAL/PSPP/20221216</p> <p>Version: - 1.2</p> <p>Date of Approval: - 19/01/2024</p>
<p><b>Name of the authorised personnel of GCC Project Verifier and his/her signature with date</b></p>	<p></p> <p>Sanjay Kumar Agarwalla, Technical Director</p> <p>Date: 19/01/2024</p>

<sup>4</sup> SDG Certification labels: Bronze label (1 star): by achieving 2 out of 17 SDGs; Silver label (2 star): by achieving 3 out of 17 SDGs; Gold label (3 star): by achieving 4 out of 17 SDGs; Platinum label (4 star): by achieving 5 out of 17 SDGs; and Diamond label (5 star): by achieving more than 5 out of 17 SDGs.

<sup>5</sup> “GCC Rules” are defined in Project Definitions and refers to the rules and requirements set out by the GCC program related to GHG emission reductions and its voluntary certification labels and are available on the GCC Program’s public website: <https://www.globalcarboncouncil.com/resource-centre.html>



# 1. PROJECT VERIFICATION REPORT

## Section A. Executive summary

Kosher Climate India Private Limited has appointed the Verification Body, Carbon Check (India) Private Ltd., to perform an independent project verification of the Project “30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant” in Phuoc Huu commune, Ninh Phuoc district, Ninh Thuan province in Viet Nam (hereafter referred to as “project activity”). This report summarizes the findings of verification of the project, performed based on the GCC rules and requirements as well as criteria given to provide for consistent project operations, monitoring and reporting. This report contains the findings and resolutions from the project verification and a verification opinion.

The Project activity will generate emission reductions by utilizing solar energy via the PV panels for production of renewable electricity and feeding the electricity into the national grid of Viet Nam. The average annual electricity supplied by the project activity to the national grid of Viet Nam is 44,150 MWh/year and it is translating into emission reductions of around 36,336 tCO<sub>2e</sub> per year.

The project also contributes to Environmental No-net-harm Label (E+), Social No-net-harm Label (S+), CORSIA requirements (C+) and 3 numbers. of United Nations Sustainable Development Goals (SDG+) i.e., SDG 7, 8 and 13.

“The Project Activity complies with all the applicable requirement of the GCC Program and ICAO’s requirements on CORSIA Emissions Unit Eligibility Criteria and CORSIA Eligible Emissions Units, as per Clarification No 1., v1.3 paragraph 23-25, and the ACCs expected to be issued during the crediting period is likely to be CORSIA eligible and can be used by International Airlines for offsetting their emissions during all phases of CORSIA and therefore requests GCC Steering Committee to append CORSIA Certification label (C+) to this project”.

The purpose of the project verification is to have a thorough and independent assessment of the Project Activity against the applicable GCC rules and requirements, including those specified in the Project Standard applied methodology / methodological tools and any other requirements, in particular, the project’s baseline, monitoring plan and the host Party criteria. These are verified to confirm that the project design, as documented, is sound and reasonable and meets the identified criteria. Verification requirement for all GCC projects activity is necessary to provide assurance to stakeholders of the quality of the Project Activity and its intended generation of Approved Carbon Credits (ACCs).

### Location

The Proposed Project Activity is located in the Phuoc Huu commune, Ninh Phuoc district, Ninh Thuan province in Viet Nam and belongs to the Phuoc Huu Power Investment Joint Stock Company.

Project Promoters	Installed Capacity	Physical Address	Geographical Coordinates	
			Latitude	Longitude
Phuoc Huu Power Investment Joint Stock Company	28.05 MW 30.24MWp	Phuoc Huu commune, Ninh Phuoc district, Ninh Thuan province, Viet Nam	11°31’56” N (11.5322° N)	108°52’36” E (108.8766° E)

### Scope of the GCC project verification

The project verification scope is defined as the independent and objective review of the project submission form, version 05, dated 19/01/2024 /01-d/ and listed for global stakeholder consultation on GCC website with reference no S00851<sup>6</sup>. The PSF is reviewed against the relevant criteria (see above) and decisions by the GCC, including the CDM approved baseline and monitoring methodology ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0 /B01/. The verification team has, based on the recommendations in the GCC Project Standard, Version 3.1 /B02-1/ and Project Verification Standard Version 3.1 /B02-2/ employed a rule-based approach, focusing on the identification of significant risks for project implementation and the generation of ACCs. The verification is not meant to provide any consulting towards the project (owner). However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the program design.

While carrying out the verification, CCIPL determines if the PSF complies with the requirements of the applicability conditions of the selected methodology ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0 /B01/, guidance issued by the GCC and assess the claims and assumptions made in the PSF, version 05 /01-d/ without limitation on the information provided by the project owner.

### Verification Process

#### Strategic risk Analysis and delineation of the GCC project verification: -

CCIPL employed the following GCC project verification (termed as “Project Verification” as per GCC) process:

1. Conflict of interest review at the time of contract review,
2. Selection of Audit Team at the time of contract review,
3. Kick-off meeting with the client,
4. Review of the draft PSF listed on GCC website for public consultation,
5. Development of the GCC project verification plan and sampling plan
6. Desktop review and evaluation of emission reduction calculations,
7. Follow-up interaction with the client and final statement and report development.

#### The GCC project verification process has utilized to gain an understanding of the: -

- Project’s design, GHG emission sources and reductions,
- Baseline determination and additionality,
- GHG monitoring plan,
- Environmental & Social impacts,
- Stakeholder’s consultation,
- SD indicators integrated with the project and
- Verify the collection and handling of data, the calculations that lead to the results, and the means for reporting the associated data and results.

#### Development of the GCC project verification Plan: -

The Audit Team formally documented its GCC project verification plan. The GCC project verification plan was developed based on discussion of key elements of the GCC project verification process during the kick-off meeting and as per the criteria of engagement. Client had the opportunity to comment on key elements of this plan for GCC project verification. Based on items discussed above and agreed

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<sup>6</sup> [Project Details \(globalcarboncouncil.com\)](https://www.globalcarboncouncil.com)

upon with the client in the signed contract /33/, the plan identified the CCIPL audit team members based on following:

- Project level of assurance (which is reasonable as per GCC requirements),
- Materiality threshold and
- Standards of evaluation and reporting for the GCC project verification.

It also provides an outline of the GCC project verification process and established project deliverables.

The project verification consists of the following four phases: -

- I. A desk review of the project submission form
  - a. A review of the data and information
  - b. Cross checks between information provided in the PSF, version 05 /01-d/ and information from sources with all necessary means without limitations to the information provided by the project participant.
- II. Follow-up interviews with project stakeholders
  - a. Interviews with relevant stakeholders in host country with personnel having knowledge with the project development.
  - b. Cross checking between information provided by interviewed personnel with all necessary means without limitations to the information provided by the project owner.
- III. Reference to available information relating to projects or technologies similar projects under verification and review based on the approved methodology ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0 /B01/ being applied of the appropriateness of formulae and accuracy of calculations.
- IV. The resolution of outstanding issues and the issuance of the final verification report and opinion.

The Verification team confirms the contractual relationship signed /33/ between the Verification Body, CCIPL and the project owner. The team assigned to the GCC project verification meets the CCIPL's internal procedures including the GCC requirements for the team composition and competence. The GCC project verification team has conducted a thorough contract review as per GCC and CCIPL's procedures and requirements. The report is based on the assessment of the PSF version 05 /01-d/ undertaken through stakeholder consultations, application of standard auditing techniques including but not limited to document reviews and stakeholder interviews, review of the applicable / applied methodology /B01/ and their underlying formulae and calculations. This report contains the details of the resolution of findings, and from the verification and a verification opinion on the proposed Project Activity Is provided in the report as all the raised findings are successfully resolved by the project owner. Hereby confirm that the program design in the documents is sound and reasonable and meets the stated requirements and identified criteria.

#### Conclusion

The review of the PSF, version 05 /01-d/ supporting documentation and subsequent follow-up actions (on-site audit and interviews) have provided CCIPL with sufficient evidence to determine the fulfilment of stated criteria. CCIPL is of the opinion that the project activity "30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant" in Viet Nam as described in the final PSF (Version 05, dated 19/01/2024) /01-d/ meets all relevant requirements of GCC and has correctly applied the CDM baseline and monitoring methodology ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0 /B01/.

The review of the PSF, version 05 /01-d/, supporting documentation and subsequent follow-up actions (On-site audit and interviews) have provided CCIPL with sufficient evidence to determine the fulfilment

of the voluntary labels E+, S+ and SDG+ with silver rating. Therefore, the project is being recommended to GCC Steering Committee for request for registration.

“The Project Activity complies with all the applicable requirement of the GCC Program and ICAO’s requirements on CORSIA Emissions Unit Eligibility Criteria and CORSIA Eligible Emissions Units, as per Clarification No 1., v1.3 paragraph 23-25, and the ACCs expected to be issued during the crediting period is likely to be CORSIA eligible and can be used by International Airlines for offsetting their emissions during all phases of CORSIA and therefore requests GCC Steering Committee to append CORSIA Certification label (C+) to this project”.

## Section B. Project Verification team, technical reviewer and approver

>>

### B.1. Project Verification team

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of GCC Project Verifier or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Project Verification findings
1.	Team Leader / Technical Expert/Financial Expert	IR	Mathew	Vijay	CC IPL	X	X	X	X
2.	Team Member	IR	Raychoudhury	Rishi Kishore	CC IPL	X	X	X	X
3.	Local Expert	ER	Ngoc Trang	Nguyen Hong	CC IPL	NA	X	X	NA

### B.2. Technical reviewer and approver of the Project Verification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of GCC Project Verifier or outsourced entity)
1.	Technical reviewer	ER	Seshan	Ranganathan	CC IPL
2.	Approver	IR	Agarwalla	Sanjay Kumar	CC IPL

## Section C. Means of Project Verification

### C.1. Desk/document review

The verification was performed primarily as a document review of the initial PSF, version 02 dated 18/01/2023 /01-a/ and revised / final PSF, version 05, dated 19/01/2024 /01-d/. The verification of information provided in the PSF was performed using the source of information provided by the project owner. Additionally, the cross checks were performed for information provided in the PSF using information from sources other than the verification sources, the verification team’s sectoral or local expertise and, if necessary, independent background investigations.

List of all documents reviewed or referenced during the verification is provided in Appendix-3.

## C.2. On-site inspection

Duration of on-site inspection: 22/02/2023				
No.	Activity performed on-site	Site location	Date	Team member
1.	Discussions and review of: <ul style="list-style-type: none"> <li>• Project Design</li> <li>• Project Technology</li> <li>• Project boundary</li> <li>• Applicability of methodology</li> <li>• Environmental Management Plan/ EPP</li> <li>• Local stakeholders meeting process</li> <li>• Management structure with Roles and Responsibilities</li> <li>• Project implementation schedule</li> <li>• Pre project (existing) scenario to meet the energy (heat and electricity) demand</li> <li>• Monitoring Plan</li> <li>• Socio-economic Impacts of the project activity</li> <li>• Sustainability aspects of the project (SDGs)</li> <li>• Baseline Scenarios and alternatives</li> <li>• Project additionality</li> <li>• Emission reduction calculations</li> </ul>	Phuoc Huu commune, Ninh Phuoc district, Ninh Thuan province, Viet Nam	22/02/2023	Vijay Mathew  Rishi Kishore Raychoudhury  Nguyen Hong Ngoc Trang

## C.3. Interviews

No.	Interview			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	K Sunil	Mahima	Kosher Climate	22/02/2023	Project Description, Project affiliation and status, Additionality, Baseline Calculation, Regulatory requirements, Operation and Maintenance procedure, E+ and S+ requirements, SDG Parameters etc.	Vijay Mathew
2.	Hang	Pham Minh	Kosher Climate			Rishi Kishore Raychoudhury
3.	Tean	Tran Van	Kosher Climate			Nguyen Hong Ngoc Trang
4.	Duc	Ghan Quay	Local Stakeholder		Project Description, Baseline identification, Project Boundary, Baseline Calculation, Monitoring procedures & Calibration of meters, Operation and Maintenance procedure, Data recording and archiving, Emergency procedures, Safety Procedures etc. Local Stakeholder Consultation, Mode of Invitation, Agenda of the LSC, Consideration of Comments of LSC and Feedback mechanism, advantages and disadvantages of the project, E+ and S+ status, SDG status etc.	
5.	Pluiong	Phon Ngujen Ngcc	Local stakeholder			
6.	Phuong	Do Minh	PPI			
7.	Huw	Nguyen Thi Lam	PPI			

#### C.4. Sampling approach

Not Applicable

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

Areas of Project Verification findings	Applicable to Project Types	No. of CL	No. of CAR	No. of FAR
<b>Green House Gas (GHG)</b>				
Identification and Eligibility of project type	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	CL 01	00	00
General description of project activity	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	CL 02	CAR 01	00
Application and selection of methodologies and standardized baselines	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>			
- Application of methodologies and standardized baselines	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	CAR 03 CAR 04	00
- Deviation from methodology and/or methodological tool	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	00	00
- Clarification on applicability of methodology, tool and/or standardized baseline	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	00	00
- Project boundary, sources and GHGs	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	00	00
- Baseline scenario	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	00	00
- Demonstration of additionality including the Legal Requirements test	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	CL 03	CAR 05	00

- Estimation of emission reductions or net anthropogenic removals	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	CAR 07 CAR 12	00
- Monitoring plan	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	CL 04	CAR 06 CAR 08	00
Start date, crediting period and duration	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	CAR 11	00
Environmental impacts	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	CL 05	00	00
Local stakeholder consultation	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub>	CL 06	00	00
Approval & Authorization- Host Country Clearance	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	00	FAR 01
Project Owner- Identification and communication	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	00	00
Global stakeholder consultation	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub>	00	00	00
Others (please specify)	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub> , B <sub>2</sub>	00	00	00
<b>VOLUNTARY CERTIFICATION LABELS</b>				
Environmental Safeguards (E <sup>+</sup> )	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub>	00	CAR 09	00
Social Safeguards (S <sup>+</sup> )	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub>	00		00
Sustainable development Goals (SDG <sup>+</sup> )	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub>	00	CAR 10	00
Authorization on Double Counting from Host Country (only for CORSIA)	A <sub>1</sub> , A <sub>2</sub> , B <sub>1</sub>	00	00	FAR 01
CORSIA Eligibility (C <sup>+</sup> )		00	CAR 02	
<b>Total</b>		06	12	01

## Section D. Project Verification findings

### D.1. Identification and eligibility of project type

<b>Means of Project Verification</b>	Desk Review and Interviews		
<b>Findings</b>	CL 01 is raised and closed satisfactorily. Please refer to Appendix 4 for further details.		
<b>Conclusion</b>	The GCC Project Verification team reviewed the PSF /01/ and confirms that the Project Owner determines the type of proposed GCC project activity as follows;		
	<b>Parameters</b>	<b>Project Position</b>	<b>Verified Documents</b>
	Type of Project	Type A2. These types of projects are prompt-start and had already started their operations as of 5 July 2020. Their start date of operations shall be after 1 January 2016 but before 5 July 2022.	The Project activity has started on 09/05/2019 which is before 5 July 2020 and after 1 January 2016. PSF/01/, Commissioning certificate /08/
	Sub type	Sub-Type 1. The project is an existing operational project, not submitted to any Program, which have started operations after 1 January 2016.	The Project activity started on 09/05/2019 which is before 5 July 2020 and after 1 January 2016. PSF/01/, Commissioning certificate /08/, Declaration /30/. GCC Verifier has also cross checked with other programs /B08/ and found the project activity is not registered in another registry.
	Start date of project activities	09/05/2019	PSF/01/, Commissioning certificate /08/
	Start date of Crediting period	From 09/05/2019 to 08/05/2029	As per clarification no. 1, v1.3 /B02-6/ start date is

			considered for the earliest date among the bundle project. PSF/01/, Commissioning certificate /08/
	Global stakeholder consultation	29/01/2023 to 12/02/2023	<a href="#">Global Stakeholders Consultation (8) - Global Carbon Council</a>
<p>The project activity complies with the requirement of para. 11 of the GCC Project Standard (version 03.1) /B02-1/ and GCC clarification no.01 /B02-6/ and para. 25 (b) of GCC Project Verification Standard (version 03.1) /B02-1/.</p>			

## D.2. General description of project activity

<b>Means of Project Verification</b>	Desk Review and Interviews																										
<b>Findings</b>	CL 02 & CAR 01 are raised and closed satisfactorily. Please refer to Appendix 4 for further details.																										
<b>Conclusion</b>	<p>The description of the project activity contained in the PSF /01/ can be considered transparent, detailed and provides a clear overview of the project. Its content was confirmed by means of document review and interviews to verify the accuracy and completeness of the project description.</p> <table border="1"> <thead> <tr> <th>Parameters</th> <th>Project Details</th> <th>Verified documents</th> </tr> </thead> <tbody> <tr> <td>Name of the Project</td> <td>30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant</td> <td>PSF/01/, LOA /04/</td> </tr> <tr> <td>Project developer</td> <td>Phuoc Huu Power Investment Joint Stock Company</td> <td>PSF/01/, Commissioning certificate /08/ and EIA approval /36/.</td> </tr> <tr> <td>Capacity</td> <td>28.05 MW 30.24 MWp</td> <td>Commissioning certificate /08/ CIFSR /27/, PPA /11/ On-site visit /24/</td> </tr> <tr> <td>Purpose of the project</td> <td>The purpose of the project activity is to generate electricity using solar photo voltaic technology. the electricity generated is supplied to the Provincial Viet Nam Electricity Corporation (EVN) i.e., Viet Nam national grid.</td> <td>Commissioning certificate /08/ CIFSR /27/, PPA /11/ On-site visit /24/</td> </tr> <tr> <td>Annual Generation</td> <td>44,150 MWh/year</td> <td>CIFSR /27/</td> </tr> <tr> <td>Degradation factor</td> <td>0.65%</td> <td>Manufacturer Specification -Technical specification/ 7/</td> </tr> <tr> <td>Emission reduction</td> <td>363,362 tCO<sub>2e</sub> (for the entire crediting period.</td> <td>ER/2/</td> </tr> </tbody> </table>			Parameters	Project Details	Verified documents	Name of the Project	30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant	PSF/01/, LOA /04/	Project developer	Phuoc Huu Power Investment Joint Stock Company	PSF/01/, Commissioning certificate /08/ and EIA approval /36/.	Capacity	28.05 MW 30.24 MWp	Commissioning certificate /08/ CIFSR /27/, PPA /11/ On-site visit /24/	Purpose of the project	The purpose of the project activity is to generate electricity using solar photo voltaic technology. the electricity generated is supplied to the Provincial Viet Nam Electricity Corporation (EVN) i.e., Viet Nam national grid.	Commissioning certificate /08/ CIFSR /27/, PPA /11/ On-site visit /24/	Annual Generation	44,150 MWh/year	CIFSR /27/	Degradation factor	0.65%	Manufacturer Specification -Technical specification/ 7/	Emission reduction	363,362 tCO <sub>2e</sub> (for the entire crediting period.	ER/2/
Parameters	Project Details	Verified documents																									
Name of the Project	30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant	PSF/01/, LOA /04/																									
Project developer	Phuoc Huu Power Investment Joint Stock Company	PSF/01/, Commissioning certificate /08/ and EIA approval /36/.																									
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Purpose of the project	The purpose of the project activity is to generate electricity using solar photo voltaic technology. the electricity generated is supplied to the Provincial Viet Nam Electricity Corporation (EVN) i.e., Viet Nam national grid.	Commissioning certificate /08/ CIFSR /27/, PPA /11/ On-site visit /24/																									
Annual Generation	44,150 MWh/year	CIFSR /27/																									
Degradation factor	0.65%	Manufacturer Specification -Technical specification/ 7/																									
Emission reduction	363,362 tCO <sub>2e</sub> (for the entire crediting period.	ER/2/																									



Since solar energy is clean energy, the project activity does not involve any fossil fuel firing and hence no greenhouse gases are involved in the project activity. The power generation from the project activity replaces the equal amount of power which otherwise would have been supplied from the fossil fuel dominated grid. Thus, project activity helps in an average annual emission reduction of 36,336 tCO<sub>2</sub>e/year for a period of 10 years.

The project activity has generated 24.81 MWh in 2019 /16/, 39.83 MWh in 2020 /16/, 47.32 MWh in 2021 /16/ and 47.63 MWh in 2022 /16/ which is lower than 43.80% & 9.78% for 2019 & 2020 respectively compared to estimated annual electricity generation. And for 2021 & 2022 it is 7.18% & 7.88% higher than the estimated annual electricity generation. GCC verifier observed that the project activity is delivering real, measurable and additional emission reduction compared to baseline.

The project site is in Phuoc Huu commune, Ninh Phuoc district, Ninh Thuan province, Viet Nam. The geographic co-ordinates for the project activity are as follows:

GPS coordinates	Degrees, minutes seconds	Decimal
Latitude:	11°31'56" N	11.5322° N
Longitude:	108°52'36" E	108.8766° E

The same was confirmed by the measurement of co-ordinates using google earth software and GPS at the project site. The other details such as district and province name of the project location are checked during the physical on-site verification /24/; further, the solar project was cross checked with the commissioning certificate /08/ of the project activity and were found appropriate.

Parameters	Project Details	Verified documents
Type of Project	Greenfield Solar power project	Commissioning certificate /08/ CIFSR /27/, PPA /11/ EPC contract/ 09/, O&M contract /10/.
Technology	Polycrystalline Solar Panels	
PV Modules	Trina Solar 330 Wp (91,650)	
Central Inverter	TMEIC PVH-L2550E-2550 KVA (11 No.)	
Project Capacity	DC Capacity- 30.24 MWp AC Capacity- 28.05 MW (Installed)	
Lifetime of the project	25 Years	
Project start date	09/05/2019	Commissioning certificate/08/

The baseline scenario is that the electricity delivered to the grid by the project activity would be generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid. The same complies with the applied methodology /B-02/. The project is expected to generate and feed GHG free electricity to the connected national electricity grid of Viet Nam.

As stated in the PSF /01/, the project activity also voluntarily contributes to Environmental No-net-harm Label (E+), Social No net-harm Label (S+) and United Nations Sustainable Development Goals (SDG+).

GCC labels applied	Environmental No-net-harm Label (E+), Social No-net-harm Label (S+),
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	CORSIA requirements (C+) and United Nations Sustainable Development Goals (SDG+)
Environmental No-net-harm Label (E+) score	+7
Social No-net-harm Label (S+) score	+7
Number of United Nations Sustainable Development Goals (SDG+) opted	3

The project owner has described the GHG emission-reduction activity, including schematics, specifications and a description of how the project reduces GHG emissions. This is as per para.36 of GCC Project Standard Version 03.1 /B02-1/ and cross checked with PSF /01/.

The Project Activity is a voluntary action by the project owner as confirmed by the verification team upon review of the PSF /01/ and on-site visit interviews /24/.

In accordance with para.44 of GCC Project Standard (version 03.1) /B02-1/, the verification team has assessed the geographical boundary of the Project Activity, within which it will be implemented, and confirms that geographical boundary of the Project Activity comprises the following boundaries.

- The solar power plant itself
- The point of connection to Viet Nam national grid for sale of electricity.

This was checked and confirmed by reviewing the PSF /01/, on-site visit interviews with representatives of project owner.

As per the PSF /01/, start date of the Project Activity is 09/05/2019 (Start date of commercial operation of the Project) /08/. The same is in accordance with requirements of para.38 of GCC Project Standard (version 03.1) /B02-1/.

A crediting period is a fixed crediting period for the Project Activity, from 09/05/2019 to 08/05/2029 i.e., of 10 years. This is cross checked by PSF /01/ and conforms to the requirement of para.39 and para.40 of GCC Project Standard Version 03.1 /B02-1/.

CC IPL confirms that the description of the proposed Project Activity in the PSF is accurate and complete and it provides an understanding of the Project Activity.

### D.3. Application and selection of methodologies and standardized baselines

#### D.3.1 Application of methodology and standardized baselines

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	CAR 03 & CAR 04 are raised and closed satisfactorily. Please refer to Appendix 4 for further details.
<b>Conclusion</b>	The CDM methodology applied is ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0 /B01/. It is applicable to greenfield renewable energy power generation using solar photovoltaic modules. The applicability of the methodology could be confirmed by means of interviews with the Project owner representatives, physical site visit /24/ and document review. The applied methodology is correctly quoted and is identical to the version available on the UNFCCC website. The applied version of the baseline and monitoring methodology /B01/ is valid at the time of submission of the PSF for global stakeholder consultation. All applicability criteria in the methodology are assessed in the below table:

Applicability criteria of the methodology (ACM0002, Version 21.0)	Justification in the PSF by PO	GCC Project Verification body assessment												
<p>This methodology is applicable to grid-connected renewable power generation project activities that: (a) install Greenfield power plant; (b) involve a capacity addition to (an) existing plant(s); (c) involve a retrofit of (an) existing plant(s)/unit(s); (d) involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) involve a replacement of (an) existing plant(s)/unit(s)</p>	<p>The project activity is a newly installed green field solar energy-based electricity generation project connected to the National grid. Therefore, it confirms to the said criteria.</p>	<table border="1" data-bbox="962 409 1497 801"> <thead> <tr> <th>Parameters</th> <th>Project Specification</th> <th>Verified document</th> </tr> </thead> <tbody> <tr> <td>Type of project activity</td> <td>Greenfield solar project</td> <td rowspan="3">EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.</td> </tr> <tr> <td>Category</td> <td>Renewable energy</td> </tr> <tr> <td>Project capacity (AC)</td> <td>28.05 MW</td> </tr> </tbody> </table> <p>Hence the methodology is applicable to the proposed project activity.</p>			Parameters	Project Specification	Verified document	Type of project activity	Greenfield solar project	EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.	Category	Renewable energy	Project capacity (AC)	28.05 MW
Parameters	Project Specification	Verified document												
Type of project activity	Greenfield solar project	EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.												
Category	Renewable energy													
Project capacity (AC)	28.05 MW													
<p>In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable power generation project activities that: (a) Integrate BESS with a Greenfield power plant; (b) Integrate a BESS together with implementing a capacity addition to (an) existing solar photovoltaic<sup>1</sup> or wind power plant(s)/unit(s); (c) Integrate a</p>	<p>The project activity is the installation of a new grid-connected renewable solar power project and does not involve the integration of a Battery Energy Storage System (BESS). This condition is not applicable for the project activity.</p>	<table border="1" data-bbox="962 1267 1497 1693"> <thead> <tr> <th>Parameters</th> <th>Project Specification</th> <th>Verified document</th> </tr> </thead> <tbody> <tr> <td>Type of project activity</td> <td>Greenfield solar project without BESS integration.</td> <td rowspan="3">EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.</td> </tr> <tr> <td>Category</td> <td>Renewable energy</td> </tr> <tr> <td>Project capacity (AC)</td> <td>28.05 MW</td> </tr> </tbody> </table> <p>Hence, the applicability criteria is not applicable to the proposed project activity.</p>			Parameters	Project Specification	Verified document	Type of project activity	Greenfield solar project without BESS integration.	EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.	Category	Renewable energy	Project capacity (AC)	28.05 MW
Parameters	Project Specification	Verified document												
Type of project activity	Greenfield solar project without BESS integration.	EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.												
Category	Renewable energy													
Project capacity (AC)	28.05 MW													

	<p>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).</p>														
	<p>The methodology is applicable under the following conditions:                  (a) 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 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</p>	<p>The project activity is the installation of a new solar power plants without BESS integration. Therefore, the said criterion is not applicable.</p>	<p>The project activity is the Greenfield solar project.</p> <table border="1" data-bbox="962 927 1497 1263"> <thead> <tr> <th>Parameters</th> <th>Project Status</th> <th>Verified document</th> </tr> </thead> <tbody> <tr> <td>Any Capacity addition?</td> <td>Not applicable</td> <td rowspan="4">EPC /9/, CIFSR /27/, and the commissioning certificates /08/.</td> </tr> <tr> <td>Any Retrofits?</td> <td>Not applicable</td> </tr> <tr> <td>Any Rehabilitation?</td> <td>Not applicable</td> </tr> <tr> <td>Any replacement</td> <td>Not applicable</td> </tr> </tbody> </table> <p>Hence, the applicability criteria is not applicable to the proposed project activity.</p>	Parameters	Project Status	Verified document	Any Capacity addition?	Not applicable	EPC /9/, CIFSR /27/, and the commissioning certificates /08/.	Any Retrofits?	Not applicable	Any Rehabilitation?	Not applicable	Any replacement	Not applicable
Parameters	Project Status	Verified document													
Any Capacity addition?	Not applicable	EPC /9/, CIFSR /27/, and the commissioning certificates /08/.													
Any Retrofits?	Not applicable														
Any Rehabilitation?	Not applicable														
Any replacement	Not applicable														

	<p>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;</p> <p>(c) In case of Greenfield 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);</p> <p>(d) The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies 2 may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions</p>		
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	<p>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 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.</p>											
	<p>In case of hydro power plants, one of the following conditions shall apply: (a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or</p>	<p>The project activity is the installation of solar power plants/units. Therefore, the said criteria is not applicable.</p>	<table border="1"> <thead> <tr> <th>Parameters</th> <th>Project Specification</th> <th>Verified document</th> </tr> </thead> <tbody> <tr> <td>Type of project activity</td> <td>Greenfield solar project</td> <td rowspan="3">EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.</td> </tr> <tr> <td>Category</td> <td>Renewable energy</td> </tr> <tr> <td>Project capacity (AC)</td> <td>28.05 MW</td> </tr> </tbody> </table>	Parameters	Project Specification	Verified document	Type of project activity	Greenfield solar project	EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.	Category	Renewable energy	Project capacity (AC)
Parameters	Project Specification	Verified document										
Type of project activity	Greenfield solar project	EPC /09/, power purchase agreement signed /11/, and the commissioning certificates /08/.										
Category	Renewable energy											
Project capacity (AC)	28.05 MW											

	<p>(b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7) is greater than 4 W/m<sup>2</sup>; or</p> <p>(c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m<sup>2</sup>; or</p> <p>(d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (7), is lower than or equal to 4 W/m<sup>2</sup>, all of the following conditions shall apply:</p> <p>(i) The power density calculated using the total installed capacity of the integrated project, as per equation (8), is greater than 4 W/m<sup>2</sup>; (ii) Water flow between reservoirs is not used by any other</p>		<p>CC IPL project verification team confirmed the same i.e., the project activity is Greenfield solar power plant, during the onsite visit /24/. Hence this condition is not applicable to the proposed project activity.</p>
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	<p>hydropower unit which is not a part of the project activity;                  (iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m<sup>2</sup> shall be:                  a. Lower than or equal to 15 MW; and                  b. Less than 10 per cent of the total installed capacity of integrated hydro power project.</p>		
	<p>In the case of integrated hydro power projects, project proponent shall:</p> <p>(a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or</p> <p>(b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific</p>	<p>The project activity is the installation of a solar power plants/units. Therefore, the said criterion is not applicable.</p>	<p>The proposed project activity is not a hydro power project.</p> <p>The proposed activity is a Greenfield grid connected solar power project. CCIPL project verification team confirmed the same during the onsite visit /24/. Hence this condition is not applicable to the proposed project activity.</p>



	<p>combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability indifferent seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum five years prior to implementation of CDM project activity.</p>											
	<p>The methodology is not applicable to:</p> <p>(a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site;</p> <p>(b) Biomass fired power plants;</p>	<p>(a) The project activity is the installation of a new solar power plant/unit which does not involve switching of fossil fuels.</p> <p>(b) The project activity is the installation of new solar power plant and not biomass fired power plant.</p> <p>Therefore, the said criterion is not applicable.</p>	<table border="1"> <thead> <tr> <th>Parameters</th> <th>Project Status</th> <th>Verified document</th> </tr> </thead> <tbody> <tr> <td>Any fossil fuel switching activity?</td> <td>Not applicable</td> <td>EPC /9/, CIFSR /27/, and the commissioning certificates /08/.</td> </tr> <tr> <td>Biomass fired power plant involved in the project activity?</td> <td>Not applicable</td> <td></td> </tr> </tbody> </table> <p>CC IPL project verification team confirmed the same during the onsite visit /24/. Hence this condition is not applicable to the proposed project activity.</p>	Parameters	Project Status	Verified document	Any fossil fuel switching activity?	Not applicable	EPC /9/, CIFSR /27/, and the commissioning certificates /08/.	Biomass fired power plant involved in the project activity?	Not applicable	
	Parameters	Project Status	Verified document									
Any fossil fuel switching activity?	Not applicable	EPC /9/, CIFSR /27/, and the commissioning certificates /08/.										
Biomass fired power plant involved in the project activity?	Not applicable											
<p>In the case of</p>	<p>The project</p>											

	retrofits, rehabilitations, 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”.	activity is the installation of new solar power plant/unit that does not involve retrofits, rehabilitations, replacements, or capacity additions. Therefore, the said criterion is not applicable.	Parameters	Project Status	Verified document
			Any Capacity addition?	Not applicable	Confirmed from EPC /9/, CIFSR /27/, and the commissioning certificates /08/.
Any Retrofits?	Not applicable				
Any Rehabilitation?	Not applicable				
Any replacement	Not applicable				
			<p>CCIPL project verification team confirmed the same during the onsite visit /24/. Hence this condition is not applicable to the proposed project activity.</p>		
	<p><b>Applicability criteria of the Tool 05, Version 3.0</b></p> <p>If emissions are calculated for electricity consumption, the tool is only applicable if one out of the following three scenarios applies to the sources of electricity consumption:</p> <p>(a) Scenario A: Electricity consumption from the grid. The electricity is purchased from the grid only, and either no captive power plant(s) is/are installed at the site of electricity consumption or, if any captive power exists on site, it is either not operating or it is not physically able to provide electricity to the electricity consumer;</p> <p>(b) Scenario B: Electricity consumption from (an) off-grid fossil fuel captive power plant(s). One or more fossil fuel fired captive power plants are installed at the site of the electricity consumer</p>	<p><b>Justification in the PSF</b></p> <p>The project has been importing electricity from the grid. The electricity consumption of this project is purchased from the grid only. And scenario A is selected.</p> <p>Hence, applicable.</p>	<p><b>GCC assessment</b></p> <p>Project activity has installed bidirectional energy meters and the net electricity is calculated by import subtracted from export and net electricity value is used to calculate ERs. Hence, Condition is appropriately applicable by PO.</p>	<p><b>Verifier</b></p>	

	<p>and supply the consumer with electricity. The captive power plant(s) is/are not connected to the electricity grid; or</p> <p>(c) Scenario C: Electricity consumption from the grid and (a) fossil fired captive power plant(s). One or more fossil fuel fired captive power plants operate at the site of the electricity consumer. The captive power plant(s) can provide electricity to the electricity consumer. The captive power plant(s) is/are also connected to the electricity grid. Hence, the electricity consumer can be provided with electricity from the captive power plant(s) and the grid</p>		
	<p>This tool can be referred to in methodologies to provide procedures to monitor amount of electricity generated in the project scenario, only if one out of the following three projects scenarios applies to the recipient of the electricity generated:</p> <p>(a) Scenario I: Electricity is supplied to the grid;</p> <p>(b) Scenario II: Electricity is supplied to consumers/electricity consuming facilities; or</p> <p>(c) Scenario III: Electricity is supplied to the grid and consumers/electricity consuming facilities</p>	<p>The electricity generated by the project is supplied to the grid. The scenario I is selected.</p> <p>Hence the said criterion is applicable.</p>	<p>PO has provided commissioning certificate /08/ and electricity generation license /06/ from EVN which establish that electricity generated from project activity is fed to the grid and the same is verified during onsite visit /24/.</p>
	<p>This tool is not applicable in cases where captive renewable power generation technologies are installed to provide electricity in project activity, in the baseline scenario or to sources of leakage. The tool only accounts for CO<sub>2</sub> emissions</p>	<p>The project is a grid-connected solar power project. The tool is used to calculate the CO<sub>2</sub> emissions from the electricity consumption from the grid.</p> <p>Hence it is applicable.</p>	<p>Project activity has installed bidirectional energy meters, and the net electricity is calculated by import subtracted from export and net electricity value is used to calculate ERs. Hence, Condition is appropriately applicable by PO.</p>

	<b>Applicability criteria of the Tool 07, Version 7.0</b>	<b>Justification in the PSF</b>	<b>GCC assessment</b>	<b>Verifier</b>
	<p>This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity that is where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been provided by the grid (e.g. demand-side energy efficiency projects).</p>	<p>The project activity is a Greenfield solar power generation plant and hence, according to the applied methodology, the baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in "Tool 07: "Tool to calculate the emission factor for an electricity system", version 07.0.</p>	<p>The project activity involved the construction and operation of 28.05 MW solar power plant in Viet Nam. The electricity thus generated is being sold to Vietnamese national grid. In the absence of the project activity, the same amount of electricity (grid electricity) would be generated in the Viet Nam national grid—EVN (Viet Nam Electricity). Therefore, combined margin calculation applies to the Viet Nam national grid.</p>	
	<p>Under this tool, the emission factor for the project electricity system can be calculated either for grid power plants only or, as an option, can include off-grid power plants. In the latter case, two sub-options under the step 2 of the tool are available to the project participants, i.e. option II-a and option II-b. If option II-a is chosen, the conditions specified in "Appendix 1: Procedures related to off-grid power generation" should be met. Namely, the total capacity of off-grid power plants (in MW) should be at least 10 per cent of the total capacity of grid power plants in the electricity system; or the total electricity generation by off-grid power plants (in MWh) should be at least 10 per cent of the total electricity generation by grid power plants in the electricity system; and that factors which negatively affect the reliability and stability of the grid are primarily due to constraints in generation and not to other aspects such as transmission capacity.</p>	<p>Since the project activity is grid connected solar power project, this condition is applicable and the emission factor has been calculated accordingly. Since the project activity is grid connected solar power project, this condition is applicable. Emission factor calculation was done in line with Tool 07 "Tool to calculate the emission factor for an electricity system", version 07.0 using data from Department of Climate Change—Ministry of Natural Resources and Environment, "Research and develop emission factor (EF) of Viet Nam's electricity grid</p>	<p>Project owner has calculated the emission factor applying this applicability condition. This is accepted by the project verification team.</p>	

		in 2021 (attached CV 1278/BDKH-TTBVTOD)” and as per the tool, calculation of emission factor has been only considered grid connected plants.	
	In case of CDM projects the tool is not applicable if the project electricity system is located partially or totally in an Annex I country.	The project activity is located in Viet Nam, a non-Annex I country. Therefore, this tool is applicable for the project activity.	The electricity generated from the GCC project will be sold (100%) to Viet Nam National grid. Since the project electricity system is located in Viet Nam which is not an Annex I country (Date of ratification of Kyoto protocol by Viet Nam = 25 <sup>th</sup> September 2002), the project verification team has accepted the application of the tool to calculate the grid emission factor.
	Under this tool, the value applied to the CO <sub>2</sub> emission factor of bio fuels is zero	Project Owner has used the combined margin grid emission factor from Department of Climate Change – Ministry of Natural Resources and Environment, “Research and develop emission factor (EF) of Viet Nam’s electricity grid in 2020 (attached with OL 1316/BDKH-TTBVTOD published on 03/01/2022 which has been calculated in line with Tool 07, “Tool to calculate the emission factor for an electricity system”, version 07.0 where the tool considers CO <sub>2</sub> emission of Biofuel as zero. Hence Project Owner has considered the same. Therefore, this criterion is not applicable for the project activity.	The project activity is a grid connected solar power project. There is no biofuels related activity.

<b>Applicability criteria of the tool 1, Version 7.0</b>	<b>Justification in the PSF</b>	<b>GCC Verifier assessment</b>
<p>The use of the “Tool for the demonstration and assessment of additionality” is not mandatory for project owners when proposing new methodologies. Project owners may propose alternative methods to demonstrate additionality for consideration by the Executive Board. They may also submit revisions to approved methodologies using the additionality tool.</p>	<p>The project owner is not proposing any new methodology and applied this tool for demonstration of additionality with reference to the applied methodology ACM0002 “Grid-connected electricity generation from renewable sources”, version 21.0. Refer to section B.5 of the PSF for the detailed applicability of this tool and additionality assessment. Hence this tool is applicable.</p>	<p>One alternative that would be more attractive than the project activity, has been defined in section B.5 of the PSF. Hence, the applicability criterion was found to be met.</p>
<p>Once the additionally tool is included in an approved methodology, its application by project owners using this methodology is mandatory.</p>	<p>In line with the methodology requirement Project owner has applied this tool for the demonstration of additionality assessment. Hence this tool is applicable</p>	<p>Project owner has applied the Tool for the demonstration and assessment of additionality, version 7 /B05/, which is in line with the methodology ACM0002 Grid-connected electricity generation from renewable sources, version 21 /B01/</p>
<b>Applicability criteria of the tool 24, Version 3.1</b>	<b>Justification in the PSF</b>	<b>GCC Verifier assessment</b>
<p>This methodological tool is applicable to project activities that apply the methodological tool “Tool for the demonstration and assessment of additionality”, the methodological tool “Combined tool to identify the baseline scenario and demonstrate additionality”, or baseline and monitoring methodologies that use the common practice test for the demonstration of additionality.</p>	<p>Project activity applies Tool 01 “Tool for the demonstration and assessment of additionality”, version 07.0.0. Hence this tool is applicable.</p>	<p>The applicability criterion is met as the project activity applies the methodological tool “Tool for the demonstration and assessment of additionality.” /B05/</p>
<p>In case the applied approved baseline and monitoring methodology defines approaches for the conduction of the common practice test that are different from those described in this methodological tool, the requirements contained in the methodology shall prevail.</p>	<p>Applied methodology ACM0002 “Grid-connected electricity generation from renewable sources”, version 21.0 doesn't specify any approach for the demonstration</p>	<p>The applied methodology is ACM0002, Version 21. /B01/ It doesn't define approaches for the conduction of the common practice test that are different from those described in this</p>

		<p>of common practice analysis. As per the methodology the additionality including common practice analysis has been demonstrated as per the Tool 01: “Tool for the demonstration and assessment of additionality”, version 07.0.0 and Tool 24: “Common Practice Analysis”, version 3.1. Hence Justified.</p>	<p>methodological tool 24 Common Practice Analysis version 3.1./B06/</p>									
	<table border="1"> <thead> <tr> <th data-bbox="507 741 911 808">Applicability criteria of the tool 27, Version 12.0</th> <th data-bbox="911 741 1198 808">Justification in the PSF</th> <th data-bbox="1198 741 1505 808">GCC Verifier assessment</th> </tr> </thead> <tbody> <tr> <td data-bbox="507 808 911 1420"> <p>This methodological tool is applicable to project activities that apply the methodological tool “Tool for the demonstration and assessment of additionality”, the methodological tool “Combined tool to identify the baseline scenario and demonstrate additionality”, the guidelines “Non-binding best practice examples to demonstrate additionality for SSC project activities”, or baseline and monitoring methodologies that use the investment analysis for the demonstration of additionality and/or the identification of the baseline scenario.</p> </td> <td data-bbox="911 808 1198 1420"> <p>Project activity applies Tool 01 “Tool for the demonstration and assessment of additionality”, version 07.0.0. Hence this tool is applicable.</p> </td> <td data-bbox="1198 808 1505 1420"> <p>The applicability criterion is met as the project activity applies the methodological tool “Demonstration of additionality of small-scale project activities.”/B05/</p> </td> </tr> <tr> <td data-bbox="507 1420 911 2033"> <p>In case the applied approved baseline and monitoring methodology contains requirements for the investment analysis that are different from those described in this methodological tool, the requirements contained in the methodology shall prevail.</p> </td> <td data-bbox="911 1420 1198 2033"> <p>Applied methodology ACM0002 “Grid-connected electricity generation from renewable sources”, version 21.0 doesn’t specify any approach for the demonstration of Investment analysis. As per the methodology the additionality including investment analysis has been demonstrated as per the Tool 01: “Tool for the demonstration and assessment of additionality” version 07.0.0 and Tool 27:</p> </td> <td data-bbox="1198 1420 1505 2033"> <p>The applied methodology is ACM0002, Version 21.0 /B01/ It doesn’t contain requirements for the investment analysis that are different from those described in this methodological tool 27 Investment Analysis version 12.0./B07/</p> </td> </tr> </tbody> </table>	Applicability criteria of the tool 27, Version 12.0	Justification in the PSF	GCC Verifier assessment	<p>This methodological tool is applicable to project activities that apply the methodological tool “Tool for the demonstration and assessment of additionality”, the methodological tool “Combined tool to identify the baseline scenario and demonstrate additionality”, the guidelines “Non-binding best practice examples to demonstrate additionality for SSC project activities”, or baseline and monitoring methodologies that use the investment analysis for the demonstration of additionality and/or the identification of the baseline scenario.</p>	<p>Project activity applies Tool 01 “Tool for the demonstration and assessment of additionality”, version 07.0.0. Hence this tool is applicable.</p>	<p>The applicability criterion is met as the project activity applies the methodological tool “Demonstration of additionality of small-scale project activities.”/B05/</p>	<p>In case the applied approved baseline and monitoring methodology contains requirements for the investment analysis that are different from those described in this methodological tool, the requirements contained in the methodology shall prevail.</p>	<p>Applied methodology ACM0002 “Grid-connected electricity generation from renewable sources”, version 21.0 doesn’t specify any approach for the demonstration of Investment analysis. As per the methodology the additionality including investment analysis has been demonstrated as per the Tool 01: “Tool for the demonstration and assessment of additionality” version 07.0.0 and Tool 27:</p>	<p>The applied methodology is ACM0002, Version 21.0 /B01/ It doesn’t contain requirements for the investment analysis that are different from those described in this methodological tool 27 Investment Analysis version 12.0./B07/</p>		
Applicability criteria of the tool 27, Version 12.0	Justification in the PSF	GCC Verifier assessment										
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<p>In case the applied approved baseline and monitoring methodology contains requirements for the investment analysis that are different from those described in this methodological tool, the requirements contained in the methodology shall prevail.</p>	<p>Applied methodology ACM0002 “Grid-connected electricity generation from renewable sources”, version 21.0 doesn’t specify any approach for the demonstration of Investment analysis. As per the methodology the additionality including investment analysis has been demonstrated as per the Tool 01: “Tool for the demonstration and assessment of additionality” version 07.0.0 and Tool 27:</p>	<p>The applied methodology is ACM0002, Version 21.0 /B01/ It doesn’t contain requirements for the investment analysis that are different from those described in this methodological tool 27 Investment Analysis version 12.0./B07/</p>										

		"Investment Analysis" version 12.0. Hence Justified.	
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### D.3.2 Clarification on applicability of methodology, tool and/or standardized baseline

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	No findings are raised.
<b>Conclusion</b>	No clarification on the applicability of methodology, tool or standardized baseline from the PO. GCC Verifier has assessed the PSF /01/ and concluded that no clarification required on the applicability of methodology, tool or standardized baseline.

### D.3.3 Project boundary, sources and GHGs

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	No findings are raised.
<b>Conclusion</b>	<p>According to the approved baseline and monitoring methodology "ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0" /B01/, the project boundary is "the spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the CDM project power plant is connected to". The physical boundary of the project activity identified by the project owner has been cross verified by site visit observation /24/, commissioning report for the power plant /08/ and power purchase agreement /11/.</p> <p>In section B.3 of the PSF /01/, project boundary has been adequately stated in figure 4 and table. Hence, the project boundary includes the solar power plant and the other power plants which connected to the related electricity system and the EVN – Viet Nam national grid.</p>

### D.3.4 Baseline scenario

<b>Means of Project Verification</b>	Desk Review and Interviews				
<b>Findings</b>	No findings are raised.				
<b>Conclusion</b>	<table border="1"> <thead> <tr> <th>Methodology requirement baseline</th> <th>GCC Project Verifier Opinion</th> </tr> </thead> <tbody> <tr> <td>According to the approved baseline methodology "ACM0002 Grid-connected electricity generation from renewable sources", Version 21.0 /B01/, "The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid."</td> <td>Project activity involves generation of electricity using solar power plant and selling it to Viet Nam National grid as confirmed through the power purchase agreement /11/ and commissioning report /08/. In the absence of this project activity, same amount of electricity would have been generated by the operation of existing/proposed grid connected fossil fuel-based power plants. The same was cross checked and confirmed by the grid emission factor data published by Department of Climate Change – Ministry of Natural Resources and Environment /25/.</td> </tr> </tbody> </table>	Methodology requirement baseline	GCC Project Verifier Opinion	According to the approved baseline methodology "ACM0002 Grid-connected electricity generation from renewable sources", Version 21.0 /B01/, "The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid."	Project activity involves generation of electricity using solar power plant and selling it to Viet Nam National grid as confirmed through the power purchase agreement /11/ and commissioning report /08/. In the absence of this project activity, same amount of electricity would have been generated by the operation of existing/proposed grid connected fossil fuel-based power plants. The same was cross checked and confirmed by the grid emission factor data published by Department of Climate Change – Ministry of Natural Resources and Environment /25/.
Methodology requirement baseline	GCC Project Verifier Opinion				
According to the approved baseline methodology "ACM0002 Grid-connected electricity generation from renewable sources", Version 21.0 /B01/, "The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid."	Project activity involves generation of electricity using solar power plant and selling it to Viet Nam National grid as confirmed through the power purchase agreement /11/ and commissioning report /08/. In the absence of this project activity, same amount of electricity would have been generated by the operation of existing/proposed grid connected fossil fuel-based power plants. The same was cross checked and confirmed by the grid emission factor data published by Department of Climate Change – Ministry of Natural Resources and Environment /25/.				



	<p>The relevant national and/or sectoral policies, regulations and circumstances are taken into account during the determination of baseline scenario.</p>	<p>Project Owner has considered all the applicable national and sectoral level policies in demonstrating the regulatory compliance of the of the project and baseline scenario.</p> <p>National/sectoral policies &amp; regulations:</p> <ul style="list-style-type: none"> <li>• Electricity Law No. 28/2004/QH11 of 2004.<sup>7</sup></li> <li>• Circular No. 16/2017/TT-BCT.<sup>8</sup></li> <li>• Decision 1264/QD-TTg 2019 – Formulation task of National Electricity Development Plan in the period of 2021 – 2030 with the vision toward 2045.<sup>9</sup></li> </ul> <ol style="list-style-type: none"> <li>1. Circular No. 18/2020/TT-BCT – Project development and sample of electricity sale contract applicable to solar power projects<sup>10</sup>.</li> <li>2. Circular No. 05/2019/TT-BCT – Development of Solar Power Projects and Standard Form Power Purchase Agreement (PPA).<sup>11</sup></li> <li>3. Decision No. 13/2020/QD-TTg – Incentives for development of solar energy in Viet Nam.<sup>12</sup></li> </ol> <p>According to all the referred policies and regulations the baseline scenario is in compliance with all applicable legal and regulatory requirements.</p>
	<p>The baseline scenario has been adequately stated as: The baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in “TOOL07: Tool to calculate the emission factor for an electricity system”version 07.0. /B04/</p> <p>The following ex ante parameters and assumptions were used to estimate baseline emissions of the project activity.</p> <p>Combined margin CO<sub>2</sub> emission factor for the project electricity system in year y (EF<sub>grid,CM,y</sub>) – The value has been calculated and published by Department of Climate Change – Ministry of Natural Resources and Environment, 2020. The value is calculated as per the TOOL 07: “Tool to calculate the emission factor for an electricity</p>	

<sup>7</sup><https://policy.asiapacificenergy.org/sites/default/files/ELECTRICITY%20LAW%20%28No.%2028%3A2004%3AQH11%29%20.pdf>

<sup>8</sup><https://thuvienphapluat.vn/van-ban/EN/Thuong-mai/Circular-16-2017-TT-BCT-project-development-model-Power-Purchase-Agreements-solar-power-projects/362037/tieng-anh.aspx>

<sup>9</sup> [Resolution 55-NQ/TW 2020 orienting Vietnam's National Energy Development Strategy \(thuvienphapluat.vn\)](https://thuvienphapluat.vn/van-ban/EN/Dau-tu/Resolution-55-NQ/TW-2020-orienting-Vietnam's-National-Energy-Development-Strategy)

<sup>10</sup><https://thuvienphapluat.vn/van-ban/EN/Dau-tu/Circular-18-2020-TT-BCT-sample-of-electricity-sale-contract-applicable-to-solar-power-projects/449613/tieng-anh.aspx>

<sup>11</sup><https://thuvienphapluat.vn/van-ban/Thuong-mai/Circular-05-2019-TT-BCT-amendments-to-Circular-development-of-solar-power-projects-425198.aspx>

<sup>12</sup> <https://thuvienphapluat.vn/van-ban/Tai-nguyen-Moi-truong/Quyết-dinh-13-2020-QD-TTg-co-che-khuyen-khich-phat-trien-dien-mat-troi-tai-Viet-Nam-439160.aspx>

	<p>system” (Version 07.0)/B04/ This was found in accordance with the methodology/B01/ and as per para. 8(a) of clarification No. 03 /B02-7/.</p> <p>CC IPL project verification team was able to verify all the documented evidence listed above during the GCC Project Verification process and can confirm that:</p> <ul style="list-style-type: none"> <li>• All the assumptions and data used by the project owners are listed in the PSF, including their references and sources.</li> <li>• All documentation used /02/ /08/ /11/ /17/ /27/ are relevant for establishing the baseline scenario and correctly quoted and interpreted in the PSF.</li> <li>• Relevant national and/or sectoral policies and circumstances are considered and listed in the PSF /01/;</li> </ul> <p>The approved baseline methodology ACM0002 v21.0 /B01/, has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed GCC project activity.</p>
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### D.3.5 Demonstration of additionality

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	CL 03, CAR 05 & CAR 06 are raised and closed satisfactorily. Please refer to Appendix 4 for further details.
<b>Conclusion</b>	<p>Project owner has described the Demonstration of additionality according to the GCC Project Standard Version 03.1./B02-1/ In section B.5 of the PSF/01/, two components are applied for the demonstration of additionality.</p> <p>(i) Legal Requirement Test: The project activity is a Type A project and requires undergoing a Legal Requirement Test. However, the projects as in the project activity are not mandated by law or regulations and are entirely a voluntary action. The project complies as per paragraph 46 of GCC Project Standard V3.1./B02-1/</p> <p>(ii) Additionality Test: To cover this requirement from the GCC Project Standard 3.1 /B02-1/ section 6.4.8, paragraph 45 and as per the applied methodology ACM0002 version 21.0 /B01/, additionality of the following project activity is demonstrated and assessed by the latest version of Tool 01 “Tool for demonstration and assessment of Additionality”, version 07.0 /B05/. The project owner has adopted the stepwise approach for demonstrating and assessing the additionality of the project activity as follows:</p> <p><b>Step 1: Identification of alternatives to the project activity consistent with current laws and regulations</b></p> <p><b>Sub-step 1a: Define alternatives to the project activity:</b> Alternative 1: The proposed project activity undertaken without being registered as a GCC project activity. Alternative 2: No project activity is undertaken.</p> <p>The first alternative, which is the implementation of the project without carbon revenue, is not financially attractive as discussed in the investment analysis section below. The second alternative (Scenario 2) is the baseline scenario and implementation of the proposed project as a GCC project activity would be additional to this scenario. No project activity is undertaken and continuation of current scenario. In this scenario, due to increasing electricity demand new power plants should be constructed which includes mainly thermal power plants (baseline scenario). Implementation of the project is additional to the baseline scenario which is alternative 2 above and therefore reduces the emissions.</p> <p><b>Outcome of Step 1a</b></p>

Continuation of the current situation is not considered as a realistic alternative due to increasing electricity demand therefore new power plants should be constructed which includes mainly thermal power plants. Implementation of the project is additional to the baseline scenario which is an alternative 2 above and therefore reduces the emissions.

**Sub-step 1b: Consistency with mandatory laws and regulations:**

There are no laws or regulations in Viet Nam issued by Government of Viet Nam, that restrict implementation of Solar power project. Further, no law or regulation issued by Government of Viet Nam, which mandates project owner to invest in solar power project.

The resultant alternatives to the project as outlined in Step 1a are in compliance with the applicable laws and regulations.

**Outcome of Step 1b**

Mandatory legislation and regulations for each alternative are taken into account in sub-step 1b. Based on the above analysis, the proposed project activity is not the only alternative amongst the project owners that is in compliance with mandatory regulations. Therefore, the proposed GCC project activity is considered as additional.

**Step 2: Investment analysis**

In this section it is demonstrated that the project activity is not financially feasible without the revenue from the sale of ACCs. This is demonstrated in the following sections as per TOOL 27: "Investment analysis" (Version 12.0) /B07/. No public funding or ODA /30/ are associated with the implementation of this GCC project activity.

PO has decided to invest in the project activity and prepared the CFSIR (Construction Investment Feasibility Study Report) /27/ in the month of May 2018 and submitted to Vietnamese government for approval along with Basic design Report /37/. The project got approval from the Vietnamese government on 31/05/2018 as an approval on the submitted Basic Design Report /37/ with some adjustment recommended. In line with the adjustments provided in the approval, the CIFSR had been revised. Since the approval and the revised CIFSR has been available in the same time frame, the finalized CIFSR /27/ of June 2018 has been used as the source for financial input parameters. PO has considered the investment decision date of the project as 31/05/2018 which is the date for basic design approval /28/ by the Vietnamese government. The input parameters for the calculation of financial indicators have been taken from the CIFSR /27/ which was available during the same time frame to the investment decision date. Project owner has considered the input values from the CIFSR dated June 2018 /27/.

Following are the chronological events to showcase the milestones of the project activity.

Sl. No.	Chronology of Events	Date
01	Approval of Basic Design Report approved by Ministry of Industry and Trade Department of Electricity and Renewable Energy (Investment Decision Date)	31/05/2018
02	Preparation of Final Construction Investment Feasibility Study Report (CIFSR)	June 2018
03	Signing of EPC Contract	10/11/2018
04	Signing of Power Purchase Agreement	29/11/2018
05	Project Commissioning Date	09/05/2019

Hence, the consideration of basic design approval date i.e., 31/05/2018 as the investment

	<p>decision date is appropriate.</p> <p><b>Sub-step 2a: Determine appropriate analysis method.</b></p> <p>As the project is selling the electricity generated, it will generate financial benefits other than carbon revenue related income. Hence, Option I is not applicable. Option II is applicable when the alternatives have the same kind of investment, but for this project activity alternative is the supply of electricity through other power plants or new power plants which use conventional method to supply electricity through national grid. Hence, Option II is also not applicable.</p> <p>The PO has chosen to demonstrate investment analysis using Option III: Benchmark Analysis.</p> <p><b>Sub-step 2b: Option III. Apply benchmark analysis</b></p> <p>Post tax equity IRR has been chosen as the financial indicator for the demonstration of financial unviability for the proposed project activity. Since, the PO is demonstrating financial unattractiveness of the project and the project cost involves both equity and debt, post tax equity IRR is considered to be the appropriate option to indicate financial unattractiveness; and the same is accepted by the verification team.</p> <p>As per para 15 of Investment analysis /B07/, “The applied benchmark shall be appropriate to the type of IRR calculated. Local commercial lending rates or WACC are appropriate benchmarks for a project IRR. Required/expected returns on equity are appropriate benchmarks for an equity IRR. Benchmarks supplied by relevant national authorities are also appropriate. The GCC Verifier shall validate that the benchmarks used are applicable to the project activity and the type of IRR calculation presented.”</p> <p>Further para 16 of the tool 27 states that “In situations where an investment analysis is carried out in nominal terms and the available IRR benchmarks are in real terms, project owners shall convert the real term values of benchmarks to nominal values by adding the inflation rate. The inflation rate shall be obtained from the inflation forecast of the central bank of the host country for the duration of the crediting period. If this information is not available, the target inflation rate of the central bank shall be used. If this information is also not available, then the average forecasted inflation rate for the host country published by the IMF (International Monetary Fund World Economic Outlook) or the World Bank for the next five years after the start of the project activity shall be used”. The post tax equity IRR calculated is nominal equity IRR (post tax). Accordingly, Project owner converted the default benchmark which is in real terms into nominal terms by using the following equation;</p> $\text{Nominal Benchmark} = \{(1 + \text{Real Benchmark}) \times (1 + \text{Inflation rate})\} - 1$ <p>The GCC Project Verification team referred the book ‘Corporate Finance: Theory and Practice’, 2<sup>nd</sup> edition, by ‘Aswath Damodaran’<sup>13</sup>. In page 320 of the book, the same equation is mentioned for converting real into nominal values. Hence the GCC Project Verification team considers the above equation as appropriate for converting real benchmark into nominal benchmark.</p> <p>The assessment team has verified all the above said documents and confirmed that the benchmark identified to compare the financial attractiveness of the project activity is appropriate.</p> <p><b>Sub-step 2c: Calculation and comparison of financial indicators</b></p> <p>For calculation of financial indicator, all relevant costs and revenues were found to be included in the IRR sheet provided by the PO. All assumptions and estimates used for input values were checked against the relevant sources.</p> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="background-color: #cccccc;">Parameters</td> <td style="background-color: #cccccc;">Project’s Specifics</td> <td style="background-color: #cccccc;">GCC Project Verifier opinion</td> </tr> </table>	Parameters	Project’s Specifics	GCC Project Verifier opinion
Parameters	Project’s Specifics	GCC Project Verifier opinion		

<sup>13</sup> [Corporate Finance: Theory and Practice, 2nd Edition | Wiley](#)

	Investment decision date	31/05/2018	Based on Basic Design Approval /28/.								
	Type of Benchmark	Post tax equity IRR/03/	As per the para 15 of Tool 27: Investment analysis, version 12.0 /B07/ 'Required/expected returns on equity are appropriate benchmarks for an equity IRR'.								
	Default Benchmark value	11.73% default for Viet Nam in Appendix Tool 27: Investment analysis.	Project owner has chosen the default for Viet Nam as per version 12 of Tool 27/B07/Appendix of EB 112, Annex 2 to demonstrate additionality, which is latest available at the time of global stakeholder consultation.								
	Inflation rate (Median 5 year)	4% sourced from International Monetary Fund database <sup>14</sup> : April 2018	The value has been sourced from the International Monetary Fund database: April 2018. The same found appropriate as there is no inflation forecast or the target inflation rate published by the central bank of the host country. The value applied appropriate as per the reference. Hence, GCC Verifier has confirmed that it is in line with the para of tool 27/B07/.								
	Benchmark value  Nominal Benchmark = $\frac{\text{Real Benchmark} \times (1 + \text{Inflation rate})}{1}$	16.20% Calculation  = $\frac{((1+0.1173) \times (1+0.04)) - 1}{1}$ = 16.1992% = 16.20%	Project owner has chosen the default for Viet Nam as per Appendix of EB 112, Annex 2 to demonstrate additionality, which is the latest available during the time global stakeholder consultation. Project owner has sourced five-year inflation Forecast for Viet Nam from IMF database available at the time of investment decision. CCIPL team verified all the above said details and documents; and confirmed that the benchmark identified to compare the financial attractiveness of the project activity is appropriate.								
<p>GCC project activity has a less favorable post tax Equity IRR than the benchmark, and hence the GCC project activity cannot be considered as financially attractive. The key data parameters used to calculate the post tax Equity IRR are tabulated below. These parameters have been sourced from the CIFSR /27/ which were available at the time frame of investment decision 31/05/2018. The Basic Design Report is approved /37/ by Viet Nam Government.</p> <p>Based on CIFSR /27/, which is the document available at the time frame of investment decision date, approved by the government of Viet Nam. The same is considered for consideration of input parameters. The basic design approval /28/ as per CIFSR /27/ received by PO is 28.05 MWac and 30.24 MWp.</p> <table border="1" data-bbox="438 1758 1433 1892"> <thead> <tr> <th>Parameter</th> <th>Unit</th> <th>Installed Value</th> <th>Assessment and cross checking</th> </tr> </thead> <tbody> <tr> <td>Total capacity</td> <td>MW</td> <td>28.05</td> <td>Verified against CIFSR /27/ of June 2018 and cross verified against the EPC</td> </tr> </tbody> </table>				Parameter	Unit	Installed Value	Assessment and cross checking	Total capacity	MW	28.05	Verified against CIFSR /27/ of June 2018 and cross verified against the EPC
Parameter	Unit	Installed Value	Assessment and cross checking								
Total capacity	MW	28.05	Verified against CIFSR /27/ of June 2018 and cross verified against the EPC								

<sup>14</sup> <https://www.imf.org/en/Publications/WEO/weo-database/2018/April/weo-report?c=582,&s=PCPIPCH,PCPIEPCH,&sy=2018&ey=2023&ssm=0&scsm=1&sc=0&ssd=1&ssc=0&sic=0&sort=country&ds=.&br=1>

	(AC)			contract /09/ and commissioning certificate /08/. Further, the same has been confirmed during onsite visit /24/.
	Total capacity (DC)	MWp	30.24	Verified against CIFSR /27/ of June 2018 and cross verified against the EPC contract /09/ and commissioning certificate /08/. Further, the same has been confirmed during onsite visit.
	Annual Net Generation	GWh	45.458	Verified against CIFSR /27/ of June 2018. The same is cross verified from the Electricity generation reports /16/ and found that the Annual Net Generation in the latest generation reports is within range of sensitivity analysis than the estimated Annual Net Generation. Hence, GCC Verifier confirms that the Annual Net Generation considered for the project activity is appropriate; hence acceptable.
	Project Lifetime	Years	25	The technical life of the solar panel/module is 25 years, and this has been confirmed from the technical specification provided by the technology supplier /09/. The same has been cross verified against the EPC contract /09/. Therefore, financial analysis carried for 25 years is acceptable.
	Annual Degradation factor	%	0.65	Verified against manufacturer specification /07/. Further, verification team has cross verified with the NREL report on Photovoltaic Degradation Rates — An Analytical Review <sup>15</sup> . The report covers nearly 2000 degradation rates all across the globe and degradation rates have a mean of 0.8% per year and a median of 0.5% per year. So, the value 0.68 is acceptable. Further, generation values have also subjected to sensitivity analysis.
	Tariff	USD/ kWh	0.0935	Verified against CIFSR /27/ of June 2018 and also decision of Vietnamese government about Development of Solar Power Projects in Viet Nam <sup>16</sup> on 11/04/2017. Further, project verification team has checked the report published by Institute for Energy Economics and Financial Analysis on Viet Nam solar tariff program <sup>17</sup> . As per the report mentions the tariff as USD 0.07 per kWh when the module efficiency is over 15%. The efficiency of the module is over 15% which is verified on the technical specification of module /07/. So, the value 0.0935 USD/KWh found appropriate. The same is cross verified with the power

<sup>15</sup> [STAT FAQs Part 2: Lifetime of PV Panels | State, Local, and Tribal Governments | NREL](#)

<sup>16</sup> [Microsoft Word - Decision 11 2017 on Solar FIT 2017-04-11 EN WORD \(asiapacificenergy.org\)](#)

<sup>17</sup> [Microsoft Word - Decision 11 2017 on Solar FIT 2017-04-11 EN WORD \(asiapacificenergy.org\)](#)

				purchase agreement signed with EVN /11/.
	Operation and Maintenance Cost per MW per year	USD Million/MW	0.02	PO has considered the O&M cost from CIFSR /27/ of June 2018. The value of O&M cost per MW which is Verified against publicly available VCS solar project of Viet Nam i.e., “PL1974- Srepok 1 Solar Power Project <sup>18</sup> ” and found that the per MW O&M cost is 0.016 Mn USD/MW. That is for 30.24 MW the value comes to be around 0.484 million USD per year. As per the assumption for investment analysis, the total O&M cost is 0.60 million USD per year. The parameter is also subjected to sensitivity analysis and the same will cross the benchmark at -229.70% which is unlikely.
	Escalation in O&M cost	%	5	PO has considered escalation in O&M cost as an internal value as per the industry practice. GCC verifier has cross checked the inflation rate published by IMF for Viet Nam <sup>19</sup> at the time of investment decision and forecasted till 2023. It is observed that the inflation rate of Vietnam referred in IMF report is 4% from 2018 to 2023. Project owner has also included O&M cost to sensitivity analysis, and it is observed that even with 100% variation in O & M cost with 4% escalation in the sensitivity analysis shall not breach benchmark. Therefore, the O & M cost as per assumed is deemed appropriate and acceptable by the project verification team.
	Project cost	USD Million	34.96	Verified against CIFSR /27/ of June 2018. The same is cross verified against the Actual cost document /31/. As per price mentioned in the synthesis report on completed project, it constitutes cost of supply of major equipment and installation cost. The other costs include Land and soft costs such as consulting cost, management expenditure, soft cost, transmission infrastructure and IDC etc. The total project cost predicted at the time of CIFSR /27/ is found to be higher than the actual cost /31/ by 33.24%.  Project verification team has subjected project cost in the sensitivity analysis and found that IRR will cross the benchmark when reduction of the project cost reduced to -33.73%. The same is unlikely to happen because the actual

<sup>18</sup> [Verra Search Page](#)

<sup>19</sup> <https://www.imf.org/en/Publications/WEO/weo-database/2018/October/weo-report?c=582,&s=PCPIPCH,PCPIEPCH,&sy=2018&ey=2023&ssm=0&scsm=1&sc=0&ssd=1&ssc=0&sic=0&sort=country&ds=.&br=1>

				cost report /31/ of dated 10/10/2019 i.e. audit report by 3 <sup>rd</sup> party confirm that the project cost is 23.34 million USD which is reduction of 33.24% whereas the benchmark will breach at reduction of 33.73%. Hence, GCC Verifier have accepted the same.
	Debt	%	70	The debt equity ratio (70:30) considered by project owner at the time of investment decision is mentioned in the CIFSR /27/ of June 2018. The project verification team has checked the impact of the IRR with the project is funded with various ratios viz. 50:50, 80:20, 95:05 etc. and in all scenarios the IRR is not crossing the benchmark value. Hence, the debt equity ratio considered in the investment analysis is acceptable to the GCC Project Verification team.
	Equity	%	30	
	Interest Rate	%	10	The interest rate 10% has been considered for the investment analysis based on the CIFSR /27/ of dated June 2018. The project verification team has cross verified the same with UNIDO Handbook <sup>20</sup> on how to access green financing in Viet Nam. As per the report the interest rate provided by State Bank of Viet Nam is from 9% to 11% for medium and long-range loan. Hence, the value used for the financial analysis is acceptable to the project verification team because the considered value is near to the rate provided by State Bank of Viet Nam.
	Conversion Factor- USD to VND	VND	22,795	PO has considered the conversion date as per decision making date <sup>21</sup> . Further GCC Verifier has cross verified from the publicly available data and found to be appropriate. Hence acceptable.
	Debt Repayment tenure	Year	10	The tenure of term loan and moratorium is considered for the investment analysis based on the internal assumption. The project verification team has cross verified the same with UNIDO Handbook <sup>22</sup> on how to access green financing in Viet Nam. As per the report states that "Loan term: Suitable for production and business characteristics, ensuring that each project can repay the loan in the term and not exceeding 13 years, within which the grace period shall not exceed 3 years from the signing date of the credit contract". Hence, the value used for the financial analysis is acceptable to the project verification team.
	Moratorium	Year	1	

<sup>20</sup> [2018 Green Financing in Viet Nam.pdf \(unido.org\)](#)

<sup>21</sup> [Central rate of VND versus USD \(sbv.gov.vn\)](#)

<sup>22</sup> [2018 Green Financing in Viet Nam.pdf \(unido.org\)](#)



	Corporate tax rate (0-4 years)	%	0.00	PO has considered the corporate tax rate from CIFSR /27/. GCC verifier cross checked VietNameese government Decree <sup>23</sup> No. 218/2013/ND-CP dated 26 <sup>th</sup> Dec 2012 which is found correct which is applicable at the time of investment decision.
	Corporate tax rate (5-13 years)	%	5.00	
	Corporate tax rate (14-15 years)	%	10.00	
	Corporate tax rate (16-25 years)	%	20.00	
	VAT	%	10	The tax rate is sourced from Vietnamese government revised law on VAT dated 3 <sup>rd</sup> June 2006 <sup>24</sup> which is cross checked and found to be correct which was applicable at the time of investment decision.
	Maximum time of depreciation	Years	15	The depreciation is sourced from a circular from Ministry of Finance /35/ Viet Nam. GCC Verifier has cross checked and found correct which is applicable at the time of decision making.
	Value of depreciation (SLM)	USD Million	1.27	The depreciation of the project activity is calculated as per the guidelines provided in paragraph 1 of annex 2 of guiding regulation /35/ on management, use and depreciation of fixed assets published by ministry of finance Viet Nam. The PO has considered the time of depreciation for machinery and power equipment under power generation unit as mentioned in A.1 of annex 1 of the above-mentioned report. The value of depreciation calculated by PO in IRR calculation is found appropriate as per the guidelines provided by ministry of finance Viet Nam. Hence, acceptable.
	Salvage value	USD Million	1.90 (10%)	The Project owner has considered 10% of the equipment cost as the salvage value and added back the same in the inflow to calculate the project IRR. This is acceptable as per the accounting principle and also conservative implies depreciation calculation.
<p>The post tax equity IRR calculations were provided in a spreadsheet /03/. The calculation was verified and found to be correct by CCIPL project verification team; as well as the assumptions used in the calculation were deemed to be correct. The equity IRR without GCC carbon credit revenues is 3.14% which confirms that the proposed project activity in absence of the GCC carbon credit benefits and compared to the benchmark return on equity 16.20% is not financially attractive.</p> <p><b>Sub-step 2d: Sensitivity analysis</b> A sensitivity analysis has been carried out for parameters contributing more than 20%</p>				

<sup>23</sup> Article 16. <https://thuvienphapluat.vn/van-ban/Doanh-nghiep/Nghi-dinh-218-2013-ND-CP-huong-dan-thi-hanh-Luat-thue-thu-nhap-doanh-nghiep-217811.asp>

<sup>24</sup> Law on Value Added Tax 2008 No. 13/2008/QH12 ([thuvienphapluat.vn](http://thuvienphapluat.vn))

revenues and costs, to demonstrate the robustness of the financial analysis. The parameters for which sensitivity analysis done are annual power generation (PLF), change in tariff, project costs, operational and maintenance cost, interest rate and debt equity ratio. Sensitivity analysis was conducted for  $\pm 10\%$  variation. Reasonable variations for these parameters were checked by calculating the variation necessary to reach the benchmark and then discussing the likelihood for that to happen.

#### For 28.05 MW/ 30.24 MWp

Variation %	-10%	Normal	10%	Variation required to reach benchmark	Value required to reach benchmark
Tariff (USD/KWh)	0.11%	3.14%	6.14%	42.00%	0.1327 USD/kWh
Annual Net Generation GWh	0.11%	3.14%	6.14%	42.00%	64.55 GWh
Project Cost (Mn USD)	5.81%	3.14%	0.99%	-33.73%	23.16 Mn USD
O&M Cost (Mn USD)	3.79%	3.14%	2.47%	-229.70%	-0.68 Mn USD

The results of sensitivity analysis /03/ show that even with a variation of  $\pm 10\%$  in tariff, Annual net generation, project cost, and O&M cost, post-tax equity IRR is significantly lower than the benchmark. And it is evident from the results given above; the project remains additional even under the most favorable conditions.

Project is already operational, and the actual Annual net generation is 24.81 MWh in 2019 /16/, 39.83 MWh in 2020 /16/, 47.32 MWh in 2021 /16/ and 47.63 MWh in 2022 /16/ which is lower by 43.80% & 9.78% for 2019 & 2020 respectively compared to estimated annual electricity generation. And for 2021 & 2022 it is 7.18% & 7.88% higher than the estimated annual electricity generation. IRR will only cross the benchmark if the Annual net generation increased more than 42.00%. Hence, there is no possibility of a further increase to Annual net generation at the rate of 42.00%.

O&M is already in place by the project owner and O&M used in the calculation is 0.02 Mn USD/MW. Sensitivity analysis reveals that O&M will breach the benchmark at negative values i.e., -229.70% and is hypothetical case. Hence, there is no possibility of further decrease and is highly unlikely.

Project is already operational, and the actual project cost is lower than (33.24%) the project cost used in the IRR calculation which is observed from actual cost /31/. IRR will only cross the benchmark if the project cost is reduced by 33.73%. Hence, there is no possibility of further decrease in the project cost at the rate 33.73% because PO has submitted 3<sup>rd</sup> party audit report /31/ of dated 10/10/2019 which confirms the actual project cost.

As per the Power Purchase agreement the tariff rate of electricity is 0.0935 cent USD/kWh the same is consistent with value in the CIFSR which is taken for Investment analysis. The IRR will only cross the benchmark only if there is an increase of 42.00% in the tariff. As per the PPA the tariff is fixed and there is no chances for further variation. Hence variation of tariff to breach the benchmark is unlikely.

#### Step 3: Barrier Analysis

The additionality of the project has been demonstrated by applying the investment analysis, thus no barrier analysis is carried out.

**Step 4: Common Practice Analysis**

The section below provides the analysis as per step 4 of the “Tool for the demonstration and assessment of additionality”, version 7.0./B05/and according to “Common Practice” Tool version 03.1/B06/. The common Practice analysis is done at the project level which result into capacity of 28.05 MW.

**Step 1: Calculate applicable capacity or output range as +/- 50% of the total design capacity or output of the proposed project activity:**

The project installed capacity is 28.05 MW. Therefore, total capacity of power plants which will be included in the analysis will be between 14.02 MW – 42.07 MW.

**Step 2: Identify similar projects (both CDM and non-CDM) which fulfil all of the following conditions:**

- a) The projects are located in the applicable geographical area;

**The project is located in Viet Nam and the applicable geographical area is Viet Nam. All the projects in the host country Viet Nam have been chosen for analysis.**

- b) The projects apply the same measure as the proposed project activity;

**Renewable Energy Projects**

- c) The projects use the same energy source/fuel and feedstock as the proposed project activity, if a technology switch measure is implemented by the proposed project activity;

**Solar power projects**

- d) The plants in which the projects are implemented produce goods or services with comparable quality, properties and applications areas (e.g., clinker) as the proposed project plant;

**The project activity produces electricity; therefore, all solar power plants that produce electricity are candidates for similar projects;**

- e) The capacity or output of the projects is within the applicable capacity or output range calculated in Step 1;

**Range in between 14.02 MW – 42.07 MW**

- f) The projects started commercial operation before the project submission form (GCC-PSF) is published for global stakeholder consultation or before the start date of proposed project activity, whichever is earlier for the proposed project activity.  
As per the Tool 24: “Common practice”, version 3.1 and the CDM glossary, the start date is considered as 10/11/2018 (EPC /09/ contract signed date). Therefore, projects, which have started commercial operation between 25/09/2002 to 10/11/2018 have been considered for analysis.

Project	Province	Expected capacity to operate before 2020	COD
Phong Dien Solar Power	Thua Thien Hue	35 MW	Oct-18

**No. of similar projects are identified in step (2).  $N_{\text{solar}} = 1$**

**Step 3: within the projects identified in Step 2, identify those that are neither registered CDM project activities, project activities submitted for registration, nor project activities undergoing GCC Project Verification. Note their number,  $N_{\text{all}}$ .**

There is only one project that meets the conditions. Hence  $N_{\text{all}} = 1$

**Step 4: within similar projects identified in Step 3, identify those that apply technologies that are different to the technology applied in the proposed project activity. Note their number  $N_{\text{diff}}$ .**

Projects with technologies different to technology applied in the proposed project activity were identified as  $N_{\text{diff}} = 0$ .

**Step 5: calculate factor  $F = 1 - (N_{\text{diff}}/N_{\text{all}})$  representing the share of similar projects (penetration rate of the measure/technology) using a measure/technology similar to the measure/technology used in the proposed project activity that deliver the same output or capacity as the proposed project activity.**

The factor F was found to be in line with Tool 24  
 $F = 1 - (N_{\text{diff}}/N_{\text{all}}) = 1 - (0/1) = 1$   
 $N_{\text{all}} - N_{\text{diff}} = 1 - 0 = 1$

Since the proposed project activity would be common practice only both of the following conditions apply.

$F > 0.2$  and  $N_{\text{all}} - N_{\text{diff}} > 3$

For the concerned project,  $F = 1$  and  $N_{\text{all}} - N_{\text{diff}} = 1$  (Which is less than 3), therefore, the proposed project is not a common practice within the applicable geographical area.

As described above project fulfils all necessary requirements of additionality specified in the "Tool 01 "Tool for demonstration and assessment of Additionality", version 07.0 /B05/ and hence, the project activity is additional.

### D.3.6 Estimation of emission reductions or net anthropogenic removal

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	CAR 06, CAR 07 & CAR 12 are raised and closed satisfactorily. Please refer to Appendix 4 for further details.
<b>Conclusion</b>	<b>Baseline Emission</b> According to ACM0002, v21.0 methodology /B01/, emission reductions related to project activities is estimated as follows:

	<p><math>BE_y = EG_{facility,y} \times EF_{grid,CM,y}</math></p> <p>Where:</p> <p><math>BE_y</math> = Baseline emissions in year y (t CO<sub>2</sub>/yr)  <math>EG_{facility,y}</math> = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr)  <math>EF_{grid,,y}</math> = Combined margin CO<sub>2</sub> 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” /B04/(t CO<sub>2</sub>/MWh).</p> <p>Since the electricity generation values differ between years as explained in A.1, annual average electricity generation over the crediting period has been calculated and given in ER Sheet /02/. According to ER Sheet, <math>EG_{facilit}</math>, is 44,150 MWh/yr. Also, according to “Research and develop emission factor (EF) of Viet Nam's electricity grid in 2021 (attached with CV 1278/BDKH-TTBVTOD) published on 31/12/2022, /25/” document from Department of Climate Change— Ministry of Natural Resources and Environment, the emission factor (<math>EF_{grid,CM,y}</math>) could be used as 0.8230 tCO<sub>2</sub>/MWh. At the time of GSC this data was available and it satisfies the requirements of para 8 &amp; 9 of Clarification No. 3.</p> <p>Therefore,  <math>BE_y = 44,150 \text{ MWh/year} \times 0.8230 \text{ tCO}_2\text{e/MWh}</math>  <math>BE_y = 36,336 \text{ tCO}_2\text{e}</math></p> <p><b>Project Emissions (PE<sub>y</sub>)</b>  As the project activity is a solar photovoltaic based power generation, the project emissions are not applicable to the project activity as per the methodology ACM0002, v21.0 /B01/.</p> <p>Hence, <math>PE_y = 0</math></p> <p>Leakage (LE<sub>y</sub>)  As per ACM0002, v21.0 /B02/, no leakage emissions are considered.</p> <p>Therefore, <math>LE_y = 0</math>.</p> <p><b>Emission Reductions</b>  Based on the data above, the emission reduction value for the project activity is:</p> <p><math>ER_y = BE_y - PE_y - LE_y</math></p> <p><math>ER_y = BE_y = 36,336 \text{ tCO}_2\text{e}</math></p> <p>Parameters available at the time of project verification (ex-ante) (Mention under section B.6.2 of the PSF) are:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Parameter</th> <th style="text-align: left;">Value</th> <th style="text-align: left;">Unit</th> <th style="text-align: left;">Assessment</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Parameter	Value	Unit	Assessment				
Parameter	Value	Unit	Assessment						

	Operating Margin CO <sub>2</sub> emission factor in year y of Viet Nam national Grid. ( $EF_{grid,OM,y}$ )	0.9239	tCO <sub>2</sub> e/MWh	The simple OM emission factor have been calculated using the Simple OM method as the low-cost/must run resources constitute less than 50% (for year 2016 to 2020). The ex-ante vintage data has been used for the OM calculation of the project. The value has been sourced from “Research and develop emission factor (EF) of Viet Nam’s electricity grid in 2021 (attached with CV 1278/BDKH-TTBVTOD)” document from Department of Climate Change - Ministry of Natural Resources and Environment /25/ which is applicable as per the para. 8 and 9 of clarification No. 3 v1.0 /B02-7/. This is the latest available data vintage at the time of GSC, and so is taken for the EF calculations. The simple OM is fixed ex-ante in line with the ‘Tool to calculate the emission factor for an electricity system’ Version 07.0.0 /B05/. Hence, accepted by the project verification team.
	Build Margin CO <sub>2</sub> emission factor in year y of Viet Nam national Grid ( $EF_{grid,BM,y}$ )	0.5202	tCO <sub>2</sub> e/MWh	As per the “tool to calculate the emission factor for an electricity system” Version 07.0.0 /B04/, the build margin emissions factor is the generation-weighted average emission factor (tCO <sub>2</sub> /MWh) of all power units <i>m</i> during the most recent year <i>y</i> for which electricity generation data is available. Hence, the value has sourced from “Research and develop emission factor (EF) of Viet Nam’s electricity grid in 2021 (attached with CV 1278/BDKH-TTBVTOD)” /25/ document from Department of Climate Change – Ministry of Natural Resources and Environment /25/. The calculation procedures are outlined in the PSF /01/. Hence, accepted by the project verification team.
	Combined Margin CO <sub>2</sub> emission factor in year y of Viet Nam National Grid ( $EF_{grid,CM,y}$ )	0.8230	tCO <sub>2</sub> e/MWh	The value is calculated considering 75% operating margin and 25% build margin as per the “tool to calculate the emission factor for an electricity system” Version 07.0.0 /B05/ which GCC verifier found appropriate as per Clarification No. 3 /B02-7/ para. 8(a).

### D.3.7 Monitoring plan

<b>Means of Project Verification</b>	Desk Review and Interviews														
<b>Findings</b>	CL 04, CAR 06 & CAR 08 are raised and closed satisfactorily. Please refer to Appendix 4 for further details.														
<b>Conclusion</b>	<p>The approved baseline and monitoring methodology “ACM0002.” version 21.0 /B01/ has been applied. The monitoring plan is in accordance with the monitoring methodology/B01/; the monitoring plan will give opportunity for real measurement of achieved emission reductions. CCIPL project verification team has checked all the parameters presented in the monitoring plan against the requirements of the methodology; no deviations relevant to the project activity have been found in the plan.</p> <p>CC IPL confirms that the monitoring arrangements described in the monitoring plan are feasible within the project design, and the means of implementation of the monitoring plan are sufficient to ensure the emission reductions achieved by/resulting from the proposed GCC project activity can be reported ex post and verified.</p> <p>Parameters that will be monitored (ex-post) (Mention under section B.7.1 of the PSF are:</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Unit</th> <th>Frequency</th> <th>Assessment</th> </tr> </thead> <tbody> <tr> <td>EG<sub>facility,y</sub> (Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid in year y)</td> <td>MWh/Year</td> <td>Monthly</td> <td> <p>The estimated net electricity generated is given, however, the value for the parameter will be verified through review of on-site meter reading records. The Net electricity supplied to the grid by each Solar project is estimated as below.</p> <p>Net electricity = Export – Import There are two meters of 0.2 &amp; 0.5s accuracy class (main meter and check meter) bidirectional meters are installed at the EVN substation to measure and record the net electricity supplied to the grid. The net-generation is equal to energy exported from the main meter. The calibration of the meters is being performed as per the Circular No. 23/2013/Tt-BKHCN dated 26/09/2013 of The Minister of Science and Technology, Regulations on Measurement for Group 2 Measurements, Which is calibration and verification for 3 phase meters need to be conducted every three years. The same is consistent with the PSF/01-d/. The same has been confirmed during the onsite visit /24/ and calibration records /15/.</p> </td> </tr> <tr> <td>GHG Emission Reductions (EA03)</td> <td>tCO<sub>2</sub>e/year</td> <td>Annually</td> <td> <p>Emission reduction achieved due to the implementation of project activity that would have been otherwise be emitted by fossil fuel-based power plants.</p> <p>The CO<sub>2</sub> emission reduction is calculated by multiplying the</p> </td> </tr> </tbody> </table>			Parameter	Unit	Frequency	Assessment	EG <sub>facility,y</sub> (Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid in year y)	MWh/Year	Monthly	<p>The estimated net electricity generated is given, however, the value for the parameter will be verified through review of on-site meter reading records. The Net electricity supplied to the grid by each Solar project is estimated as below.</p> <p>Net electricity = Export – Import There are two meters of 0.2 &amp; 0.5s accuracy class (main meter and check meter) bidirectional meters are installed at the EVN substation to measure and record the net electricity supplied to the grid. The net-generation is equal to energy exported from the main meter. The calibration of the meters is being performed as per the Circular No. 23/2013/Tt-BKHCN dated 26/09/2013 of The Minister of Science and Technology, Regulations on Measurement for Group 2 Measurements, Which is calibration and verification for 3 phase meters need to be conducted every three years. The same is consistent with the PSF/01-d/. The same has been confirmed during the onsite visit /24/ and calibration records /15/.</p>	GHG Emission Reductions (EA03)	tCO <sub>2</sub> e/year	Annually	<p>Emission reduction achieved due to the implementation of project activity that would have been otherwise be emitted by fossil fuel-based power plants.</p> <p>The CO<sub>2</sub> emission reduction is calculated by multiplying the</p>
Parameter	Unit	Frequency	Assessment												
EG <sub>facility,y</sub> (Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid in year y)	MWh/Year	Monthly	<p>The estimated net electricity generated is given, however, the value for the parameter will be verified through review of on-site meter reading records. The Net electricity supplied to the grid by each Solar project is estimated as below.</p> <p>Net electricity = Export – Import There are two meters of 0.2 &amp; 0.5s accuracy class (main meter and check meter) bidirectional meters are installed at the EVN substation to measure and record the net electricity supplied to the grid. The net-generation is equal to energy exported from the main meter. The calibration of the meters is being performed as per the Circular No. 23/2013/Tt-BKHCN dated 26/09/2013 of The Minister of Science and Technology, Regulations on Measurement for Group 2 Measurements, Which is calibration and verification for 3 phase meters need to be conducted every three years. The same is consistent with the PSF/01-d/. The same has been confirmed during the onsite visit /24/ and calibration records /15/.</p>												
GHG Emission Reductions (EA03)	tCO <sub>2</sub> e/year	Annually	<p>Emission reduction achieved due to the implementation of project activity that would have been otherwise be emitted by fossil fuel-based power plants.</p> <p>The CO<sub>2</sub> emission reduction is calculated by multiplying the</p>												

				<p>emission factor of the Grid with the net electricity supplied by the project activity to the grid.</p> <p>The monitoring parameter is continuously monitored by means of on-site meters. The project activity is expected to reduce 36,336 tCO<sub>2</sub>e annually.</p> <p>The CO<sub>2</sub> emission reduction is validated from the ER calculation sheet /02-d/ and found appropriate.</p>
	Solid waste Pollution from Hazardous wastes (EL02)	Tonnes	Annually	<p>The waste produced during the operations and end of life by the Project activity will be regulated and disposed to the waste handlers or sent back to the manufacturer.</p> <p>The waste management plan of the company has been verified by the GCC Verifier and found to be in compliance with the local laws.</p> <p>The monitoring parameter will be continuously monitored by means of plant records.</p> <p>The project activity will monitor the generation of waste and maintain the disposal record for verification. Actual plant records of project waste (if any) to be shared by the PO at the time of Emission reduction verification of the project activity.</p>
	Solid waste Pollution from E-wastes (EL04)	Tonnes	Annually	
	Solid waste Pollution from end-of-life products/ equipment (EL06)	Tonnes	Annually	
	Solid Waste Pollution from Batteries (EL05)	Tonnes	Annually	
	Sanitation and waste management (SHS08)	Tonnes	Annually	
	Water Consumption from ground and other sources (EW02)	m <sup>3</sup> /day	Annually	
	Replacing fossil fuels with renewable sources of energy	MWh	Monthly	<p>The project activity use water for cleaning of modules and domestic use. Though the project activity is not located in the residential or rural areas which doesn't impact on the existing using pattern. GCC verifier has cross checked the same during site visit /24/. PO has maintaining water consumption records /29/ which GCC verifier reviewed and found satisfactory.</p> <p>The implementation of project activity replaces the electricity generation source from conventional source to renewable source otherwise that would be generated by fossil fuel-based power plants.</p> <p>The source of electricity generation replacement is obtained by monthly EMR sheet from which the net electricity supplied by the project activity to the grid will be monitored.</p> <p>The monitoring parameter is continuously monitored by means of</p>



				<p>on-site meters. The project activity is expected to replace 44,150 MWh annually.</p> <p>The source of electricity generation replacement is validated from the ER calculation sheet /02-c/ and JMR /16/ and found appropriate.</p>
	Long-term jobs (> 10 year) created/ lost (SJ01)	Number of Jobs	Annually	<p>The project activity has claimed created of on-site long-term jobs. At the time of project verification project activity has generated 20 numbers of long-term jobs at site. This has been verified by the Employment records /21/ submitted by the PO.</p> <p>The monitoring parameter will be continuously monitored by means of employment records.</p>
	Women's empowerment (SW06) (Human rights)	No. of women employee	Annually	<p>Company has employed three women resource in compliance with the equal remuneration and minimum wage act. GCC Verifier has cross checked this with employment records /21/ and confirms that the PO willing to contribute towards women empowerment.</p> <p>The monitoring parameter will be continuously monitored by means of employment records.</p>
	Specialized training/ education to local personnel (SE01)	No. of trainings	Annually	<p>PO has mentioned that they will provide the required training to the local personnel. GCC Verifier has cross checked the same and also established it as during the on-site audit by interviewing the stakeholders. GCC Verifier has also cross checked the training records /22/ provided by the PO and confirmed that there is a well-established training procedure available at site.</p> <p>The monitoring parameter will be continuously monitored by means of training records.</p>
	Avoiding discrimination when hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities (SJ04)	HR policy	Continuous	<p>PO has submitted the HR Policy for Recruitment and Onboarding /23/. The HR policy/23/ states that the recruitment process of the company follows the commitment to equality, diversity and inclusion.</p> <p>GCC Verifier has verified the company level HR policy and confirm it during the interview with the stakeholders that the company does not discriminate when hiring people and also has the process to record grievances of local community. This establishes the communal harmony between the PO and the local</p>

				community. PO has considered zero score for this parameter and, it is monitored continuously throughout the crediting period.
	Reducing/increasing accidents/incidents/fatality	No. of trainings and Physical hazards/incidents	Annually	PO has mentioned that they will provide the required training to the workers. GCC Verifier has cross checked the same and also established it as during the on-site audit by interviewing the stakeholders. GCC Verifier has also cross checked the training records /22/ provided by the PO and confirmed that there is a well-established training procedure available at site. The monitoring parameter will be continuously monitored by means of training records and keep a check on records of Physical hazards /18/.
	Exploitation of child labour (SW08)	Number of Jobs	Annually	The project activity has claimed created of on-site long-term jobs. At the time of project verification project activity has generated 20 numbers of long-term jobs at site. This has been validated by the Employment records /21/ submitted by the PO.  The monitoring parameter i.e., prevention of exploitation of child labour will be continuously monitored by means of employment records.
	Amount of renewable energy supplied to grid for consumption (SDG 7)	MWh/Year	Monthly	The estimated net electricity generated is given, however, the value for the parameter will be verified through review of on-site meter reading records. The Net electricity supplied to the grid by each Solar project is estimated as below.  Net electricity = Export – Import There are two meters of 0.2 and 0.5s accuracy class (main meter and check meters) bidirectional meters are installed at the EVN substation to measure and record the net electricity supplied to the grid. The net-generation is the total exported from the main meter. The calibration of the meters is being performed as per the Circular No. 23/2013/Tt-BKHCHN dated 26/09/2013 <sup>25</sup> of The Minister of Science and Technology, Regulations on Measurement for Group 2 Measurements, which is calibration and verification for 3

<sup>25</sup> [https://thuvienphapluat.vn/van-ban/Bo-may-hanh-chinh/Thong-tu-07-2019-TT-BKHCHN-sua-doi-Thong-tu-23-2013-TT-BKHCHN-424852.aspx?anchor=dieu\\_2\\_1](https://thuvienphapluat.vn/van-ban/Bo-may-hanh-chinh/Thong-tu-07-2019-TT-BKHCHN-sua-doi-Thong-tu-23-2013-TT-BKHCHN-424852.aspx?anchor=dieu_2_1)

				phase meters need to be conducted every three years. The same is consistent with the PSF/01-d/. The same has been confirmed during the onsite visit /24/ and calibration records /15/.
	Average earnings of females and male employees engaged in the project and segregated by age and persons with disabilities. (SDG 8)	Number of Jobs	Annually	<p>The project activity has claimed creation of on-site long-term jobs. At the time of project verification project activity has generated 20 numbers of long-term jobs at site in which 4 no. of employees is women. This has been validated by the Employment records /21/ submitted by the PO, which contain DOB, age etc.</p> <p>Also, PO has submitted the HR Policy for Recruitment and Onboarding /23/. The HR policy /23/ states that the recruitment process of the company follows the commitment to equality, diversity and inclusion. GCC Verifier has verified the company level HR policy and confirm it during the interview with the stakeholders that the company does not discriminate when hiring people and also has the process to record grievances of local community. The monitoring parameter will be continuously monitored by means of employment records /21/.</p>
<p>The monitoring plan content has been checked in the project activity and compared against the requirements of the monitoring methodology /B02/. It has been confirmed by the verification team that the monitoring plan, procedures, roles and responsibilities provided in the PSF is deemed to be feasible.</p>				

#### D.4. Start date, crediting period and duration

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	CAR 11 is raised and closed satisfactorily. Please refer to Appendix 4 for further details.
<b>Conclusion</b>	<p>The start date of the project is 09/05/2019, which is the start date of commercial operation of the project /4/. Crediting period has been chosen as fixed 10 years from 09/05/2019 to 08/05/2029.</p> <p>A crediting period of a maximum length of 10 years has been selected by project owner. Therefore, the duration of the crediting period is from 09/05/2019 to 08/05/2029. Technical lifetime for the project activity is 25 years /07/. The project verification team concludes that the duration of the proposed project activity is in conformance with the requirements of para.39 and para.40 of GCC Project Standard, version 03.1 /B02-1/.</p>

#### D.5 Environmental impacts

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	CL 05 is raised and closed satisfactorily. Please refer to Appendix 4 for further details.
<b>Conclusion</b>	<p>As per the review of the Environmental Protection of the Government of Vietnam, Government's Decree NO: 18/2015/ND-CP, dated February 14, 2015<sup>26</sup>, Project Owner must prepare and submit the detailed Environmental Impact Assessment Report /20/ to the Department of Natural Resources and Environment including the strategic environmental assessment, Environmental impact assessment and environmental protection Plan. The project verification team has confirmed that the Environmental Impact Assessment report was submitted and approved by the respective district "Department of Natural resources and Minerals, Provincial People Committee". EIA approval Decision /36/ No. 983/QD-UBND 15<sup>th</sup> June 2018 was issued to the project activity.</p> <p>The project will benefit the local people by engaging them in construction, operation and maintenance activities during the project. The verification team also confirm that the project owner has taken all the necessary legal approvals from the government and other parties to implement the project activity.</p>

#### D.6. Local stakeholder consultation

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	CL 06 is raised and closed satisfactorily. Please refer to Appendix 4 for further details.
<b>Conclusion</b>	<p>It has been indicated in the PSF /01/ that the local stakeholder consultation /19/ has been done for the project activity on 02/05/2018 at the project site. PO has conducted LSC as part of EIA and provided attendance sheet and MoM for the same which is acceptable as per para. 70 of section G.1 of PSF template filling instruction /B03/ that is before the commissioning of the project activity. The meeting announcement was done by putting public notice at project site/nearby village. The same covers meeting location, date and time /19/. A summary of comments has been provided by the project owner in the PSF/01/ and it is found that no adverse comment was received for the project activity. This has also been verified by CCIPL project verification team during site visit /24/.</p> <p>During the on-site interviews with the stakeholder, it is noted that the project activity cause no harm to environment and society and also for the project contribution in achieving UN sustainable development goals. Further, the interviews confirmed that there was no adverse comment about the project and this project will lead to employment generation and better environmental conditions.</p> <p>CC IPL considers the local stakeholder consultation carried out adequately and can confirm that the process is in line with the requirements of GCC.</p>

#### D.7. Approval and Authorization- Host Country Clearance

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	FAR 01 is raised. Please refer to Appendix 4 for further details.
<b>Conclusion</b>	The verification team confirms that no HC approval is required by the CORSIA labelled project activity, and the HCA will be required during the first or subsequent ERVR

#### D.8. Project Owner- Identification and communication

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	No Findings are raised.

<sup>26</sup> [Microsoft Word - 18\\_2015\\_ND-CP\\_268489.doc \(eregulations.org\)](#)

<b>Conclusion</b>	<b>Organisation name</b>	Phuoc Huu Power Investment Joint Stock Company
	<b>Country</b>	Viet Nam
	<b>Address</b>	Hau Sanh village, Phuoc Huu commune, Ninh Phuoc district, Ninh Thuan province, Viet Nam
	<b>Telephone</b>	-
	<b>Fax</b>	-
	<b>E-mail</b>	<a href="mailto:Minhphuongdhh2@gmail.com">Minhphuongdhh2@gmail.com</a> & <a href="mailto:hoviethungdhh@gmail.com">hoviethungdhh@gmail.com</a>
	<b>Website</b>	-
	<b>Contact person</b>	Mr. Do Minh Phuong & Mr. Ho Viet Hung
	<b>Organisation name</b>	Kosher Climate India Private Limited
	<b>Country</b>	India
	<b>Address</b>	Zee Plaza, No.1678, Ground and 1st Floor, 27th Main Rd, near Andhra Bank, Sector 2, HSR Layout, Bengaluru, Karnataka 560102
	<b>Telephone</b>	+91 9632803444
	<b>Fax</b>	-
	<b>E-mail</b>	<a href="mailto:narendra@kosherclimate.com">narendra@kosherclimate.com</a> & <a href="mailto:vamsi@kosherclimate.com">vamsi@kosherclimate.com</a>
	<b>Website</b>	<a href="https://kosherclimate.com/">https://kosherclimate.com/</a>
	<b>Contact person</b>	Mr. Narendra Kumar Ramaraj & Mr. Vamsi Krishna Manchikalapudi
	<p>The GCC Verifier has reviewed the Incorporation certificate /05/ of Phuoc Huu Power Investment Joint Stock Company having Identification Number as 4500619483 and date of incorporation as 11/12/2017 and validated Phuoc Huu Power Investment Joint Stock Company has the legal ownership of the bundled project.</p>	
	<p>This is in compliance with the Para 10 (i) of the Project Standard Version 3.1. /B02-2/ The information and contact details of the representation of the project owner and project owners themselves has been appropriately incorporated in Appendix 1 of the PSF which was checked and verified by the verification team from Authorization letter signed /04/ by the project owners. All information was consistent between these documents.</p>	

## D.9. Global stakeholder consultation

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	No findings are raised.
<b>Conclusion</b>	<p>The process for global stakeholder consultation was conducted in accordance with the requirements of section 3.2.4 of the Verification Standard (version 03.1) /B02-2/. The PSF v02 dated 18/01/2023 was published for global stakeholder consultation from 29/01/2023 to 12/02/2023.</p> <p>PSF was published on the GCC website and invited comments by concerned parties, stakeholders, and non-governmental organizations from 29/01/2023 to 12/02/2023. During the above period no Global stakeholders' comments were received.</p> <p>The verification team confirm that no comments were received during the Global stakeholder consultation. Verification team is of the opinion that the changes in the PSF during the validation process do not require the publication of the revised PSF for global stakeholder consultation.</p>

## D.10. Environmental Safeguards (E+)

<b>Means of Project Verification</b>	Desk Review and Interviews			
<b>Findings</b>	CAR 09 is raised and closed satisfactorily. Please refer to Appendix 4 for further details.			
<b>Conclusion</b>	The Project owner has chosen to apply for the Environmental No-net-harm Label (E+). The assessment of the impact of the project activity on the environmental safeguards has been carried out in section E.1 of the PSF. Out of all the safeguards no risks to the environment due to the project implementation were identified and the following environmental impacts were considered for the project activity.			
	<b>Impact of Project Activity on Environmental Safeguards</b>	<b>Project Owner's Conclusion</b>	<b>Score</b>	<b>GCC verifier Assessment</b>
	Environment – Air; CO <sub>2</sub> emissions	<p>The overall impact is positive with respect to the baseline and hence the impact is harmless.</p> <p>Since the impact is being monitored to demonstrate the positive impact over the lifetime, it is a score as +1</p>	+1	<p>The project activity being renewable power generation avoids CO<sub>2</sub> emissions that would have occurred in baseline scenario due to the electricity generation in thermal power plants. The impacts is being monitored through parameter 'CO<sub>2</sub> emission reduction' and is verified under section D.3.7 of this report.</p> <p>An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring was found acceptable by the verification team.</p>
Replacing fossil fuels with renewable sources of energy	<p>No mandatory law/regulation is related to the same.</p> <p>The project activity will replace fossil fuel with the installation of renewable solar energy for the power generation, which would have been otherwise generated from the fossil fuel dominant grid connected power plants. The same is monitored through the monthly power generation report /16/. The same is</p>	+1	Evaluation found Harmless. The same is acceptable to the GCC Verifier. Hence the scoring +1 is acceptable.	

		confirmed during the onsite visit/24/.		
	Solid waste Pollution from Hazardous wastes	<p>Hazardous wastes generated during the project activity will be collected, sorted, stored and disposed to the licensed vendor as per the regulation pertaining to the respective hazardous waste management rules.</p> <p>Since the impact of parameter is within the regulatory limits and is being measured and monitored to demonstrate the impact is harmless this parameter is scored as +1.</p>	+1	<p>This is covered to monitor impacts from disposal of broken or replaced solar panels. The impacts are being monitored through parameters 'Solid waste Pollution from Hazardous wastes (EL02)' and discussed under section D.3.7 of this report.</p> <p>An appropriate monitoring plan has been put in place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team.</p>
	Solid waste Pollution from E-wastes	<p>All kinds of the E-wastes generated during the project activity will be collected, sorted, stored and disposed to the authorized vendor for the recycling or to dump at the legacy MSW sites as per the regulation pertaining to the respective E-waste management rules.</p> <p>Since the impact of parameter is within the regulatory limits and is being measured and monitored to demonstrate the impact is harmless this parameter is scored as +1.</p>	+1	<p>Any E-waste including broken panels and batteries if generated from the plant shall be discarded in accordance with host country regulation. The parameter is being monitored as 'Solid waste Pollution from E-wastes (EL04)' and validated under section D.3.7 of this report.</p> <p>An appropriate monitoring plan has been put in place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team.</p>
Solid waste Pollution from end-of-life products / equipment	<p>Since the impact is yet to be monitored at the end of the lifetime this parameter is scored as "+1".</p>	+1	<p>Waste generated after end of lifecycle of a product shall be discarded in accordance with host country regulation. The parameter is being</p>	

				<p>monitored as 'Solid waste Pollution from end-of-life products/ equipment (EL06)' and validated under section D.3.7 of this report.</p> <p>An appropriate monitoring plan has been put in place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team.</p>
	Solid waste pollution from batteries (EL 05)	<p>Though the impact due to the battery usage is insignificant the parameter will be monitored to demonstrate the impact is neutral. Hence the parameter is scored as +1.</p>	+1	<p>Waste generated from batteries shall be discarded in accordance with host country regulation. The parameter is being monitored as 'Solid waste pollution from batteries (EL 05)' and verified under section D.3.7 of this report.</p> <p>An appropriate monitoring plan has been put in place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team.</p>
	Land use change (change from cropland /forest land to project land) (EL08)	<p>The impact is unlikely to cause any harm.</p> <p>There will not be an occurrence of land use change in the project site from the project implementation till the end of project lifetime. Hence, monitoring of this parameter is not required and scored as 0.</p>	0	<p>The land for the project activity is a leased land /12/. The land was taken for development of project activity with mutual agreement. The PO has paid the land conversion fee. GCC Verifier has crosschecked the same with the Land acquisition Letter /12/ and found appropriate and confirms that the land has been taken for development of Solar Power Project. It is also confirmed from the interview with the stakeholder during on site visit /24/. Hence, GCC verifier concludes that the parameters is harmless and scored appropriately.</p>
	Water Consumption from ground and other sources (EW02)	<p>There is no impact due to the consumption of water resources.</p> <p>The impact is positive compared to the baseline scenario where the water</p>	+1	<p>The project activity use ground water for cleaning of modules and domestic use. Though the project activity is not located in the residential or rural areas which doesn't impact on the existing using pattern. GCC Verifier has</p>



		<p>consumption is comparatively higher for thermal power projects. The impact i.e quantity of water saved is being monitored this parameter is scored as “+1”.</p>	<p>cross checked the same from water consumption records /29/ and during site visit /24/. PO has considered +1 for this parameter, and it is verified as harmless.</p>
<p><b>Negative Impacts:</b></p> <p>No negative impacts identified or verified for the project activity, which cannot be mitigated.</p> <p>Environmental land solid waste pollution from hazardous waste, E-waste, battery waste and end-of-life products has been identified and proper mitigation action has been implemented for waste management.</p> <p>Verification team confirms that the Project activity will not cause any net harm to the environment and net score for project activity comes out to be +7, hence, is eligible to achieve additional E+ certifications. The detailed matrix has been included in appendix 5 of the report in which PO has fulfilled the minimum requirement for Renewable energy projects (Solar) mentioned in appendix 1 of Environment and social Safeguard standard v 3.0 /B02-4/.</p>			

### D.11. Social Safeguards (S+)

<b>Means of Project Verification</b>	Desk Review and Interviews							
<b>Findings</b>	CAR 09 is raised and closed satisfactorily. Please refer to Appendix 4 for further details.							
<b>Conclusion</b>	<p>The Project owner has chosen to apply for the Social No-net-harm Label (S+). The assessment of the impact of the project activity on the social safeguards has been carried out in section E.2 of the PSF. Out of all the safeguards no risks to the Society due to the project implementation were identified and the following have been indicated as positive impacts. The verification team based on the review of the PSF /01/ and the supporting document /21,22/ confirms that the social impacts mentioned in the section E.2 of the PSF is applicable to the Project activity and the monitoring procedures of the parameters are provided.</p>							
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 25%;">Impact of Project Activity on Social Safeguards</th> <th style="width: 25%;">Project Owner’s Conclusion</th> <th style="width: 10%;">Score</th> <th style="width: 40%;">Assessment</th> </tr> </thead> <tbody> <tr> <td>Long- term jobs (&gt; 10 year) created/ lost</td> <td>There is no mandatory law to generate permanent employment from the project activity, however, project Owner has been decided to provide training to the local people &amp; generate permanent employment for local people. Therefore, this</td> <td style="text-align: center;">+1</td> <td> <p>The impacts being monitored throughout crediting period by parameter ‘Long-term jobs (&gt; 10 year) created/ lost (SJ01)’ and is verified under section D.3.7 of this report.</p> <p>The employment was verified from employment records /21/ and during the on-site audit/24/ and by interviews and it was accepted by the GCC Verification team that appropriate monitoring plan is going to be implemented.</p> </td> </tr> </tbody> </table>	Impact of Project Activity on Social Safeguards	Project Owner’s Conclusion	Score	Assessment	Long- term jobs (> 10 year) created/ lost	There is no mandatory law to generate permanent employment from the project activity, however, project Owner has been decided to provide training to the local people & generate permanent employment for local people. Therefore, this	+1
Impact of Project Activity on Social Safeguards	Project Owner’s Conclusion	Score	Assessment					
Long- term jobs (> 10 year) created/ lost	There is no mandatory law to generate permanent employment from the project activity, however, project Owner has been decided to provide training to the local people & generate permanent employment for local people. Therefore, this	+1	<p>The impacts being monitored throughout crediting period by parameter ‘Long-term jobs (&gt; 10 year) created/ lost (SJ01)’ and is verified under section D.3.7 of this report.</p> <p>The employment was verified from employment records /21/ and during the on-site audit/24/ and by interviews and it was accepted by the GCC Verification team that appropriate monitoring plan is going to be implemented.</p>					

		parameter will be scored.		
	Avoiding discrimination when hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities (SJ04) (Human rights)	Project owner strictly avoid any discrimination practices while hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities. Project owner ensures that equality of opportunity and treatment of all individuals to fully develop their talents and skills according to their aspirations and preferences, and to enjoy equal access to employment as well as equal working conditions.	+1	PO has submitted the HR Policy for Recruitment and Onboarding /23/. The HR policy states that the recruitment process of the company follows the commitment to equality, diversity and inclusion.  GCC Verifier has seen and verified the company level HR policy and confirm it during the interview with the stakeholders that the company does not discriminate when hiring people and also has the process of record grievances of local community. This establishes the communal harmony between the PO and the local community. PO has considered +1 score for this parameter and, it is verified as harmless.
	Reducing / increasing accidents/Incidents/fatality (SHS03)	The project owner will provide regular safety training to their workers about the accident hazards and risk related to specific works and preventive measures for avoiding accidents at site Since the parameter is having the impact on the employees this parameter is being considered for monitoring to demonstrate that impact is neutral during the project operational period.	+1	PO has well onsite established OSH Guideline. /32/ The project owner will provide regular safety training to their workers about the accident hazards and risk related to specific works and preventive measures for avoiding accidents at site. GCC Verifier has cross checked the same and also established it as harmless during the onsite audit by interviewing the stakeholders. GCC Verifier has also cross checked the annual OSH Guideline /32/ provided by the PO and confirmed that there is a well-established safety procedure available at site. PO has considered +1 score for this parameter and, it is verified as harmless.
	Sanitation and waste management (SHS08)	Management will ensure proper disposal of Sanitary and domestic Waste	+1	In the solar power plant sanitation and waste management is very less. However, PO has Waste

		through actual user, waste collector or operator of the disposal facility, Septic tank and soak pits will be provided onsite for treatment and disposal of sewage, thereby minimizing the impacts of wastewater discharge. Planning of toilets, soak pits and septic tanks, waste collection areas will be away from natural drainage channels Therefore this parameter will be scored.		management plan <sup>27</sup> for the project site and as per regulation. GCC Verifier has verified the same during the on-site audit and found appropriate and shall not cause harm to the environment & society. PO has considered +1 score for this parameter and, it is verified as harmless.
	Specialized training/ education to local personnel (SE01)	Project owner will provide regular job-related training to their workers. Hence this parameter will be scored. /22/	+1	PO has mentioned that they will provide required training to the workers. GCC Verifier has cross checked the same and also established it as harmless during the on-site audit by interviewing the stakeholders. GCC Verifier has also cross checked the training records /22/ provided by the PO and confirmed that there is a well-established training procedure available at site. PO has considered +1 score for this parameter and, it is verified as harmless.
	Women's empowerment (SW06) (Human rights)	Project Owner ensures that there is no gender inequality while providing the job opportunities for the project operations, Will maintain and enforce the organizational policy to avoid any gender discrimination in the company.	+1	Company has employed one women resource in compliance with the equal remuneration and minimum wage act. GCC Verifier has cross checked this with employment records /21/ and confirms that the PO has willing to contribute towards women empowerment. PO has considered +1 score for this parameter and, it is verified as harmless.

<sup>27</sup> <https://thuvienphapluat.vn/van-ban/Tai-nguyen-Moi-truong/Decree-08-2022-ND-CP-elaboration-Articles-of-the-Law-on-Environmental-Protection-507203.aspx>

		Project owner also priorities the women employee at the project operation from the local community to empower them by providing the income sources which would not have been happened in the absence of the project activity.		
	Exploitation of Child labour (Human rights) (SW08)	Project owner will strictly monitor and ensures that no child labour is working at the site and no forced labour is working at the site.	+1	It is prohibited to provide employment to children below 15 years in any organization in Viet Nam. The HR department of PO also abide by these rules and regulation of Viet Nam. GCC Verifier team has cross checked the evidence /23, 21/ and also through the onsite audit confirms that there is no child labour working at the project site. PO has considered +1 score for this parameter and, it is verified as harmless.
<p><b>Negative Impacts:</b></p> <p>No negative impacts identified or verified for the project activity, which cannot be mitigated.</p> <p>Verification team confirms that the Project activity will not cause any net harm to the social safeguard and net score for project activity comes out to be +7. An appropriate monitoring plan has been put in place for the elements marked positive. The detailed matrix has been included in appendix 6 of the report in which PO has fulfilled the minimum requirement for Renewable energy projects (Solar) mentioned in appendix 1 of Environment and social Safeguard standard v 3.0 /B02-4/.</p>				

### D.12. Sustainable development Goals (SDG+)

<b>Means of Project Verification</b>	Desk Review and Interviews			
<b>Findings</b>	CAR 10 is raised and closed satisfactorily. Please refer to Appendix 4 for further details.			
<b>Conclusion</b>	The Project owner has chosen to apply for the United Nations Sustainable Development Goals (S+). The assessment of the impact of the project activity on the SDG's has been carried out in section F of the PSF. The project is expected to contribute 3 SDGs which are SDG 7, 8 and 13. The verification team confirms that the SDG chosen by the project owner is in compliance with the GCC Project sustainability standard V.2.1 /B02-5/ and is applicable to the Project activity and the monitoring procedure of each SDG is given in section F and B.7.1 of the PSF.			
	<b>UN- level SDGs</b>	<b>Project Level Description</b>	<b>Monitoring Procedure</b>	<b>GCC Verifier Assessment</b>

	<p><b>SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all.</b></p> <p>Target 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix. Indicator 7.2.1 Renewable energy share in the total final energy consumption.</p>	<p>Annually generate around 44,150 MWh of renewable energy using solar energy</p>	<p>Described in section D.3.7 of this report</p>	<p>The project activity contributes towards this goal by replacing the generation of electricity from fossil fuel dominated grid in baseline by renewable solar-based power generation. The contribution towards SDG goal is being monitored by the parameter 'EG<sub>PJ,y</sub>', quantity of net electricity supplied by the project plant / unit to the grid in the monitoring plan and is found adequate. This has been discussed under section D.3.7 of this report.</p>
	<p><b>SDG 8: Promote sustained inclusive, and sustainable economic growth, full and productive employment and decent work for all.</b></p> <p>Target 8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value Indicator 8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities.</p>	<p>Project creates new employment and generates income for people during the project lifetime Through Project activity economic development has been achieved in the project location by creating employment opportunities to the other allied services and indirect employment for men and women.</p>	<p>Described in section D.3.7 of this report</p>	<p>The contribution towards SDG goal is by providing employment by creating new employment and generated income for around 20 number of people during the project lifetime /21/. This is being monitored by the parameter 'Long-term jobs (&gt; 10 year) created/lost (SJ01)' in the monitoring plan and is found adequate. This has been discussed under section D.3.7 of this report.</p>

	<p><b>SDG 13: Take urgent action to combat climate change and its impacts.</b></p> <p>Target 13.2: Integrate climate change measures into national policies, strategies and planning</p>	<p>Average Reductions in Emissions (tCO<sub>2</sub>e) per unit of product due to project. 363,363 tCO<sub>2</sub>e over the crediting period for the project</p>	<p>Described in section D.3.7 of this report</p>	<p>The contribution towards SDG goal is being monitored by the parameter 'CO<sub>2</sub> emission reduction' in the monitoring plan and is found adequate. This has been discussed under section D.3.7 of this report.</p>
<p>The Project Owner has provided complete information in the PSF to demonstrate that the chosen SDG goals positively contribute to the UN SDGs as required by paragraph 19, 20 and 21 of Project Sustainability Standard /B02-5/.</p> <p>Based on the documentation review, the verification team can confirm that Project Activity is likely to contribute to the 3 United Nations Sustainable Development Goals (7, 8 and 13) and would have a positive impact, hence, is eligible to achieve additional SDG+ (Silver) certifications.</p> <p>The detailed matrix has been included in appendix 7 of the report in which PO has fulfilled the requirement for Project Sustainability Standard /B02-5/.</p>				

#### D.13. Authorization on Double Counting from Host Country (for CORSIA)

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	FAR 01 is raised. Please refer to Appendix 4 for further details.
<b>Conclusion</b>	<p>A declaration /30/ under section A.5 of the PSF /01-d/ has been included for offsetting the approved carbon credits (ACCs) for the entire crediting period from 09/05/2019 to 08/05/2029.</p> <p>GCC Verifier has also cross checked with other programs such as VCS /B08/, GS /B09/, CDM /B10/ and I-Rec registry /B11/ /B08/ and found the project activity is not registered in any other registry.</p> <p>The host country's attestation is yet to be obtained for authorization on double counting. The project owner has clarified the intent of use of carbon credits for CORSIA hence no double counting will take place.</p>

#### D.14. CORSIA Eligibility (C+)

<b>Means of Project Verification</b>	Desk Review and Interviews
<b>Findings</b>	CAR 02 is raised and closed satisfactorily. Please refer to Appendix 4 for further details. FAR 01 is raised.
<b>Conclusion</b>	<p>The project activity meets eligible criteria for CORSIA (C+) since the crediting period is after 01/01/2016 and the project is applying for registration under GCC which is one of the approved programmes under CORSIA.</p> <p>The verification team confirms that project activity is also likely to achieve following eligibility requirement:</p> <ol style="list-style-type: none"> <li>1. It will reduce a forecasted amount of greenhouse gases, since project activity is the implementation of renewable energy system.</li> <li>2. Likely to achieve Environmental No-net harm (E+ label) as discussed in section D.10.</li> <li>3. Likely to achieve Social No-net harm (S+ label) as discussed in section D.11.</li> </ol>

	4. Likely to achieve SDG+ label with silver Certification label. The project activity meets the CORSIA eligibility.
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## Section E. Internal quality control

The final project verification report prepared by the verification team was reviewed by an independent technical review team to confirm if the internal procedures established and implemented by CCIPL were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable GCC rules/requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team were independent of the verification team.

The technical review process may accept or reject the verification opinion or raise additional findings in which case these must be resolved before requesting for registration. The technical review process is recorded in the internal documents of CCIPL, and the additional findings gets included in the report. The final report passed by technical reviewer is approved by the authorized personal of Carbon Check and issued to PO and/or submitted for request for registration, as appropriate on behalf of CCIPL.

## Section F. Project Verification opinion

CC IPL was contracted by Kosher Climate India Private Limited for project verification on 20/12/2022 /33/ for the project activity “30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant”. The project verification was performed based on rules and requirements defined by GCC for the project activity.

The project activity is a solar power project, which results in reductions of CO<sub>2</sub>e emissions that are real, measurable and give long-term benefits to the mitigation of climate change. It is demonstrated that the project is not a likely baseline scenario and the emission reductions attributable to the project are, hence, additional to any that would occur in the absence of the project activity. The project correctly applies the approved baseline and monitoring ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0 /B01/ and is assessed against latest valid GCC Project Standard /B02-1/, GCC Verification Standard /B02-2/ and Environment and Social Safeguards Standard /B02-4/, Project-Sustainability-Standard /B02-5/ and/or other applicable GCC/CDM Decisions/Tools/Guidance/Forms.

The project activity is likely to achieve the anticipated emission reductions stated in the PSF provided the underlying assumptions do not change. The expected emission reductions (annual average) from the project activity are estimated to be 36,336 tCO<sub>2</sub>e/year over the 10 years crediting period starting from 09/05/2019 to 08/05/2029.

CC IPL has informed the project owners of the project verification outcome through the draft project verification report and final project verification report. The final project verification report contains the information with regard to fulfilment of the requirements for project verification, as appropriate.

CC IPL applied the following verification process and methodology using a competent verification team;

- The desk review of documents and evidence submitted by the project owner in context of the reference GCC rules and guidelines issued,
- Undertaking/conducting site visit, interview, or interactions with the representative of the project owner
- Reporting audit findings with respect to clarifications and non-conformities and the closure of the findings, as appropriate
- Preparing a draft verification opinion based on the auditing findings and conclusions
- Technical review of the draft project verification opinion along with other documents as appropriate by an independent competent technical review team.
- Finalization of the project verification opinion (this report)

Subject to closure of all the raised findings in Appendix 4 of this report, the GCC Project Verifier, Carbon Check (India) Private Ltd, verifies and certifies that the GCC Project Activity “30.24 MWp Phuoc Huu-Dien Luc 1 solar Power Plant”:

(a) has correctly described the Project Activities in the Project Submission Form (Version 05, dated 19/01/2024) including the applicability of the approved CDM methodology, ACM0002, version 21.0 /B01/ and meets the methodology applicability conditions, is additional and is expected to achieve the forecasted real and additional GHG emission reductions, complies with the monitoring methodology, has appropriately conducted local and global stakeholder consultation processes and has calculated emission reduction estimates correctly and conservatively;

(b) is likely to generate 44,150 MWh / year of electricity (for the fixed 10 years crediting period), as indicated in the PSF version 05 /01-d/, which are generated from existing baseline scenario of the national grid of Viet Nam in the absence of the Project Activity and complies with all applicable GCC rules, including ISO 14064-2 and ISO 14064-3, and therefore requests the GCC Program to register the Project Activity.

(c) is not (Subject to closure of all findings raised) likely to cause any net-harm to the environment and/or society and complies with the Environmental and Social Safeguards Standard, and therefore requests the GCC Program to register the Project Activity, which is likely to achieve the requirements of the Environmental No-net-harm Label (E+) and the Social No-net harm Label (S+); and

(d) is likely to contribute (Subject to closure of all findings raised) to the achievement of United Nations Sustainability Development Goals (SDGs), comply with the Project Sustainability Standard, and contribute to achieving a total of 3 SDGs, which is likely to achieve the silver SDG certification label (SDG+).

The project verification report describes a total of 19 findings, which include:

- 12 Corrective Action Requests (CARs);
- 06 Clarification Requests (CLs);
- 01 Further Action Required (FARs);

All CARs and CLs are resolved by the project owner. FAR is to be verified during 1<sup>st</sup> or subsequent verification.



## Appendix 1. Abbreviations

Abbreviations	Full texts
ACC	Approved Carbon Credits
ACC+	Approved Carbo Credit Label
BM	Build Margin
CAR	Corrective Action Required
CCIPL	Carbon Check India() Private Limited
CDM	Clean Development Mechanism
CL	Clarification Request
CM	Combined Margin
CORSIA	Carbon Offsetting and Reduction Scheme for International Aviation
DR	Document Review
E+	Environmental No net harm Label
EPP	Environmental Protection Plan
EMR	Energy Meter Reading
ERVVR	Emission Reduction Verification Report
EVN	Viet Nam Electricity
FAR	Forward Action Request
FRR	Feasibility Research Report
GCC	Global Carbon Council
GHG	Greenhouse Gas
GORD	Gulf Organization for Research and Development
GPS	Global Positioning System
GV	GCC Verifier
GWP	Global Warming Potential
HC	Host Country
HCA	Host Country Approval
I	Interview
ICAO	International Civil Aviation Organization
IMF	International Monetary Fund
IPCC	Intergovernmental Panel on Climate Change
ISO	International Organization for Standardization
LCMR	Low Cost Must Run
O&M	Operation and Maintenance
OM	Operating Margin
PO	Project Owner
PPA	Power Purchase Agreement
PSF	Project Submission Form
PVR	Project Verification Report
S+	Social No- net harm Label
SDG+	United Nation Sustainable Development Goal Label
UNFCCC	United Nations Framework Convention on Climate Change
VAT	Value Added Tax
VB	Verification Body
VDB	Viet Nam Development Bank

## Appendix 2.Competence of team members and technical reviewer



### Carbon Check (India) Private Limited

## Certificate of Competency

### Mr. Vijay Mathew

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 checked="" type="checkbox"/> Team Leader	<input checked="" type="checkbox"/> Technical Expert
<input checked="" type="checkbox"/> Technical Reviewer	<input type="checkbox"/> Health Expert	<input type="checkbox"/> Gender Expert	<input type="checkbox"/> Plastic Waste Expert
<input type="checkbox"/> CCB Expert	<input type="checkbox"/> Legal Expert	<input checked="" type="checkbox"/> Financial Expert	<input type="checkbox"/> Environmental, Health and Safety financial matters
<input checked="" type="checkbox"/> SDG+	<input checked="" type="checkbox"/> Social no-harm(S+)	<input checked="" type="checkbox"/> Environment no-harm(E+)	
<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 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	<input type="checkbox"/> TA 16.1		

<p><b>Issue Date</b></p> <p><b>5<sup>th</sup> December 2023</b></p> <p><i>Priya Suman</i></p> <hr/> <p><b>Ms. Priya Suman</b> Compliance Officer</p>	<p><b>Expiry Date</b></p> <p><b>31<sup>st</sup> December 2024</b></p> <p><i>Sanjay Agarwalla</i></p> <hr/> <p><b>Mr. Sanjay Kumar Agarwalla</b> Technical Director</p>
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**Revision History of the document:**

Revision date	Summary of changes
2022 <sup>1</sup>	Annual revision
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  
<sup>1</sup> Please refer to previous version of FM 7.9 for the revision history



## Carbon Check (India) Private Limited

### Certificate of Competency

**Mr. Rishi K Raychoudhury**

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 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 type="checkbox"/> CCB Expert                        | <input type="checkbox"/> Legal Expert                  | <input checked="" type="checkbox"/> Financial Expert        | <input type="checkbox"/> Environmental, Health and Safety financial matters |
| <input checked="" type="checkbox"/> SDG+                   | <input checked="" type="checkbox"/> Social no-harm(S+) | <input checked="" type="checkbox"/> Environment no-harm(E+) |                                                                             |
| <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           | <input type="checkbox"/> TA 16.1 |                                            |                                  |

**Issue Date**  
5<sup>th</sup> December 2023

**Expiry Date**  
31<sup>st</sup> December 2024

*Priya Suman*

**Ms. Priya Suman**  
Compliance Officer

*Sanjay Agarwalla*

**Mr. Sanjay Kumar Agarwalla**  
Technical Director

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<sup>1</sup> 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/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 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 type="checkbox"/> CCB Expert                          | <input type="checkbox"/> Legal Expert        | <input type="checkbox"/> Financial Expert        | <input type="checkbox"/> Environmental, Health and Safety financial matters |
| <input type="checkbox"/> SDG+                                | <input type="checkbox"/> Social no-harm(S+)  | <input type="checkbox"/> Environment no-harm(E+) |                                                                             |
| <input checked="" type="checkbox"/> Local Expert for Vietnam |                                              |                                                  |                                                                             |

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 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           | <input type="checkbox"/> TA 16.1 |                                  |                                  |

Issue Date  
5<sup>th</sup> December 2023

Expiry Date  
31<sup>st</sup> December 2024

*Priya Suman*

Ms. Priya Suman  
Compliance Officer

*Sanjay Agarwalla*

Mr. Sanjay Kumar Agarwalla  
Technical Director

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<sup>1</sup> 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/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 checked="" type="checkbox"/> Team Leader             | <input checked="" type="checkbox"/> Technical Expert                        |
| <input checked="" type="checkbox"/> Technical Reviewer     | <input type="checkbox"/> Health Expert                 | <input type="checkbox"/> Gender Expert                      | <input type="checkbox"/> Plastic Waste Expert                               |
| <input type="checkbox"/> CCB Expert                        | <input type="checkbox"/> Legal Expert                  | <input type="checkbox"/> Financial Expert                   | <input type="checkbox"/> Environmental, Health and Safety financial matters |
| <input checked="" type="checkbox"/> SDG+                   | <input checked="" type="checkbox"/> Social no-harm(S+) | <input checked="" type="checkbox"/> Environment no-harm(E+) |                                                                             |
| <input checked="" type="checkbox"/> Local Expert for India |                                                        |                                                             |                                                                             |

in the following Technical Areas:

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|--------------------------------------------|--------------------------------------------|----------------------------------|---------------------------------------------|---------------------------------------------|
| <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 checked="" 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           | <input type="checkbox"/> TA 16.1 |                                             |                                             |

Issue Date  
5<sup>th</sup> December 2023

Expiry Date  
31<sup>st</sup> December 2024

*Priya Suman*

Ms. Priya Suman  
Compliance Officer

*Sanjay Agarwalla*

Mr. Sanjay Kumar Agarwalla  
Technical Director

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CCIPL\_FM 7.9 Certificate of Competency\_V4.0\_112023

<sup>1</sup> Please refer to previous version of FM 7.9 for the revision history

### Appendix 3. Document reviewed or referenced

C	Author	Title	References to the document	Provider
/01/	Kosher India Limited Climate Private	a) Initial PSF: PSF-30.24MWp solar power project. b) Revised PSF : PSF-30.24MWp solar power project. c) Revised PSF- PSF-30.24MWp solar power project. d) Final PSF- PSF-30.24MWp solar power project.	Version 02, Dated 18/01/2023. Version 03, Dated 03/04/2023. Version 04, Dated 15/12/2023. Version 05, Dated 19/01/2024.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
/02/	Kosher India Limited Climate Private	a) Initial ER sheet - ER Sheet-30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant. b) Revised sheet – ER Sheet-30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant. c) Final ER sheet – ER Sheet-30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant	Version 01 29/06/2022 Version 02 11/05/2023 Version 03 15/12/2023	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
/03/	Kosher India Limited Climate Private	a) Initial IRR calculation spreadsheet- IRR- Sheet-30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant. b) Revised IRR calculation spreadsheet: IRR- Sheet-30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant. c) Final IRR calculation spreadsheet – IRR- Sheet-30.24 MWp Phuoc Huu-Dien luc 1 solar Power Plant.	Version 01 29/06/2022 Version 02 11/05/2023 Version 03 15/12/2023	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
/04/	Phuoc Huu Power Investment Joint Stock Company	Letter of authorization of project owner	20/11/2023	<input checked="" type="checkbox"/>
/05/	Phuoc Huu Power Investment Joint Stock Company	Incorporation Certificate of the Project Owner – Department of Planning and Investment	11/02/2017	<input checked="" type="checkbox"/>
/06/	Phuoc Huu Power Investment Joint Stock Company	Power Generation License / Clearance – Ministry of Industry and Trade (Electrical Regulation Department)	03/05/2019	<input checked="" type="checkbox"/>
/07/	Phuoc Huu Power Investment Joint	Technical Specification of Equipment:		<input checked="" type="checkbox"/>

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	Stock Company	Inverter – TMEIC PV module – Trina Solar Transformer – JSHP transformer		
/08/	Phuoc Huu Power Investment Joint Stock Company	Commissioning Certificate – Electricity Group of Viet Nam	09/05/2019	<input checked="" type="checkbox"/>
/09/	Phuoc Huu Power Investment Joint Stock Company	EPC contract PO & Dongfang Electric International Corporation.	10/11/2018	<input checked="" type="checkbox"/>
/10/	Phuoc Huu Power Investment Joint Stock Company	O&M contract PO self (CIFSR).	06/2018	<input checked="" type="checkbox"/>
/11/	Phuoc Huu Power Investment Joint Stock Company	Power Purchase Agreement – PO & Viet Nam Electricity Corporation	29/11/2018	<input checked="" type="checkbox"/>
/12/	Phuoc Huu Power Investment Joint Stock Company	Land acquisition document	02/08/2018	<input checked="" type="checkbox"/>
/13/	Joint Stock Commercial Bank for Foreign Trade of Viet Nam (Hanoi Branch)	Loan sanction letter	04/02/2021	<input checked="" type="checkbox"/>
/14/	Phuoc Huu Power Investment Joint Stock Company	Energy Meter Details Main Meter- 19030312 Check Meter - 19025826, 19026024, 19026059, 19026058		<input checked="" type="checkbox"/>
/15/	Mien Nam Electrical Testing company	Calibration certificates	22/03/2023	<input checked="" type="checkbox"/>
/16/	Electricity Buying and Selling Company Viet Nam	Joint Meter Reading	2019, 2020, 2021, 2022	<input checked="" type="checkbox"/>
/17/	Electricity Buying and Selling Company Viet Nam	Copy of monthly invoices	2019, 2020, 2021, 2022	<input checked="" type="checkbox"/>
/18/	Power Construction Consulting Joint Stock Company	Accident Register		<input checked="" type="checkbox"/>
/19/	Phuoc Huu Power Investment Joint Stock Company	Records of Local Stakeholder consultation (with EIA report)	02/05/2018	<input checked="" type="checkbox"/>
/20/	Phuoc Huu Power Investment Joint Stock Company	EIA report	06/2018	<input checked="" type="checkbox"/>
/21/	Phuoc Huu Power Investment Joint Stock Company	Employment Records	20 no.	<input checked="" type="checkbox"/>
/22/	Phuoc Huu Power Investment Joint Stock Company	Training Records (2023)		<input checked="" type="checkbox"/>
/23/	Phuoc Huu Power Investment Joint Stock Company	HR policy	15/07/2019	<input checked="" type="checkbox"/>
/24/	CC IPL	On site Audit Notes	22/02/2023	<input checked="" type="checkbox"/>

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/25/	Ministry of Natural Resources and Environment	Grid emission factor data (2022)		<input checked="" type="checkbox"/>
/26/	Ninh Thuan Province People's Committee	Interest Rate (2018)		<input checked="" type="checkbox"/>
/27/	Ministry of Industry and Trade (Electricity and Renewal Energy)	CIFSR	06/2018	<input checked="" type="checkbox"/>
/28/	Ministry of Industry and Trade (Electricity and Renewal Energy)	Basic Design approval	31/05/2018	<input checked="" type="checkbox"/>
/29/	Phuoc Huu Power Investment Joint Stock Company	Water consumption records (2022)		<input checked="" type="checkbox"/>
/30/	Phuoc Huu Power Investment Joint Stock Company	Declaration on double counting PO	29/03/2023	<input checked="" type="checkbox"/>
/31/	Phuoc Huu Power Investment Joint Stock Company	Actual Cost	10/10/2019	<input checked="" type="checkbox"/>
/32/	Vietnamese Government	OSH Guideline		<input checked="" type="checkbox"/>
/33/	CC IPL	Contract for Project Verification (CC IPL & PO)	20/12/2022	<input checked="" type="checkbox"/>
/34/	Phuoc Huu Power Investment Joint Stock Company	Waste Management and records	2020	<input checked="" type="checkbox"/>
/35/	Phuoc Huu Power Investment Joint Stock Company	Guiding Regulation on Management, Use and Depreciation of Fixed Assets		<input checked="" type="checkbox"/>
/36/	Phuoc Huu Power Investment Joint Stock Company	EIA Approval	15/06/2018	<input checked="" type="checkbox"/>
/37/	Phuoc Huu Power Investment Joint Stock Company	Basic Design Report	06/2018	<input checked="" type="checkbox"/>
/B01/	CDM	CDM Methodology: ACM002 Grid-connected electricity generation from renewable sources, Version 21.0		<input checked="" type="checkbox"/>
/B02/	GCC	1. GCC Project Standard, version 3.1 2. GCC Verification Standard, version 3.1 3. GCC Program Definition, version 3.1 4. Environment-and-Social-Safeguards Standard, version 3.0 5. Project-Sustainability-Standard, version 3.0 6. Clarification No. 1 v1.3 7. Clarification No. 03 v1.0		<input checked="" type="checkbox"/>



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/B03/	GCC	PSF template v4.0		<input checked="" type="checkbox"/>
/B04/	CDM	a) Methodological tool 07: Tool to calculate the emission factor for an electricity system, version 07.0 b) Methodological tool 05: Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation, version 3.0		<input checked="" type="checkbox"/>
/B05/	CDM	Methodological tool 1: Tool for demonstration and assessment of Additionality, version 07.0		<input checked="" type="checkbox"/>
/B06/	CDM	Methodological tool 24: Common Practice, version 03.1		<input checked="" type="checkbox"/>
/B07/	CDM	Methodological tool 27: Investment Analysis, version 12.0		<input checked="" type="checkbox"/>
/B08/	Website	CDM website: CDM: CDM-Home (unfccc.int) GS website: Impact Registry   The Gold Standard VCS website: Home - Verra I-REC registry: <a href="#">Device Register Table - IREC (evident.app)</a>		<input checked="" type="checkbox"/>

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

Table 1. CLs from this Project Verification

<b>CL ID</b>	01	<b>Section no.</b>	D.1	<b>Date:</b> 13/03/2023
<b>Description of CL</b>				
<i>Project owner is requested to provide LOA/LON to cross check the ownership of the project activity.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
<i>The LOA has been attached by the PO.</i>				
<b>Documentation provided by Project Owner</b>				
1. LOA				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
<i>PO has provided LOA which clearly establish the ownership of the project activity. Hence, CL is closed.</i>				
<b>CL ID</b>	02	<b>Section no.</b>	D.2	<b>Date:</b> 13/03/2023
<b>Description of CL</b>				
<i>In section A.1 of the PSF, Project owner is requested to provide evidence of:</i>				
<ol style="list-style-type: none"> <li>1.) <i>Power Purchase agreement.</i></li> <li>2.) <i>Clearance for erection of distribution &amp; transmission line.</i></li> <li>3.) <i>Estimation of average electricity generation (PLF) as per annex 11 EB 48.</i></li> <li>4.) <i>Commissioning certificate.</i></li> <li>5.) <i>Land purchase.</i></li> </ol>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
<ol style="list-style-type: none"> <li>1. <i>The PO has shared the PPA documents.</i></li> <li>2. <i>The PO submitted the Electrical Activities License for erection of distribution &amp; transmission line.</i></li> <li>3. <i>The PLF has been sourced from the Project Feasibility Report which is submitted to the government for the project approval which is in line with the annex 11 EB 48.</i></li> <li>4. <i>The Commissioning certificate has been shared.</i></li> <li>5. <i>Land Cost has been sourced from the Project Feasibility Report.</i></li> </ol>				
<b>Documentation provided by Project Owner</b>				
<ol style="list-style-type: none"> <li>1. <i>Power Purchase Agreement</i></li> <li>2. <i>Electrical Activities License</i></li> <li>3. <i>Project Feasibility Report</i></li> <li>4. <i>Commissioning Certificate</i></li> </ol>				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
<i>1.) PO has provided PPA which is signed on 29/11/2018 between PO and EVN. Hence, CL is closed.</i>				

<p>2.) PO has provided electrical activity license with reference no. 109/GP-DTDL which establish the clearance for erection of transmission and distribution line and connection of project activity with national grid. Hence, CL is closed.</p> <p>3.) PO has referred third party project feasibility Report for estimation of electricity generation which is acceptable as per annex 11 EB 48. Hence, CL is closed.</p> <p>4.) PO has provided commissioning certificate of the project activity according to that project activity is commissioned on 09/05/2019. Hence, CL is closed.</p> <p>5.) PO has replied that land cost is sourced from project feasibility report. However, Land cost is not traceable in the project feasibility report. PO is requested to provide page no. of the feasibility report where land cost is mentioned. Hence, CL is open.</p>
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<b>Project Owner's response</b>	<b>Date: 12/12/2023</b>
<p>5. As per "Construction Investment Feasibility Study Report" (CIFSR) page number 109, land cost is included in "Compensation and Support Expenses, Resettlement" Costs and the same page number has been updated in the PSF and in IRR sheet as well.</p>	
<b>Documentation provided by Project Owner</b>	
Construction Investment Feasibility Study Report (CIFSR)	
<b>GCC Project Verifier assessment</b>	<b>Date: 27/12/2023</b>
<p>PO has referred CIFSR for input parameters for investment analysis and as per CIFSR land cost is considered in "Compensation, Support Expenses and Resettlement cost". PO has revised section B.3.5 of PSF and IRR calculation spreadsheet accordingly. Hence, CL is closed.</p>	

<b>CL ID</b>	03	<b>Section no.</b>	D.3.5	<b>Date:</b> 13/03/2023
<b>Description of CL</b>				
<p>1.) In section B.5 of the PSF, PO is requested to provide credible evidence along with precise reference viz. page no. for all input values considered at the time of decision making in compliance with tool 27.</p> <p>2.) PO is requested to provide justification for consideration of 10/11/2018 as the project start date as per tool 27.</p> <p>3.) In section B.5 of the PSF in sensitivity analysis, the reference for parameters is DPR while for IRR calculation is TDD. PO is requested to justify the same.</p>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
<p>1) The input values considered for the investment analysis are sourced from DPR (Project Feasibility Report) dated 01/06/2018 and from credible public references which are available at the time of investment decision making date 10/11/2018 which is in line with the Tool 27. PO has updated the source of all the input parameters considered along with precise reference viz. page no. In the section B.5.</p> <p>2) The date of signing of EPC contract date (10/11/2018) is the real action taken by the project owner towards the investment of the project. Hence this date is considered as the project investment decision date which is inline with the tool 27.</p> <p>3)The source of input values is sourced from DPR. TDD is the typo error and the necessary correction has been made.</p>				
<b>Documentation provided by Project Owner</b>				
<p>1. Updated IRR 2. Updated PSF</p>				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023

<p>1.) PO has mentioned that real action towards the investment of the project activity is taken when EPC contract is signed which is acceptable as per tool 27. Hence, CL is closed.</p> <p>2.) PO has submitted a project feasibility report from which input values of IRR calculation is sourced whereas PO has mentioned DPR as the source for the input parameters for post tax equity IRR calculation in section B.5 and IRR calculation spreadsheet. PO is requested to maintain consistency and rectify the same. Hence, CL is open.</p> <p><i>Additional CL</i></p> <p>3.) PO is requested to provide Credible evidence for consideration of conversion of VND to USD.</p>	
<b>Project Owner's response</b>	<b>Date: 12/12/2023</b>
<p>2. "Construction Investment Feasibility Study Report" (CIFSR) has been prepared by the third party and the same document has been used financial analysis. Corrections have been made over entire PSF from "DPR" to "CIFSR" and the same changes has been made in IRR sheet also.</p> <p>3. Conversion factor from VND to USD has been sourced from "Construction Investment Feasibility Study Report" (CIFSR) and the same has been updated in the PSF and in IRR sheet.</p>	
<b>Documentation provided by Project Owner</b>	
Construction Investment Feasibility Study Report (CIFSR)	
<b>GCC Project Verifier assessment</b>	<b>Date: 27/12/2023</b>
<p>2) PO has rectified the reference document for input parameters of financial investment analysis and accordingly revised section B.3.5 of the PSF and IRR calculation spreadsheet. Hence, CL is closed.</p> <p>3) PO has sourced the conversion of VND to USD from CIFSR, which Verifier found appropriate. Hence, CL is closed.</p>	

<b>CL ID</b>	04	<b>Section no.</b>	D.3.7	<b>Date:</b> 13/03/2023
<b>Description of CL</b>				
<p>1.) In section B.7.1 of the PSF, PO is requested to provide information on the following with evidence:</p> <ul style="list-style-type: none"> <li>a) Type of meter.</li> <li>b) Location of meter.</li> <li>c) Accuracy &amp; Serial No.</li> <li>d) Calibration certificate of meters</li> </ul> <p>2.) In section B.7.1 of the PSF, PO is requested to provide records maintained &amp; circulars mentioned for all applicable parameters of E+, S+ &amp; SDG<sub>s</sub>.</p> <p>3.) In section B.7.4 of the PSF, PO is requested to provide evidence for:</p> <ul style="list-style-type: none"> <li>a) O&amp;M Contract</li> <li>b) O&amp;M Manual</li> <li>c) Joint meter sheet</li> <li>d) Monthly Invoices</li> </ul>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023

<p>1. The PO has added the following details in section B.7.1 of the PSF and the evidences were provided.                  2. The PO has updated all the parameters of E+, S+ &amp; SDGs in section B.7.1 of the PSF.                  3. The PO has removed the O&amp;M Manual and updated the section B.7.1 &amp; B.7.4 in the PSF.</p>	
<b>Documentation provided by Project Owner</b>	
<p>1. Meter Calibration Report                  2. O&amp;M Contract                  3. JMR Sheet                  4. Invoices</p>	
<b>GCC Project Verifier assessment</b>	<b>Date: 16/06/2023</b>
<p>1.) PO has provided details about type of meter, location of meter, accuracy &amp; serial no. in section B.7.1 of the revised PSF along with calibration certificate of the energy meters. Hence, CL is closed.</p> <p>2.) PO has not provided supporting documents for parameters EL02, EL04, EL06, EW02, SJ01, SJ02, SJ04, SHS02, SHS03, SHS08, SE01, SW02, SW06, SW08 of E+ and S+ parameters. PO is requested to provide credible evidence. Hence, CL is open.</p> <p>3.) PO has redrafted section B.7.4 of the PSF and removed the requirement of O&amp;M manual from other monitoring plan. Moreover, PO has provided only JMR and Invoices. PO is requested to submit O&amp;M contract of the project activity. Hence, CL is open.</p>	
<b>Project Owner's response</b>	<b>Date: 12/12/2023</b>
<p>2. For E+ and S+: Hazardous waste agreement and monitoring records (EL02 &amp; EL04 &amp; EL06), Ground water Consumption records (EW02), List of Employees (SJ01 &amp; SW06 &amp; SW08), Medical Checkup records (SHS02), Incident/Accident Register (SHS03), Grievance Record (SJ04), Domestic Waste records (SHS08), Training Records (SE01), CSR Logbook (SW02), Battery Waste (EL05).                  3. The project activity has in-house O&amp;M team; the O&amp;M cost has been provided in the audited financial report.</p>	
<b>Documentation provided by Project Owner</b>	
<p>Hazardous waste agreement and monitoring records                  Ground water Consumption records                  List of Employees                  Medical Checkup records                  Incident/Accident Register                  Grievance Record                  Domestic Waste records                  Training Records                  CSR Logbook                  Battery Waste</p>	
<b>GCC Project Verifier assessment</b>	<b>Date: 27/12/2023</b>
<p>2) PO has submitted records for the above mentioned parameters of Environmental and Social Safeguard i.e., section E.1 and E.2 of the PSF. Hence, CL is closed.</p> <p>3) PO has kept own O&amp;M team and O&amp;M cost is sourced from CIFSR which is 1% of the initial investment which verifier found appropriate. Hence, CL is closed.</p>	

<b>CL ID</b>	05	<b>Section no.</b>	D.5	<b>Date:</b> 13/03/2023
<b>Description of CL</b>				
In section D.2 of the PSF, PO is requested to provide copy of EIA approval.				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
The PO has provided the EIA approval document.				
<b>Documentation provided by Project Owner</b>				
1. EIA Approval				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023

*PO has provided EIA approval letter along with EIA report. Hence, CL is closed.*

<b>CL ID</b>	06	<b>Section no.</b>	D.6	<b>Date:</b> 13/03/2023
<b>Description of CL</b>				
<i>In section G.1 of the PSF, PO is requested to provide evidence for conducting LSC including invitation letter to the stakeholders, Attendance sheet, MoM, Photographic/Videographic evidence.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
<i>The List of attendees has been provided in the PSF and other meeting details are mentioned in the EIA report provided.</i>				
<b>Documentation provided by Project Owner</b>				
1. EIA Report				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
<i>PO has conducted LSC as part of EIA and provided attendance sheet and MoM for the same which is acceptable as per para. 70 of section G.1 of PSF template filling instruction. Hence, CL is closed.</i>				

Table 2. CARs from this Project Verification

<b>CAR ID</b>	01	<b>Section no.</b>	D.2	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
1.) <i>In section A.3 of PSF, Project owner is requested to update the technical description &amp; provide credible evidence as per PSF filling template section A.3, Para. 6 &amp; 8.</i>				
2.) <i>In appendix section of the PSF, project owner is requested to fill the all-appendix section as per general instruction para. 14 of the PSF template.</i>				
3.) <i>Project owner is requested to provide all supporting documents in English as per general instruction of PSF template para. 11, along with the original copy of the documents.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
1.) <i>The PO has updated the technical specification in section A.3 of the PSF and provided credible evidence as per PSF filling template section A.3, Para. 6 &amp; 8.</i>				
2.) <i>The PO has updated the appendix section as per general instruction para. 14 of the PSF template.</i>				
<b>Documentation provided by Project Owner</b>				
1. Technical Specification Datasheet				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
1.) <i>PO has updated the technical description of the installed equipment in section A,3 of the revised PSF. However, the detail of the inverter is not in line with the submitted technical specification document. Hence, CAR is open.</i>				
2.) <i>PO has made the necessary changes in all appendix sections of the revised PSF. Hence, CAR is closed.</i>				
<i>Additional CAR</i>				
3.) <i>During on site visit, GCC verifier found out that commissioning of the project activity is on 09/05/2019 and same is verified from submitted commissioning certificate. However, PO has mentioned the commissioning date as 05/09/2019 throughout the revised PSF. PO is requested to rectify the same.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 12/12/2023
1. <i>Technical Specification of Inverters installed at the project site has been updated in the PSF under section A.3 and relevant technical specifications has been submitted.</i>				

3. The commissioning date (09/05/2019) in line with the commissioning certificate has been updated throughout the PSF.
<b>Documentation provided by Project Owner</b>
Updated PSF.
<b>GCC Project Verifier assessment</b> <span style="float: right;"><b>Date:</b> 27/12/2023</span>
1) PO has revised section A.3 of the PSF and included appropriate details on installed inverters at the project site. Hence, CAR is closed.
3) PO has rectified the commissioning date of the project activity throughout the PSF. Hence, CAR is closed.

<b>CAR ID</b>	02	<b>Section no.</b>	D.14	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
<i>In section A.6 of the PSF the reference provided for the CORSIA emission unit eligibility criteria requirement is not in working condition.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
<i>The PO has rectified the reference for CORSIA emission unit eligibility criteria requirement in the section A.6 of the PSF.</i>				
<b>Documentation provided by Project Owner</b>				
1. Updated PSF				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
<i>PO has made the necessary changes in section A.6 of the revised PSF. Hence, CAR is closed.</i>				

<b>CAR ID</b>	03	<b>Section no.</b>	D.3.1	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
1.) Methodology version applied in the PSF is not consistent with the latest version available on the CDM website at the time of GSC. PO is requested to rectify the same.				
2.) In section B.1 of the PSF, Project owner is requested to mention complete description of the tool applied.				
3.) Project Owner is requested to use the latest version of the tool 27 consistently throughout the PSF.				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
1) As per Project standard – v3.1 Para 26, the latest versions of all documents which are available at the time of uploading the project documentation for Global Stakeholder Consultation (GSC) of the Project Submission to be used. At the time of initial submission, the latest versions of the methodology ACM0002 version 20 have been applied consistently throughout the PSF.				
2) The PO has updated the description of the tools applied as per the methodology of ACM0002 in the section B.1 of the PSF.				
3) The latest version of the tool 27(version 12.0) has been consistently maintained throughout the PSF..				
<b>Documentation provided by Project Owner</b>				
1. Updated PSF				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
1.) PO has considered the version of applied methodology available at the time of listing on GCC portal and it's satisfying the requirement of project standard para 26. v3.1. Hence, CAR is closed.				
2.) PO has made the necessary changes in section B.1 of the revised PSF. Hence, CAR is closed.				
3.) PO has considered the latest version of Tool 27 available at the time of listing on GCC portal and it's satisfying the requirement of project standard para 26. v3.1. Hence, CAR is closed.				

<b>CAR ID</b>	04	<b>Section no.</b>	D.3.1	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
<i>In section B.2, PO is requested to provide the applicability condition of the methodology, tool 7 and tool 27 as per the version available at the time of GSC.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
<i>As per Project standard – v3.1 Para 26, the latest versions of all documents which are available at the time of uploading the project documentation for Global Stakeholder Consultation (GSC) of the Project Submission to be used. At the time of initial submission, the latest versions of the methodology ACM002 version 20, Investment analysis version 11 and Tool to calculate the emission factor for an electricity system version 7 have been applied consistently throughout the PSF.</i>				
<b>Documentation provided by Project Owner</b>				
1. Updated PSF				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
<i>PO has rectified the applicability condition of applied methodology and tool 27 as per version available at the time of listing on GCC portal and it's satisfying the requirement of project standard para 26. v3.1. Hence, CAR is closed.</i>				

<b>CAR ID</b>	05	<b>Section no.</b>	D.3.5	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
1.) <i>In section B.5 of PSF, Project owner is requested to consider the default benchmark value as per latest version of tool 27 available at the time of GSC.</i>				
2.) <i>In the Section B.5 of the PSF, the reference mentioned for the Debt Repayment Tenure and Moratorium is erroneous.</i>				
3.) <i>In section B.5 of the PSF, in common practice analysis project owner is requested to provide appropriate information with credible evidence about other project activity and make correction in calculation of factor 'F'.</i>				
4.) <i>In section B.5 of the PSF, under sensitivity analysis the unit of tariff quoted in cent USD/kWh. PO is requested to maintain the same as per PPA.</i>				
5.) <i>In IRR spreadsheet provided by PO, It is seen that in interest &amp; expanses sheet the values are considered in INR, however, the other values are considered in USD Million. PO is requested to maintain the consistency in units.</i>				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
1) <i>As per Project standard – v3.1 Para 26, the latest versions of all documents which are available at the time of uploading the project documentation for Global Stakeholder Consultation (GSC) of the Project Submission to be used. At the time of initial submission, PO has considered the default Benchmark as per latest version 11 of tool 27 and have been applied consistently throughout the PSF.</i>				
2) <i>The IRR sheet has now been updated by the PO.</i>				
3) <i>The Details of identified projects along with the evidence under common practice analysis has been provided in the section B.5 of the PSF.</i>				
4) <i>PO has corrected the tariff unit in sensitivity analysis section B.5 of the PSF and now it is inline with the PPA.</i>				
5) <i>The PO has modified the value which were considered in INR to USD million in interest and expanses sheet in IRR spreadsheet. Hence, the consistency of the unit is maintained throughout the IRR.</i>				
<b>Documentation provided by Project Owner</b>				
1. Updated IRR				
2. Updated PSF				



<b>GCC Project Verifier assessment</b>	<b>Date: 16/06/2023</b>
<p>1.) PO has considered the version of Tool 27 available at the time of listing on GCC portal and it's satisfying the requirement of project standard para 26. v3.1. Hence, CAR is closed.</p> <p>2.) PO has referred Vietnamese government document no. 30/2006/QD-BCN of Ministry of Industry for reference of Debt Repayment Tenure and Moratorium which is acceptable as credible reference. Hence, CAR is closed.</p> <p>3.) PO has made necessary changes in common practice analysis of section B.5 and provided details of considered other project activity. Hence, CAR is closed.</p> <p>4.) PO has corrected unit of tariff and made it as per PPA. Hence, CAR is closed.</p> <p>5.) PO has rectified the IRR sheet and rectify the values in one unit for interest and expenses. Hence, CAR is closed.</p> <p>Additional CAR</p> <p>6.) PO is requested to provide weblink for all regulation/policies mentioned in National/sectoral policies &amp; regulations in section B.5 of the revised PSF.</p> <p>7.) PO has mentioned investment decision date as 31/01/2019 in section B.5 under step 2b whereas in response to CL 03 (2) PO has mentioned the investment decision date as EPC date which is 10/11/2018. PO is requested to rectify the same.</p> <p>8.) PO is requested to crosscheck the value of Variation required to reach benchmark for tariff, PLF and Project cost in Sensitivity analysis.</p>	
<b>Project Owner's response</b>	<b>Date: 12/12/2023</b>
<p>6. Under section B.5 of the PSF, weblink for regulations/policies mentioned in National/sectoral policies and regulations have been updated.</p> <p>7. In general, dossier of documents (CIFSR - Construction Investment Feasibility Study Report, Basic Design Report), will be submitted to competent authority and basic design approval will be awarded and the date of approval will be considered as investment decision date. However, the CIFSR is dated subsequent to BDR approval, hence the date of major signed contract (EPC) is considered as investment decision date for the project activity. Hence EPC document has been referred as Investment Decision Date and updated the same in PSF. For financial analysis, every parameter has been considered from CIFSR which is available during the investment decision date.</p> <p>8. "Sensitivity Analysis" in the PSF have been updated as per the IRR analysis.</p>	
<b>Documentation provided by Project Owner</b>	
Updated PSF.	
<b>GCC Project Verifier assessment</b>	<b>Date: 27/12/2023</b>
<p>6) PO has provided weblink for the National/Sectoral polices and regulations in section B.3.5 of the PSF. Hence, CAR is closed.</p> <p>7) PO has considered the EPC signed date as investment decision date and input values are considered from CIFSR, which verifier found appropriate. Hence, CAR is closed.</p>	

8) PO has revised the sensitivity analysis in section B.3.5 of the PSF which is found appropriate. Hence, CAR is closed.

<b>CAR ID</b>	06	<b>Section no.</b>	D.3.5/D.3.6/D.3.7	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
In section B.5, B.6.1 & B.7.4 of the PSF, Project owner is requested to use notation for ownership as Project owner or PP throughout the PSF.				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
The PO has rectified the section B.5, B.6.1 and B.7.4 and notation for ownership is applied consistently throughout the PSF.				
<b>Documentation provided by Project Owner</b>				
Updated PSF				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
PO has made the necessary changes in section B.5, B.6.1 and B.7.4 of the revised PSF. Hence, CAR is closed.				

<b>CAR ID</b>	07	<b>Section no.</b>	D.3.6	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
1.) In section B.6.2 of the PSF, PO is requested not to leave the table empty.				
2.) In section B.6.3 of the PSF, project owner is requested to mention appropriate value of $EF_{grid,CM,y}$ in baseline emission calculation.				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
1) The PO has updated Data and parameters fixed ex ante table in the section B.6.2. of the PSF.				
2) In section B.6.3 of PSF, $EF_{grid,CM,y}$ in baseline emission calculation value has been corrected.				
<b>Documentation provided by Project Owner</b>				
Updated PSF				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
1.) PO has made the necessary changes in section B.6.2 of the revised PSF. Hence, CAR is closed.				
2.) PO has made the necessary changes in section B.6.3 of the revised PSF. Hence, CAR is closed.				

<b>CAR ID</b>	08	<b>Section no.</b>	D.3.7	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
1.) In section B.7.1 of the PSF, project owner is requested to include the details of meters in tabular form as per PSF filling template				
2.) In table for Data/parameter of "solid waste pollution from end-of-life products / equipments", PO is requested to mention legal/regulatory/corporate limits as per EL06 of section E.1.				
3.) The monitoring parameter name in table for SE01 of section E.2 is not appropriate.				
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023
1) The meter details has been included in section B.7.1 section of the PSF.				
2)The PO has updated the data/parameter of "solid waste pollution from end-of-life products / equipment" in section B.7.1 of the PSF.				
3) The PO has rectified the monitoring parameter name in the table for SE01 section E.2 of the PSF.				
<b>Documentation provided by Project Owner</b>				
Updated PSF				

<b>GCC Project Verifier assessment</b>		<b>Date:</b> 16/06/2023
<p>1.) PO has provided details of energy meters in section B.7.1 of the revised PSF. However, the serial no. and accuracy class of energy meters are not as per on site visit observation. Also, PO has mentioned details of 4 energy meters, PO is requested to include only those energy meters details which are used for emission reduction calculation. Hence, CAR is open.</p> <p>2.) PO has made the necessary changes in data/parameter of “solid waste pollution from end-of-life products / equipment” in section B.7.1 of the revised PSF. Hence, CAR is closed.</p> <p>3.) PO has made the necessary changes in the monitoring table for parameter SE01 of section E.2 of the revised PSF. Hence, CAR is closed.</p>		
<b>Project Owner’s response</b>		<b>Date:</b> 12/12/2023
<p>1. The details of billing energy meters (171 C &amp; 171 DP) located at EVN substation which is used for the emission reduction calculation, such as serial numbers, accuracy class and calibration details has been updated along with other back up meters available at the pooling substation in sections B.7.1 and B.7.4 of the PSF.</p>		
<b>Documentation provided by Project Owner</b>		
Updated PSF		
<b>GCC Project Verifier assessment</b>		<b>Date:</b> 27/12/2023
PO has rectified meters details in section B.7.1 and B.7.4 of the PSF which is found appropriate by the verifier. Hence, CAR is closed.		

<b>CAR ID</b>	09	<b>Section no.</b>	D.10/D.11	<b>Date:</b> 13/03/2023
<b>Description of CAR</b>				
<p>1.) PO is requested to update the section E.1 &amp; E.2 as per appendix 01, para. 22.f and 23.e of the Environment &amp; social safeguards standard also include added parameters for monitoring in section B.7.1.</p> <p>2.) In section E.2 of the PSF, PO is requested to justify the appropriateness of consideration of Description no. 1 &amp; 3 in Harmless column of parameter SW02.</p> <p>3.) In section E.1 of the PSF, Project owner is requested to give appropriate explanation for environment natural resources category (ENR02, ENR03, ENR05).</p>				
<b>Project Owner’s response</b>				<b>Date:</b> 16/05/2023
<p>1) The PO has updated the section E.1 &amp; E.2 as per appendix 01, para. 22.f and 23.e of the Environment &amp; social safeguards standard also updated the parameters for monitoring in section B.7.1. of the PSF.</p> <p>2) The parameter SW02 is harmless since the project activity has a positive impact i.e., the project provides the employment opportunities to the local people and few community development activities and the description for the same has been modified accordingly in the section E.2 of the PSF.</p> <p>3)The anticipated impacts of the E.1 parameters of ENR02, ENR03 and ENR05 has been modified with appropriate explanation.</p>				
<b>Documentation provided by Project Owner</b>				
Updated PSF.				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023
<p>1.) PO has not included parameter EL08 and CW13 in section E.1 and E.2 respectively of the revised PSF as per appendix 1 of Environment &amp; social safeguards standard v3.0. Hence, CAR is open.</p> <p>2.) PO has made the necessary changes in the Harmless column of parameter SW02 of section E.2 of the revised PSF. Hence, CAR is closed.</p>				

<p><b>3.) PO has made the necessary changes in section E.1 of the revised PSF for parameters ENR02, ENR03 and ENR05. Hence, CAR is closed.</b></p> <p><i>Additional CAR</i></p> <p><b>4.) PO is requested to maintain consistency for marking the parameters which are not applicable. PO is requested to use either N/A or hyphen for filling the blocks for section E.1, E.2 and F of the revised PSF.</b></p>	
<b>Project Owner's response</b>	<b>Date: 12/12/2023</b>
<p>1. The parameter EL08 has been considered and addressed the same and the parameter SW13 "Avoidance of forced eviction and/or partial physical or economic displacement of IPLCs (human rights)" does not take place during the entire project, during leasing of land project owner has made sure that land doesn't belong to any indigenous community and upon setting of project, proper settlement has been done for the land owners and hence the parameter does not impart major impact and it is considered as not applicable.</p> <p>4. Under sections E.1, E.2 and F, the parameters which are not considered are marked as "Not Applicable" throughout the PSF in line with Environment and Social Safeguards, version 3.0.</p>	
<b>Documentation provided by Project Owner</b>	
Updated PSF	
<b>GCC Project Verifier assessment</b>	<b>Date: 27/12/2023</b>
<p>1) PO has included parameter EL 08 to monitor during whole crediting period. However, parameter CW 13 is not considered by PO as PO kept the parameter check during land leasing as land doesn't belong to any indigenous community and land owners were compensated appropriately during project installation. Hence, CAR is closed.</p> <p>4) PO has made the required changes in section E.1, E.2 and F of the PSF. Hence, CAR is closed.</p>	

<b>CAR ID</b>	10	<b>Section no.</b>	D.12	<b>Date:</b>	13/03/2023
<b>Description of CAR</b>					
<i>In section F of the PSF, Project owner is requested to give appropriate explanation for goal 9 of SDGs.</i>					
<b>Project Owner's response</b>				<b>Date:</b> 16/05/2023	
<i>The PO has updated the section F of PSF as per Project Sustainability Standard guidelines and hence removed SDG Goal 9. Since, our project does not contribute to the SDG Goal 9.</i>					
<b>Documentation provided by Project Owner</b>					
1. Updated PSF.					
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 16/06/2023	
<i>PO has reassessed the contribution of the project activity in United Nation Sustainable Development Goals and removed the claim of SDG 9 as project activity is not contributing according to indicators of SDG 9. Hence, CAR is closed.</i>					

<b>CAR ID</b>	11	<b>Section no.</b>	D.3.6/D.4	<b>Date:</b>	16/06/2023
<b>Description of CAR</b>					
<i>In section C of the revised PSF, the start date of the project activity is not as per commissioning certificate of the project activity. PO is requested to rectify the same.</i>					
<b>Project Owner's response</b>				<b>Date:</b> 12/12/2023	
<i>The start date of the project activity is the date of commissioning certificate date i.e., 09/05/2019 and the same has been updated under section C of the PSF.</i>					
<b>Documentation provided by Project Owner</b>					
Updated PSF.					
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 27/12/2023	
<i>PO has revised the start date of the project activity as per commissioning certificate of the project activity. Hence, CAR is closed.</i>					

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<b>CAR ID</b>	12	<b>Section no.</b>	D.3.6	<b>Date:</b> 16/06/2023
<b>Description of CAR</b>				
<p>1.) In section B.6.4 of the revised PSF and ER calculation spreadsheet, the start date of estimation of emission reduction is not as per commissioning certificate of project activity. PO is requested to rectify the same.</p> <p>2.) PO is requested to remove the round down from baseline emission and maintain equal decimal point for OM and BM.</p>				
<b>Project Owner's response</b>				<b>Date:</b> 12/12/2023
<p>1. Under section B.6.4, the start date of estimation of emission reduction as per commissioning certificate i.e., 09/05/2019 has been updated both in PSF and ER sheet accordingly.</p> <p>2. For baseline emission calculations, OM and BM values has been updated accordingly.</p>				
<b>Documentation provided by Project Owner</b>				
Updated PSF				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> 27/12/2023
<p>1) PO has revised the date of estimation of emission reduction as per commissioning certificate of the project activity and accordingly revised section B.6.4 of the PSF. Hence, CAR is closed.</p> <p>2) PO has made the necessary changes in PSF and ER calculation spreadsheet. Hence, CAR is closed.</p>				

Table 3. FARs from this Project Verification

<b>FAR ID</b>	01	<b>Section no.</b>	D.7/D.13	<b>Date:</b> 13/03/2023
<b>Description of FAR</b>				
<p><i>Project Owners shall demonstrate the compliance to CORSIA requirements for the credits claimed beyond 31 December 2020 with respect to double counting and HCLOA requirements and also future CORSIA requirements applicable time to time for the project activity.</i></p>				
<b>Project Owner's response</b>				<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by Project Owner</b>				
<b>GCC Project Verifier assessment</b>				<b>Date:</b> DD/MM/YYYY

## Appendix 5. Environmental Safeguard (E+)

Impact of Project Activity on		Information on Impacts, Do-No-Harm Risk Assessment and Establishing Safeguards								Project Owner's Conclusion		GCC Project Verifier's Conclusion  (To be included in Project Verification Report only)
		Description of Impact (positive or negative)	Legal/voluntary corporate requirement / regulatory/voluntary corporate threshold Limits	Do-No-Harm Risk Assessment (choose which ever is applicable)			Risk Mitigation Action Plans for aspects marked as Harmful		Performance indicator for monitoring of impact	Ex-ante scoring of environmental impact	Explanation of the Conclusion	3 <sup>rd</sup> Party Audit
				Not Applicable	Harmless	Harmful	Operational Controls	Program of Risk Management Actions				
<b>Environmental Aspects on the identified categories</b> <sup>28</sup> indicated below.	Indicators for environmental impacts	Describe and identify anticipated and actual significant environmental impacts, both positive and negative from all sources (stationary and mobile) during normal and abnormal/emergency conditions, that may result from the construction and operations of the Project Activity,	Describe the applicable national regulatory requirements /legal limits / voluntary corporate limits related to the identified risks of environmental impacts.	If no environmental impacts are anticipated, then the Project Activity is unlikely to cause any harm (is safe) and shall be indicated as <b>Not Applicable</b>	If environmental impacts exist but are expected to be in compliance with applicable national regulatory /stricter voluntary corporate requirements and will be within legal/voluntary corporate	If negative environmental impacts exist that will not be in compliance with the applicable national legal/regulatory requirements or are likely to exceed legal limits, then the	Describe the operational controls and best practices, focusing on how to implement and operate the Project Activity, to reduce the risk of impacts that have been identified as 'Harmful at least to a	Describe the Program of Risk Management Actions (refer to Table 3), focusing on additional actions (e.g., installation of pollution control equipment ) that will be	Describe the monitoring approach and the parameters (KPI) to be monitored for each impact irrespective of whether it is harmless or harmful. The frequency of monitoring to be specified as well including the data source.	-1 0 +1	Confirm the score of environmental impact of the project with respect to the aspect and its monitored value in relation to legal /regulatory limits (if any) including basis of conclusion.	Describe how the GCC Verifier has assessed that the impact of the Project Activity against the particular aspect and in case of "harmful impacts" how has the project adopted Risk

<sup>28</sup> sourced from the CDM SD Tool and the sample reports are available ( <https://www4.unfccc.int/sites/sdcmicrosite/Pages/SD-Reports.aspx> )

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		within and outside the project boundary, over which the Project Owner(s) has/have control.			limits by way of plant design and operating principles, then the Project Activity is unlikely to cause any harm (is safe) and shall be indicated as <b>Harmless</b> /If the project has a positive impact on the environment mark it as "harmless" as well.	Project Activity is likely to cause harm (may be un-safe) and shall be indicated as <b>Harmful</b>	level that is in compliance with applicable legal/regulatory requirements or industry best practice or stricter voluntary corporate requirements	adopted to reduce or eliminate the risk of impacts that have been identified as <b>Harmful</b> .				Mitigation Action Plans to mitigate the risks of negative environmental impacts to levels that are unlikely to cause any harm as well as the net positive impacts of the project with respect to the most likely baseline alternative.
<b>Reference to paragraphs of Environmental and Social Safeguards Standard</b>		Paragraph 12 (a)	Paragraph 13 (c)	Paragraph 13 (d) (i)	Paragraph 13 (d) (ii)	Paragraph 13 (d) (iii)	Paragraph 13 (e) (i)	Paragraph 13 (e) (ii)	Paragraph 12 (c) and Paragraph 13 (f)	Paragraph 22		Paragraph 24 and Paragraph 26 (a) (i)
<b>Environment - Air</b>	SO <sub>x</sub> emissions (EA01)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	NO <sub>x</sub> emissions (EA02)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	CO <sub>2</sub> emissions (EA03)	The project is expected to reduce CO <sub>2</sub> emissions with respect to baseline scenario of generation of equivalent amount of power in grid connected power plant	No mandatory law/regulation is applicable for solar projects in the country.	Not Applicable	Harmless The overall impact is positive with respect to the baseline alternative.	Not Applicable	Not Applicable	Not Applicable	Monitoring parameter is GHG emission reductions per year (tCO <sub>2</sub> /year).  This parameter is calculated from the quantity of net electricity generated and supplied to the grid multiplied by the combined	+1	The Overall impact is positive with respect to the baseline and hence the impact is harmless.  Since the impact is being monitored to demonstrate the positive impact over the lifetime, it is a score as +1	The project activity being renewable power generation avoids CO <sub>2</sub> emissions that would have occurred in baseline scenario due to the electricity

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									<p>margin emission factor sourced from the Legislation Research and develop emission factor (EF) of Viet Nam's electricity grid in 2021.</p> <p>Net electricity will be monitored through the energy meters installed at the substation.</p> <p>This parameter will be continuously monitored and reported on annual basis.</p> <p>Please refer to the section B.7.1 for more details on monitoring</p>			<p>generation in thermal power plants. The impacts is being monitored through parameter 'CO<sub>2</sub> emission reduction' and is verified under section D.3.7 of this report.</p> <p>An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring was found acceptable by the verification team.</p>
	CO emissions (EA04)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Suspended particulate matter (SPM) emissions (EA05)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Fly ash generation (EA06)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable



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	<i>Non-Methane Volatile Organic Compounds (NMVOCs) (EA07)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Odor (EA08)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Noise Pollution (EA09)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Others (EA10)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Environment - Land</b>	<i>Solid waste Pollution from Plastics (EL-01)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Solid waste Pollution from Hazardous wastes (EL02)</i>	The Solid waste pollution shall be generated from the transformer such as transformer oil/ spent oil during the operation and maintenance of the project activity. Improper treatment of this solid waste will lead to the negative environmental impact. Hence, the parameter needs to be monitored and mitigation measures to be implemented to mitigate the impact.	Circular No.36/2015/ TT-BTNMT dated 28/09/2015 <sup>29</sup> on Management of Hazardous Waste.  Legal Limit: Less than 600 Kgs/year	Not Applicable	All kinds of the solid wastes during the activity will be collected, sorted, stored and disposed to the licensed vendor as per the regulation pertaining to the respective hazardous waste management rules of state and central pollution control board	Not Applicable	Not Applicable	Not Applicable	Dedicated O&M team is appointed at the site for operation and monitoring of the project activity.  O&M team continuously monitors the hazardous waste generated at the project site and records will be maintained.  The following parameters will be monitored: 1. Quantity of waste generated 2. Quantity of waste disposed	+1	All kinds of the hazardous wastes generated during the project activity will be collected, sorted, stored and disposed to the licensed vendor as per the regulation pertaining to the respective hazardous waste management rules of state and central pollution control board whichever precedes.  Since the impact of parameter is within the regulatory limits and is being measured and monitored to demonstrate the impact is harmless this parameter is scored as +1.	This is covered to monitor impacts from disposal of broken or replaced solar panels. The impacts are being monitored through parameters 'Solid waste Pollution from Hazardous wastes (EL02)' and discussed under

<sup>29</sup> <https://faolex.fao.org/docs/pdf/vie168554.pdf>

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					whichever precedes.  Hence the impact is deemed harmless					These parameters will be monitored and recorded in the log books.  Data will be continuously monitored and records will be maintained on annual basis.  Please refer to the section B.7.2 for more details on monitoring			section D.3.7 of this report.  An appropriate monitoring plan has been put in place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team.
	<i>Solid waste Pollution from Bio-medical wastes (EL03)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Solid waste Pollution from E-wastes (EL04)</i>	E-Waste shall be generated in the form of damaged electronic and communication equipment; computer accessories and any other electronic components being used in the operation of the project activity.  Improper treatment of this waste will lead to the negative environmental impact. Hence the parameter needs to be	Circular No.36/2015/TT-BTNMT dated 28/09/2015 <sup>30</sup> of MONRE on Management of Hazardous Waste.  Legal Limit: Less than 600 Kgs/year	Not Applicable	All kinds of the E-wastes generated during the lifetime of the activity will be collected, sorted, stored and disposed to the authorized vendor for the recycling as per the regulation pertaining to the respective E-waste management rules of	Not Applicable	Not Applicable	Not Applicable	O&M team continuously monitors the E-waste generated at the project site and recorded in the plant log books.  Following parameters will be monitored:  1. Quantity of E-waste generated  2. Quantity of E-waste disposed	+1	All kinds of the E-wastes generated during the project activity will be collected, sorted, stored and disposed to the licensed vendor as per the regulation pertaining to the respective E-waste management rules of state and central pollution control board whichever precedes.  Since the impact of parameter is within the regulatory limits and is being measured and monitored to demonstrate the impact is harmless	Any E-waste including broken panels and batteries if generated from the plant shall be discarded in accordance with host country regulation. The parameter is being monitored as 'Solid waste Pollution	

<sup>30</sup> <https://faolex.fao.org/docs/pdf/vie168554.pdf>

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		monitored and mitigation measures to be implemented to mitigate the impact.			state and central pollution control board whichever precedes.  Hence the impact is deemed harmless				These parameters will be monitored and recorded in the plant log books.  Data will be continuously monitored and records will be maintained on annual basis  Please refer to the section B.7.2 for more details on monitoring		this parameter is scored as +1.	from E-wastes (EL04) and validated under section D.3.7 of this report.  An appropriate monitoring plan has been put in place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team.
	<i>Solid waste Pollution from Batteries (EL05)</i>	There is a minimal impact due to the pollution from the batteries.	Circular No.36/2015/TT-BTNMT dated 28/09/2015 <sup>31</sup> of MONRE on Management of Hazardous Waste.  Legal Limit: Less than 600 Kgs/year	Not Applicable	This project does not have any battery storage facility to store the power. However, there are few batteries are used to start the inverters and for the standby power to the used in the lifetime office at the site.  At the end of lifetime, the	Not Applicable	Not Applicable	Not Applicable	Following parameters will be monitored: 1. Quantity of battery waste generated 2. Quantity of battery waste disposed  This will be continuously monitored and reported on annual basis.  Please refer to the section B.7.2 for more details on monitoring.	+1	Though the impact due to the battery usage is insignificant the parameter will be monitored to demonstrate the impact is neutral. Hence the parameter is scored as +1.	Waste generated from batteries shall be discarded in accordance with host country regulation. The parameter is being monitored as 'Solid waste pollution from batteries (EL 05)' and verified

<sup>31</sup> <https://faolex.fao.org/docs/pdf/vie168554.pdf>

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					batteries will be handed over to the recycler or manufacturer to replace with new batteries.  Hence the impact is harmless							under section D.3.7 of this report.  An appropriate monitoring plan has been put in place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team.
	<i>Solid waste Pollution from end-of-life products/equipment (EL06)</i>	Solar panels, Inverters and transformers are the major components of the solar power project. The improper disposal of these components will lead to the negative environmental impact.  Hence, the parameter needs to be monitored and mitigation measures to be implemented to mitigate the impact.	Decree No. 38/2015/ND-CP dated 24/04/2015 of the government on management of waste and discarded materials. <sup>32</sup>	Not Applicable	The average life of the transformers and PV modules are considered as 25 years.  Transformers will be sent back to the manufacturer or recycler for the recycling and reuse of usable component at the end of the life of the transformer.	Not Applicable	Not Applicable	Not Applicable	Following parameters will be monitored:  1. Quantity of waste generated at the end of its lifetime (Transformers, PV Modules and Inverters)  2. Quantity of waste disposed  Records of the equipment disposed to the vendors or manufacturers at the end of life-time will be monitored and recorded.	+1	The impact is yet to be monitored at the end of lifetime of products.  Since the impact of the parameter is being monitored to demonstrate the impact is harmless it is scored as +1.	Waste generated after end of lifecycle of a product shall be discarded in accordance with host country regulation. The parameter is being monitored as 'Solid waste Pollution from end-of-life products/equipment (EL06)' and validated under

<sup>32</sup> <https://thuvienphapluat.vn/van-ban/EN/Tai-nguyen-Moi-truong/Decree-No-38-2015-ND-CP-on-management-of-waste-and-discarded-materials/273750/tieng-anh.aspx>

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					<p>Project owner will dispose the recyclable material to the recycling vendor and dispose the rest of materials to the third-party vendors or return to manufacturers in compliance with the prevailing rules at the end-of-life time</p> <p>Hence the impact is harmless.</p>				<p>Please refer the section B.7.2 above for detailed monitoring plan.</p>			<p>section D.3.7 of this report.</p> <p>An appropriate monitoring plan has been put in place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team.</p>
	<p>Soil Pollution from Chemicals (including Pesticides, heavy metals, lead, mercury) (EL07)</p>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<p>land use change (change from cropland /forest land to project land) (EL08)</p>	<p>The project activity is being developed in a non-crop/ non-forest land. Hence, there is no conversion in the land-use pattern.</p>	Not Applicable	<p>Since the acquired land is not suitable for cultivation and also the acquisition was done on Willing seller-willing buyer basis.</p>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	<p>Since the land usage is already changed from non-crop land to solar power project land, monitoring is not required.</p>	0	<p>The impact is unlikely to cause any harm.</p> <p>There will not be occurrence of land use change in the project site from the project implementation till the end of project lifetime.</p> <p>Hence, monitoring of this parameter is</p>	<p>The land for the project activity is a leased land /12/. The land was taken for development of project activity with mutual agreement. The PO has paid</p>

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				The necessary conversion approvals are obtained and are in place.							not required and scored as 0.	the land conversion fee. GCC Verifier has crosschecked the same with the Land Conversion Letter and found appropriate and confirms that the land has been taken for development of Solar Power Project. It is also confirmed from the interview with the stakeholder during onsite visit.
	Others (EL09)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Environment - Water	Reliability/ accessibility of water supply (EW01)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Water Consumption from ground and other sources (EW02)	The water requirement for the project is minimal. The main consumption of water in the project is for cleaning of the solar modules with minimal	Decree No:02/2023/ND-CP Dated 01/02/2023 – The Water Resource Law <sup>33</sup>	Not Applicable	Harmless Ground water will be consumed for the cleaning and domestic needs.	Not Applicable	Not Applicable	Not Applicable	Project O&M team will monitor the quantity of water consumed for cleaning of modules per cleaning cycle. Monitoring parameter is	+1	There is no impact due to the consumption of water resources. The impact is minimal compared to the baseline scenario where the water consumption is comparatively higher for thermal	The project activity use ground water for cleaning of modules and domestic use. Though the project activity is

<sup>33</sup> <https://thuvienphapluat.vn/van-ban/Tai-nguyen-Moi-truong/Nghi-dinh-02-2023-ND-CP-huong-dan-Luat-Tai-nguyen-nuoc-513343.aspx>

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		requirement for domestic usage.	<p>Legal Limit:</p> <p>Surface Water exploitation: Less than 50000 m<sup>3</sup>/day and night</p> <p>Ground Water usage: Less than 12000 m<sup>3</sup>/day and night</p>		Project is not located in the residential or rural area hence there is no impact on the existing usage pattern.				Quantity of water consumed (Liters/year).		power projects. Since the impact i.e quantity of water used is being monitored this parameter is scored as "+1"	not located in the residential or rural areas which doesn't impact on the existing using pattern. GCC Verifier has cross checked the same from water consumption records /29/ and during site visit /24/. PO has considered +1 for this parameter, and it is verified as harmless.
	<i>Generation of wastewater (EW03)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Wastewater discharge without/with insufficient treatment (EW04)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Pollution of Surface, Ground and/or Bodies of water (EW05)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Discharge of harmful chemicals like marine</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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	<i>pollutants / toxic waste (EW06)</i>											
	<i>Others (EW07)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Environment – Natural Resources</b>	<i>Conserving mineral resources (ENR01)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Protecting/enhancing plant life (ENR02)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Protecting/enhancing species diversity (ENR03)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Protecting/enhancing forests (ENR04)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Protecting/enhancing other depletable natural resources (ENR05)</i>	This is a renewable energy power project generating power through the solar energy which is renewable source of energy and hence there is no impact	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Conserving energy (ENR06)</i>	There is no scope for energy conservation since it is a solar power plant generating and supplying electricity through the grid.  Hence not applicable.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable



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	<i>Replacing fossil fuels with renewable sources of energy (ENR07)</i>	The solar power project replaces fossil fuel with the renewable solar energy for the power generation by installing the solar power plant which would have been otherwise generated from the fossil fuel dominant	Not Applicable	Not Applicable	Harmless The overall impact is positive compared to the baseline alternative	Not Applicable	Not Applicable	Not Applicable	Considering the occurrence of emission reductions through the electricity generation from the Solar power project. This parameter will be monitored through the monthly Power generation from the Solar Project.  Monthly electricity generation will be monitored through the energy meters installed at the substation. Energy Generation reports will be provided for the verification of generation.	+1	The impact is positive compared to the baseline scenario where the grid connected electricity is being generated from the dominated fossil fuels. impact during the project lifetime.  Since the impact is being monitored to demonstrate the positive impact during the project lifetime, the parameter is scored as +1	Evaluation found Harmless. The same is acceptable to the GCC Verifier. Hence the scoring +1 is acceptable
	<i>Replacing ODS with non-ODS refrigerants (ENR08)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Others (ENR09)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Net Score:</b>			+7									
<b>Project Owner's Conclusion in PSF:</b>			The Project Owner confirms that the Project Activity will not cause any net harm to Environment.									
<b>GCC Project Verifier's Opinion:</b>			The GCC Verifier certifies that the Project Activity is not likely to cause any net harm to the environment.									

## Appendix 6. Social Safeguard (S+)

Impact of Project Activity on		Information on Impacts, Do-No-Harm Risk Assessment and Establishing Safeguards							Project Owner's Conclusion		GCC project Verifier's Conclusion  (To be included in Project Verification Report only)
		Description of Impact <i>(positive or negative)</i>	Legal requirement /Limit, Corporate policies / Industry best practice	Do-No-Harm Risk Assessment  (Choose which ever is applicable)			Risk Mitigation Action Plans (for aspects marked as Harmful)	Performance indicator for monitoring of impact.	Ex-ante scoring of environmental impact	Explanation of the Conclusion	3 <sup>rd</sup> Party Audit
				Not Applicable	Harmless	Harmful					
<b>Social Aspects on the identified categories<sup>34</sup> indicate below.</b>	<i>Indicators for social impacts</i>	<i>Describe and identify actual and anticipated impacts on society and stakeholders, both positive or negative, from all sources during normal and abnormal/emergency conditions that may result from constructing and operating of the Project Activity within or outside the project boundary, over which the project Owner(s) has/have control</i>	<i>Describe the applicable national regulatory requirements / legal limits or organizational policies or industry best practices related to the identified risks of social impacts</i>	<i>If no social impacts are anticipated, then the Project Activity is unlikely to cause any harm (is safe) and shall be indicated as <b>Not Applicable</b></i>	<i>If social impacts exist but are expected to be in compliance with applicable national regulatory requirements/ stricter voluntary corporate limits by way of plant design and operating principles then the Project Activity is unlikely to cause any harm (is safe) and shall be</i>	<i>If negative social impacts exist that will not be in compliance with the applicable national legal/ regulatory requirements or are likely to exceed legal limits, then the Project Activity is likely to cause harm and shall be</i>	<i>Describe the operational or management controls that can be implemented as well as best practices, focusing on how to implement and operate the Project Activity, to reduce the</i>	<i>Describe the monitoring approach and the parameters (KPI) to be monitored for each impact irrespective of whether it is harmless or harmful. The frequency of monitoring to be specified as well. Monitoring parameters can be quantitative</i>	-1 0 +1	<i>Confirm the score of the social impacts of the project with respect to the aspect and its monitored value in relation to legal/regulatory limits (if any) including basis of conclusion</i>	<i>Describe how the GCC Verifier has assessed that the impact of Project Activity on social aspects (based on monitored parameters, quantitative or qualitative) and in case of "harmful" aspects how has the project owner adopted Risk Mitigation Action / management actions plans and policies to mitigate the risks of negative social impacts to levels that are unlikely to cause any harm.</i>

<sup>34</sup> sourced from the CDM SD Tool and the sample reports are available ( <https://www4.unfccc.int/sites/sdcmicrosite/Pages/SD-Reports.aspx> )

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					indicated as <b>Harmless</b> ), project having positive impact on society. To the BAU / baseline scenario must also mark their aspect as "harmless"	indicated as <b>Harmful</b>	risk of impacts that have been identified as <b>Harmful</b> .	or qualitative in nature along with the data source			Also describe the positive impacts of the project on the society as compared to the baseline alternative or BAU scenario.
<b>Referen ce to paragra phs of Environ mental and Social Safegua rds Standar d</b>		Paragraph 12 (a)	Paragraph 13 (c)	Paragraph 13 (d) (i)	Paragraph 13 (d) (ii)	Paragraph 13 (d) (iii)	Paragraph 13 (e) (i)	Paragraph 12 (c) and Paragraph 13 (f)	Paragraph 23		Paragraph 24 and Paragraph 26 (a) (ii)
<b>Social - Jobs</b>	Long-term jobs (> 10 year) created/ lost (SJ01)	The project activity generates long term job opportunities during the operation the project activity.	In compliance to Labour Act Code No.45/2019/Q H14 dated 20/11/2019 <sup>35</sup>  New Legal Policy - Compulsory social insurance, unemployment insurance, and health insurance contributions for Vietnamese workers <sup>36</sup>	Not Applicable	Harmless  As the impact is positive in nature	Not Applicable	Not Applicabl e	Around 20 number of people employed by the project activity will be monitored through checking employee records or the Pension contribution acknowledgment as per the new legal policy.	+1	There is no mandatory law to generate permanent employment from the project activity, however, project Owner has been decided to provide training to the local people & generate permanent employment for local people. Therefore, this parameter will be scored.	The impacts being monitored throughout crediting period by parameter 'Long-term jobs (> 10 year) created/ lost (SJ01)' and is verified under section D.3.7 of this report.  The employment was verified from employment records /21/ and during the on-site audit/24/ and by interviews and it was accepted by the GCC Verification team that appropriate monitoring plan is

<sup>35</sup>

[http://www.ilo.org/dyn/natlex/natlex4.detail?p\\_lang=en&p\\_isn=110469&p\\_count=13&p\\_classification=01#:~:text=The%202019%20Labor%20Code%20expands,and%20supervised%20by%20the%20employer.%22](http://www.ilo.org/dyn/natlex/natlex4.detail?p_lang=en&p_isn=110469&p_count=13&p_classification=01#:~:text=The%202019%20Labor%20Code%20expands,and%20supervised%20by%20the%20employer.%22)

<sup>36</sup> <https://thuvienphapluat.vn/chinh-sach-phap-luat-moi/vn/thoi-su-phap-luat/tu-van-phap-luat/44351/muc-dong-bhxh-bat-buoc-bhtn-bhyt-nam-2023>

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											going to be implemented.
	<i>New short-term jobs (&lt; 1 year) created/lost (SJ02)</i>	Project has created short term job opportunity which is less than a year to the skilled and unskilled people in the project region during the construction of the project activity through EPC contractor.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	local employment has been provided during the construction of the project activity. This employment is temporary and provided during the construction of the project activity. Project is already commissioned and in operation. Hence this has been already achieved and need not be monitored further.	Not Applicable	There is no mandatory law to generate employment from the project activity, however, Project Owner has decided to generate temporary employment in construction phase for local people. Since the employment is temporary and provided during construction phase only, therefore it will not be monitored throughout the crediting period.  Therefore, this parameter will not be scored.	Not Applicable
	<i>Sources of income generation increased / reduced (SJ03)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Avoiding discrimination on when hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities (SJ04)</i>	Project Owner establishes the policy to ensure that there is no discrimination based on gender, racism, religion etc. during the recruitment process.	Labour regulation policy on non-discrimination	Not Applicable	Harmless  Project Owner establishes the policy to ensure that there is no discrimination based on gender, racism, religion etc. during the recruitment process.	Not Applicable	Not Applicable	Monitoring parameters.  1. Labour regulation on non-discrimination practices.  2. Number of complaints received on discrimination practices.	+1	Project owner strictly avoid any discrimination practices while hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities.	PO has submitted the HR Policy for Recruitment and Onboarding /23/. The HR policy states that the recruitment process of the company follows the commitment to equality, diversity and inclusion.

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	(Human rights)				Grievance redressal committee will be formed to address any complaints/ grievance received on discrimination practices.			The data will be monitored on continuous basis, and recorded annually.  Please refer to section B.7.2 for more details		Project owner ensures that equality of opportunity and treatment of all individuals to fully develop their talents and skills according to their aspirations and preferences, and to enjoy equal access to employment as well as equal working conditions.	GCC Verifier has seen and verified the company level HR policy and confirm it during the interview with the stakeholders that the company does not discriminate when hiring people and also has the process of record grievances of local community. This establishes the communal harmony between the PO and the local community. PO has considered +1 score for this parameter and, it is verified as harmless.
Social - Health & Safety	Disease prevention (SHS01)	There is no scope for disease prevention since it is a solar power plant generating and supplying electricity from renewable source through the grid.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Occupational health hazards (SHS02)	The scope of Occupational health hazards including monitoring is redundant to the parameter Reducing / increasing accidents/incidents/fatality (SHS03). Hence the parameter is addressed in SHS03.  Therefore, it is not applicable.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Reducing / increasing accidents/incidents/fatality (SHS03)	There is a possibility of accidents/incidents/near miss in project sites due to human intervention or technical failure or emergency.	In compliance to the Law on OSH policy - Law No.84/2015/QH13 - Law on Occupational	Not Applicable	Harmless  By establishing OSH policy guidelines, and imparting periodic trainings and	Not Applicable	Establishing OSH Guidelines, Imparting Trainings, Keeping Sign	Project Owner monitors the following parameters.  1.Number of accidents/	+1	The project owner will provide regular safety training to their workers about the accident hazards and	PO has well onsite established OSH Guideline. /32/ The project owner will provide regular safety training to their workers about the accident hazards and risk related to

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			Safety And Health <sup>37</sup>		providing PPE kits to employees and visitors		boards, Providing PPE Kits.	incidents reported.  2. Number of OSH Trainings  This parameter will be continuously monitored and accidents/incident registers will be maintained on annual basis.  Please refer to section B.7.2 for more details.		risk related to specific works and preventive measures for avoiding accidents at site. Since this a mandatory to provide safety measures at site  Since the parameter is having the impact on the employees this parameter is being considered for monitoring to demonstrate that impact is neutral during the project operational period	specific works and preventive measures for avoiding accidents at site. GCC Verifier has cross checked the same and also established it as harmless during the onsite audit by interviewing the stakeholders. GCC Verifier has also cross checked the annual OSH Guideline /32/ provided by the PO and confirmed that there is a well-established safety procedure available at site. PO has considered +1 score for this parameter and, it is verified as harmless.
<i>Reducing / increasing crime (SHS04)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Reducing / increasing food wastage (SHS05)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Reducing / increasing indoor air pollution (SHS06)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Efficiency of health services (SHS07)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Sanitation and waste management (SHS08)</i>	Project will generate domestic waste during construction and	Decree No. 08/2022/N	Not Applicable	Harmless	Not Applicable	Not Applicable	Not Applicable	The toilets and soak pits at the	+1	Management will ensure proper disposal	In the solar power plant sanitation and waste management is very less. However, PO has

<sup>37</sup> <http://www.ilo.org/dyn/natlex/docs/MONOGRAPH/99774/119205/F-595449136/VNM99774.pdf>

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		operation of the project.	D-CP <sup>38</sup> dated 10/01/2022- Elaboration of several articles of the law on environmental protection.  Legal Limit: Less than 300 Kgs/day		The project will have proper sanitation facilities (during construction portable toilets, during operation permanent toilets) for both men and women as per factories act and domestic waste generated will be disposed as per local regulations.			site are already constructed and are maintained regularly. Disposal records related to garbage collection, industrial/hazardous waste management and disposal as mentioned in EL02, EL04, EL06.  Please refer to section B.7.2 for more details.		of Sanitary and domestic Waste through actual user, waste collector or operator of the disposal facility, Septic tank and soak pits will be provided onsite for treatment and disposal of sewage, thereby minimizing the impacts of wastewater discharge. Planning of toilets, soak pits and septic tanks, waste collection areas will be away from natural drainage channels. Therefore this parameter will be scored.	Waste management plan <sup>39</sup> for the project site and as per regulation. GCC Verifier has verified the same during the on-site audit and found appropriate and shall not cause harm to the environment & society. PO has considered +1 score for this parameter and, it is verified as harmless.
	<i>Other health and safety issues (SHS09)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Social - Education</b>	<i>specialized training / education to local personnel (SE01)</i>	The employees will receive on job training as per training needs.  It imparts positive impact by helping employees in all-round development.	There is no legal requirement from local authority to provide training	Not Applicable	Harmless  It is a positive impact.	Not Applicable	Not Applicable	The following parameters will be monitored.  1.Number of trainings provided to the site employees.	+1	The project Owner will provide regular job-related training to their workers. Hence, this parameter will be scored.	PO has mentioned that they will provide required training to the workers. GCC Verifier has cross checked the same and also established it as harmless during the on-site audit by interviewing the stakeholders. GCC Verifier has also

<sup>38</sup> <https://thuvienphapluat.vn/van-ban/Tai-nguyen-Moi-truong/Decree-08-2022-ND-CP-elaboration-Articles-of-the-Law-on-Environmental-Protection-507203.aspx>

<sup>39</sup> <https://thuvienphapluat.vn/van-ban/Tai-nguyen-Moi-truong/Decree-08-2022-ND-CP-elaboration-Articles-of-the-Law-on-Environmental-Protection-507203.aspx>

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								<p>This will be monitored on annual basis and the details will be recorded in training logbooks.</p> <p>Please refer to section B.7.1 for more details.</p>			<p>cross checked the training records /22/ provided by the PO and confirmed that there is a well-established training procedure available at site. PO has considered +1 score for this parameter and, it is verified as harmless.</p>
	<i>Educational services improved or not (SE02)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Project-related knowledge dissemination effective or not (SE03)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Other educational issues (SE03)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Social - Welfare</b>	<i>Improving/deteriorating working conditions (SW01)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Community and rural welfare (indigenous people and communities) (SW02)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Poverty alleviation (more people above poverty)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable



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	level) (SW03)										
	Improving / deteriorating wealth distribution/generation of income and assets (SW04)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Increased or / deteriorating municipal revenues (SW05)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Women's empowerment (SW06) (Human rights)	The project owner has the nondiscrimination policy on recruitment and remuneration. (i.e right of equal pay). This ensures there is no impact.	Resolution No. 28/NQ-CP dated March 03, 2021 on issuance of national strategy for gender equality in 2021 - 2030 <sup>40</sup>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	The following parameter will be monitored.  1. Number of jobs provided to women.  This parameter will be monitored through the Employment records.  The data will be monitored on annual basis.  Please refer to section B.7.1 for more details.	+1	Project Owner ensures that there is no gender inequality while providing the job opportunities for the project operations. Will maintain and enforce the organizational policy to avoid any gender discrimination in the company.  Project owner also priorities the women employee at the project operation from the local community to empower them by providing the income sources which would not have been happened in the absence of the project activity. This parameter	Company has employed women resources at the top management cadre in compliance with the equal remuneration and minimum wage act. PO is herself a female employees certified by LoA /04/. GCC Verifier has cross checked this with LoA /04/ and confirms that the PO has contributed towards women empowerment. PO has considered +1 score for this parameter and, it is verified as harmless.

<sup>40</sup> <https://lawnet.vn/en/vb/Resolution-28-NQ-CP-2021-issuance-of-national-strategy-for-gender-equality-2021-2030-73CB8.html>

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										will not be scored.	
	<i>Reduced / increased traffic congestion (SW07)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Exploitation of Child labour (Human rights) (SW08)</i>	Project activity provides employment in the region. However, project owner adheres to the Children law ensuring there is no exploitation of child labour	1.Code No.45/2019/QH14 <sup>41</sup> – The Viet Nam Labour code 2019  Legal Limit: Minimum working age of workers is 15 years  2.Law No. 102/2016/QH13 dated on 05/04/2016 – Children Law Pursuant to the Constitution of the Socialist Republic of Vietnam <sup>42</sup>	Not Applicable	Harmless  Child Labour and forced labour are strictly prohibited by law	Not Applicable	Not Applicable	Project owner monitors and ensures that no child labour is working at the site.  Monitoring Parameter:  Zero (0) Child labour is working at the site.  This parameter will be monitored on continuous basis and reported annually.  This data will be monitored through employment records and interview with site people.  Please refer to section B.7.2 for more details.	+1	Project owner will strictly monitor and ensures that no child labour is working at the site and no forced labour is working at the site.	It is prohibited to provide employment to children below 15 years in any organization in Viet Nam. The HR department of PO also abide by these rules and regulation of Viet Nam. GCC Verifier team has cross checked the evidence and also through the onsite audit confirms that there is no child labour working at the project site. PO has considered +1 score for this parameter and, it is verified as harmless.

<sup>41</sup> [http://boluatlaodong2019.molisa.gov.vn/lang\\_en/topic/viet\\_nam\\_labour\\_code/index](http://boluatlaodong2019.molisa.gov.vn/lang_en/topic/viet_nam_labour_code/index)

<sup>42</sup> <https://thuvienphapluat.vn/van-ban/Van-hoa-Xa-hoi/Law-102-2016-QH13-children-312407.aspx>

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<i>Minimum wage protection</i>  <i>(Human rights)</i> <i>(SW09)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Abuse at workplace. (With specific reference to women and people with special disabilities / challenges)</i>  <i>(Human rights)</i> <i>(SW10)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Other social welfare issues</i> <i>(SW11)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Avoidance of human trafficking and forced labour</i>  <i>(Human rights)</i> <i>(SW12)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Avoidance of forced eviction and/or partial physical or economic displacement of IPLCs</i>  <i>(Human rights)</i> <i>(CW13)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Provisions of resettlement and</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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	<p><i>human settlement displacement</i></p> <p><i>(Human rights)</i></p> <p><i>(CW14)</i></p>										
	<p><i>Social inequality</i></p>	<p>Social inequality in work place effects the employees working at the site.</p>	<p>Not Applicable</p>	<p>Social inequality is strictly avoided as per company Labour Regulation.</p> <p>All the employees at the work site will be treated equally without any discrimination based on gender, community, racism, disability, height and weight.</p> <p>All the employees will be treated on equal basis and provided with equal minimum wages, working conditions and growth opportunities.</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Project owner ensures that there will not be any inequality in line with the company HR policy and everyone has an equal chance at developing their abilities and skills in line to employment opportunities and favorable working conditions as the same has been addressed in Avoiding discrimination when hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities (SJ04). Hence this parameter is not scored.</p>	<p>Not Applicable</p>
	<p><i>Threatened Livelihood</i></p>	<p>Increased economic and infrastructure activity may leads to increase levels of pollution to air, water, and land, and consume finite resources in a manner that may threaten people and the environment.</p>	<p>Not Applicable</p>	<p>The project is a clean energy project and will not have major pollution sources associated with it. Since the lands procured are not much</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>There is no loss or threat to the local livelihood or endangered species or environment due to the implementation of the project activity.</p>	<p>Not Applicable</p>

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			productive for agricultural farming there is no loss of livelihood due to the loss of land. Moreover since the land is procured on lease basis this will create the sustained income to the farmers who has given the land for lease.							Since the impact is neutral compared to the baseline scenario this parameter will not be scored.	
<i>Communal Harmony</i>	The project activity has several positive impacts such as improving living conditions and promote community involvement via economic development, revenue generation and improved infrastructure	Not Applicable	The project activity enhances economic benefits to the community through job creation. This can enhance communal harmony by improving overall economic well-being.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Since the impact is neutral and addressed in the following parameters such as Threatened Livelihood, Community and rural welfare (indigenous people and communities) (SW02) and compared to the baseline scenario this parameter will not be scored.	Not Applicable
<b>Net Score:</b>					+7						
<b>Project Owner's Conclusion in PSF:</b>					The Project Owner confirms that the Project Activity will not cause any net harm to society.						
<b>GCC Project Verifier's Opinion:</b>					The GCC Verifier certifies that the Project Activity is not likely to cause any net harm to society.						

## Appendix 7. United Nation Sustainable Development Goals (SDG)

UN-level SDGs	UN-level Target	Declared Country-level SDG	Defining Project-level SDGs				GCC Project Verifier's Conclusion  (To be included in Project Verification Report only)	
			Project-level SDGs	Project-level Targets/Actions	Contribution of Project-level Actions to SDG Targets	Monitoring	Verification Process	Are Goal/ Targets Likely to be Achieved?
<p><b>Describe UN SDG targets and indicators</b></p> <p>See: <a href="https://unstats.un.org/sdgs/indicators/indicators-list/">https://unstats.un.org/sdgs/indicators/indicators-list/</a></p>	Describe the UN-level target(s) and corresponding indicator no(s)	Has the host country declared the SDG to be a national priority? Indicate Yes or No	Define project-level SDGs by suitably modifying and customizing UN/ Country-level SDGs to the project scope or creating a new indicator(s). Refer to previous column for guidance.	Define project-level targets/actions in line with nee project level indicators chosen. Define the target date by which the project Activity is expected to achieve the project-level SDG target(s).	Describe and justify how actions taken under the Project Activity are likely to result in a direct positive effect that contributes to achieving the defined project-level SDG targets	Describe the monitoring approach and the monitoring parameters to be applied for each project-level SDG indicator and its corresponding target, frequency of monitoring and data source	Describe how the GCC Verifier has verified the claims that the project is likely to achieve the identified Project level SDGs target(s).	Describe whether the project-level SDG target(s) is likely to be achieved by the target date (Yes or no)
<b>Goal 1: End poverty in all its forms everywhere</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Goal 3. Ensure healthy lives and promote well-being for all at all ages</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Goal 5. Achieve gender equality and empower all women and girls	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Goal 6. Ensure availability and sustainable management of water and sanitation for all	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Goal 7. Ensure access to affordable, reliable, sustainable, and modern energy for all	7.2 By 2030, substantially increase the share of renewable energy in the global energy mix.  Indicator: 7.2.1 Renewable energy share in the total final energy consumption	No	Quantity of net electricity supplied to the grid by project activity in year y ..	Annually generate around 44,150 MWh of renewable energy using solar energy	Project is already in operation since 09/05/2019 and complies with the SDG targets.	Contribute renewable energy share in total grid energy consumption	The net electricity supplied to the grid by the project activity is continuously monitored through energy meter (main and check meter) installed at the sub-station. The meters remain under the custody of state utility	The project activity that commissioned on 09/05/2019 continues to provide clean energy to the global energy mix, thereby complying with the SDG target 7.2. The same is confirmed from the commissioning certificate/08/ PPA /11/ and monitored throughout the technical lifetime of the project activity.	Project Owner meets the requirement of UN-level SDG goal. The same is acceptable to the GCC project verification team.
Goal 8. Promote sustained, inclusive, and sustainable economic growth, full and productive employment and decent work for all	8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for	No	Project activity supports creation of short term and long-term job opportunities for men and women during the construction	Project creates new employment and generates income for around 20 number of people during the project lifetime	Project creates new employment and generates income for 20 number of people including men and women	1. Employment as per the national labor and company law including national gender policy  2. Maintains company Labour Regulation to create standard operating	Project owner monitors the implementation of the policies and employee grievances if any, through the separate HR manager and site in charge.	The project activity is found to be generating employment opportunities in long term and short term thereby complying to the SDG target 8.5. The same is	Project Owner meets the requirement of UN-level SDG goal. The same is acceptable to the GCC project

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	<p>young people and persons with disabilities, and equal pay for work of equal value.</p> <p><b>Indicator:</b> <b>8.5.1</b> Average hourly earning of employee by sex, age, occupation and persons with disabilities.</p>		<p>and operation of the project activity.</p> <p>Supports economic productivity through technology up gradation and innovation through training of labor in high intensive sector for both the genders.</p> <p>Project protects labor rights and promotes safe and secure working environments.</p> <p>Supports a transition to a low-carbon society through employment training for former fossil fuel industry employees</p> <p>Average earning of females and male employees engaged in the project and segregated</p>	<p>Through Project activity economic development has been achieved in the project location by creating employment opportunities to the other allied services and indirect employment for men and women. Create employment for people with minimum wages as per the minimum wages act of host country.</p>	<p>during the project lifetime.</p>	<p>procedures (SOPs) to follow and maintain safe and secure work environment</p> <p>3. paying the wages as per the minimum wages act of the country. The Pension contribution acknowledgment as per the new legal policy.</p>	<p>Quantity of employment for both men and women will be monitored through employment records which will include Name, Gender and salary etc.</p>	<p>monitored and confirmed from employment records /21/ and HR policy /23/</p>	<p>verification team.</p>
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			by age and persons with disabilities.						
<b>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Goal 10. Reduce inequality within and among countries</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Goal 11. Make cities and human settlements inclusive, safe, resilient, and sustainable</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Goal 12. Ensure sustainable consumption and production patterns</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Goal 13. Take urgent action to combat climate change and its impacts</b>	13.2 Integrate climate change measures into national policies, strategies and planning  <b>Indicator:</b> 13.2.2 Total greenhouse gas	No	Reductions in Emissions (tCO <sub>2</sub> e) per unit of product due to project	Achieve annual emission reductions of 36,336 tCO <sub>2</sub> e over the crediting period for the project	Project is already in operation since 09/05/2019 and complies with the SDG targets.	Achieve annual emission reductions of 36,336 tCO <sub>2</sub> e over the crediting period for the project	Measurement of monthly energy generation from the project.  Calculation of amount of actual emission reductions achieved by the project.	The project activity reduces greenhouse gas annually by 36,336 tCO <sub>2</sub> meeting the SDG target 13.2. The same is confirmed from the ER sheet /02/ and monthly electricity generation report /16/.	Project Owner meets the requirement of UN-level SDG goal. The same is acceptable to the GCC project verification team.
<b>Goal 14. Conserve and sustainably use the oceans, seas, and marine resources for sustainable development</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Goal 15. Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable, and inclusive institutions at all levels	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Goal 17. Strengthen the means of implementation and revitalize the global partnership for sustainable development	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>SUMMARY</b>						<b>Targeted</b>		<b>Likely to be Achieved</b>	
<b>Total Number of SDGs</b>						<b>3</b>		<b>3</b>	
<b>Certification label (Bronze, Silver, Gold, Platinum, or Diamond) for the ACCs as defined in the PSF</b>						<b>Silver</b>		<b>Silver</b>	

## DOCUMENT HISTORY

Version	Date	Comment
V 3.1	31/12/2020	<ul style="list-style-type: none"> <li>▪ The name of GCC Program’s emission units has been changed from “Approved Carbon Reductions” or ACRs to “Approved Carbon Credits” or ACCs.</li> </ul>
V 3.0	23/08/2020	<ul style="list-style-type: none"> <li>▪ Revised version released on approval by the Steering Committee as per the GCC Program Process;</li> <li>▪ Revised version contains the following changes: <ul style="list-style-type: none"> <li>○ Change of name from Global Carbon Trust (GCT) to Global Carbon Council (GCC);</li> <li>○ Considered and addressed comments raised by the Steering Committee: <ul style="list-style-type: none"> <li>➢ during physical meeting (SCM 01, dated 29 Oct 2019, Doha Qatar); and</li> <li>➢ electronic consultations EC01-Round 04 (17.08.2020 – 22.08.2020).</li> </ul> </li> </ul> </li> <li>▪ Feedback from the Technical Advisory Board (TAB) of ICAO on GCC submissions for approval under CORSIA<sup>43</sup>;</li> </ul>
V 2.0	25/06/2019	<ul style="list-style-type: none"> <li>▪ Revised version released for approval by the GCC Steering Committee.</li> <li>▪ This version contains details and information to be provided, consequent to the latest worldwide developments (e.g., CORSIA EUC).</li> </ul>
v1.0	01/11/2016	<ul style="list-style-type: none"> <li>▪ Initial version released for approval by the GCC Steering Committee under GCC Program Version 1</li> </ul>

<sup>43</sup>See ICAO recommendation for conditional approval of GCC at [https://www.icao.int/environmental-protection/CORSIA/Documents/TAB/Excerpt\\_TAB\\_Report\\_Jan\\_2020\\_final.pdf](https://www.icao.int/environmental-protection/CORSIA/Documents/TAB/Excerpt_TAB_Report_Jan_2020_final.pdf)



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