



Driving Climate Actions

Project Verification Report

V3.1 - 2020

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COVER PAGE	
Project Verification Report Form (PVR)	
BASIC INFORMATION	
Name of approved GCC Project Verifier / Reference No. (also provide weblink of approved GCC Certificate)	Carbon Check (India) Private Limited. /GCCV004/01 http://globalcarboncouncil.com/wp-content/uploads/2021/10/carbon-check-india-private-limited-cci-pl.pdf
Type of Accreditation	<input type="checkbox"/> Individual Track ¹ <input checked="" type="checkbox"/> CDM Accreditation E-0052 https://cdm.unfccc.int/DOE/list/DOE.html?entityCode=E-0052 Valid from 28/03/2019 until 01/06/2024 <input checked="" type="checkbox"/> ISO 14065 Accreditation-GH004 https://nabcb.qci.org.in/wp-content/uploads/2023/06/004.html Valid from 28/06/2021 until 27/06/2024
Approved GCC Scopes and GHG Sectoral scopes for Project Verification	GCC Scope <ul style="list-style-type: none"> • Green House Gas (GHG# - ACC) • Environmental No-harm (E+) • Social No-harm (S+) • Sustainable Development Goals (SDG+) GHG Sectoral Scope <ol style="list-style-type: none"> 1. Energy (renewable/non-renewable sources)
Validity of GCC approval of Verifier	08/03/2023 to 31/05/2024
Title, completion date, and Version number of the PSF to which this report applies	Title: - Gio Thanh 1 Solar Power Plant Completion Date: - 24/11/2023 Version: - 07
Title of the project activity	Gio Thanh 1 Solar Power Plant
Project submission reference no. (as provided by GCC Program during GSC)	S00712


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

<p>Eligible GCC Project Type² as per the Project Standard (Tick applicable project type)</p>	<p><input checked="" type="checkbox"/> Type A: <input type="checkbox"/> Type A1 <input checked="" type="checkbox"/> Type A2 (Sub-Type 1)</p> <p><input type="checkbox"/> Type B – De-registered CDM Projects: <input type="checkbox"/> Type B1 <input type="checkbox"/> Type³ B2</p>
<p>Date of completion of Local stakeholder consultation</p>	<p>Local stakeholder consultation conducted on 03/04/2019</p>
<p>Date of completion and period of Global stakeholder consultation. Have the GSC comments been verified. Provide web-link.</p>	<p>12/12/2022- 26/12/2022 Global Stakeholders Consultation - Global Carbon Council</p>
<p>Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners)</p>	<p>Gio Thanh Energy Joint Stock Company Kosher Climate India Private Limited</p>
<p>Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)</p>	<p>Mr. Narendra Kumar Ramaraj Designation: Operations Head Email: narendra@kosherclimate.com</p>
<p>Country where project is located</p>	<p>Viet Nam</p>
<p>GPS coordinates of the Project site(s)</p>	<p>Latitude: 16°54'56.88"N (16.9158° N) Longitude: 107° 9'15.25"E (107.1542° E)</p>
<p>Applied methodologies (approved methodologies of GCC or CDM can be used)</p>	<p>CDM Methodology: ACM0002 Grid-connected electricity generation from renewable sources, Version 21.0</p>
<p>GHG Sectoral scopes linked to the applied methodologies</p>	<p>GHG Sectoral Scope 1- Energy Industries (Renewable/Non-Renewable sources)</p>

² Project Types defined in Project Standard and Program Definitions on GCC website.

³ GCC Project Verifier shall conduct Project Verification for all project types except B₂.

<p>Project Verification Criteria: Mandatory requirements to be assessed</p>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> ISO 14064-2, ISO 14064-3 <input checked="" type="checkbox"/> GCC Rules and Requirements <input checked="" type="checkbox"/> Applicable Approved Methodology <input checked="" type="checkbox"/> Applicable Legal requirements /rules of host country <input checked="" type="checkbox"/> National Sustainable Development Criteria (if any) <input checked="" type="checkbox"/> Eligibility of the Project Type <input checked="" type="checkbox"/> Start date of the Project activity <input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology <input checked="" type="checkbox"/> Credible Baseline <input checked="" type="checkbox"/> Additionality <input checked="" type="checkbox"/> Emission Reduction calculations <input checked="" type="checkbox"/> Monitoring Plan <input checked="" type="checkbox"/> No GHG Double Counting <input checked="" type="checkbox"/> Local Stakeholder Consultation Process <input checked="" type="checkbox"/> Global Stakeholder Consultation Process <input checked="" type="checkbox"/> United Nations Sustainable Development Goals (Goal No 13- Climate Change)
<p>Project Verification Criteria: Optional requirements to be assessed</p>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria <input checked="" type="checkbox"/> Social Safeguards Standard do-no-harm criteria <input checked="" type="checkbox"/> United Nations Sustainable Development Goals (in additional to SDG 13) <input checked="" type="checkbox"/> CORSIA requirements
<p>Project Verifier’s Confirmation: The <i>GCC Project Verifier</i> 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 Gio Thanh 1 Solar Power Plant.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the Project Submission Form (version 7.0, dated 24/11/2023) /01-f/ including the applicability of the approved methodology CDM Methodology ACM002, version 21.0 /B01/ 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. <input checked="" type="checkbox"/> The Project Activity is likely to generate GHG emission reductions amounting to the estimated 53,255 tCO_{2e} annually and 532,559 tCO₂ for the 10 years crediting period as indicated in the PSF /01-f/ (Version 7.0, dated 24/11/2023), 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.

	<p><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:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Environmental No-net-harm Label (E+) <input checked="" type="checkbox"/> Social No-net-harm Label (S+) <p><input checked="" type="checkbox"/> The Project Activity is likely to contribute to the achievement of United Nations Sustainability Development Goals (SDGs), complies with the Project Sustainability Standard, and contributes to achieving a total of 3 SDGs, with the following⁴ SDG certification label (SDG+):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Bronze SDG Label <input checked="" type="checkbox"/> Silver SDG Label <input type="checkbox"/> Gold SDG Label <input type="checkbox"/> Platinum SDG Label <input type="checkbox"/> Diamond SDG Label <p><input checked="" type="checkbox"/> The Project Activity complies with all the applicable GCC rules⁵ and therefore recommends GCC Program to register the Project activity with above mentioned labels.</p>
<p>Project Verification Report, reference number and date of approval</p>	<p>Reference number: - CCIPL1545/GCC/VAL/GT1SPP</p> <p>Version: - 01.1</p> <p>Date of Approval: - 24/11/2023</p>
<p>Name of the authorised personnel of GCC Project Verifier and his/her signature with date</p>	<p></p> <p>Vikash Kumar Singh, Compliance Officer</p> <p>Date: 24/11/2023</p>

⁴ 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.

⁵ “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 “Gio Thanh 1 Solar Power Plant” in the Gio Linh District of Quang Tri 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 61,632 MWh/year and it is translating into emission reductions of around 53,255 tCO_{2e} per year.

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

The purpose of the project verification is to have a thorough and independent assessment of the proposed Project Activity against the applicable GCC rules and requirements, including those specified in the Project Standard /B02-1/ applied methodology /B01/, methodological tools /B04, B05, B06, B07, B08/ 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 Activities are located in the Gio Linh District of Quang Tri province in Viet Nam.

Project Activity	Physical Address	Latitude	Longitude
Gio Thanh Energy Joint Stock Company	Gio Thanh commune, Gio Linh District, Quang Tri Province	16°54'56.88"N (16.9158° N)	107° 9'15.25"E (107.1542° 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 02, dated 23/11/2022 /01-a/ and final project submission form, version 07, dated 24/11/2023 /01-f/ and listed for global stakeholder consultation on GCC website with reference no S00712⁶. The PSF is reviewed against the relevant criteria and decisions by the

⁶ [Project Details \(globalcarboncouncil.com\)](https://globalcarboncouncil.com)

GCC, including the CDM approved baseline and monitoring methodology ACM0002, 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, version 21.0 /B01/, guidance issued by the GCC and assess the claims and assumptions made in the PSF, version 2.0 /01-a/ without limitation on the information provided by the project owner.

Verification Process

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

CC IPL 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
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 upon with the client in the signed contract, 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 02 /01-a/ and information from sources with all necessary means without limitations to the information provided by the project owner.
- 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, 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 between the Verification Body, CCIPL and the project owner, Kosher Climate India Private Limited on 20/12/2022 /26/. 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 07 /01-f/ 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 02, 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 "Gio Thanh 1 Solar Power Plant" in Viet Nam as described in the final PSF (Version 7.0, dated 24/11/2023) /01-f/ 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 /01/, 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+ /B02-4/ and SDG+ with silver rating /B02-5/. 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 22-23 /B02-6/, 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	IR	Mathew	Vijay	CCIPL	X	X	X	X
2.	Team Member	IR	Raychoudhury	Rishi Kishore	CCIPL	X	X	X	X
3.	Local Expert	ER	Ngoc Trang	Nguyen Hong	CCIPL	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	CCIPL
2.	Approver	IR	Singh	Vikash Kumar	CCIPL

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 23/11/2022 /01-a/ to revised / final PSF, version 7.0, dated 24/11/2023 /01-f/. 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: 20/02/2023				
No.	Activity performed on-site	Site location	Date	Team member
1.	Discussions and review of: <ul style="list-style-type: none"> • Project Design • Project Technology • Project boundary • Applicability of methodology • Environmental Management Plan/ EIA • Local stakeholders meeting process • Management structure with Roles and Responsibilities • Project implementation schedule • Pre project (existing) scenario to meet the energy (heat and electricity) demand • Monitoring Plan • Socio-economic Impacts of the project activity • Sustainability aspects of the project (SDGs) • Baseline Scenarios and alternatives • Project additionality • Emission reduction calculations 	Gio Linh District of Quang Tri Province, Viet Nam	20/02/2023	Vijay Mathew Rishi Kishore Raychoudhury Nguyen Hong Ngoc Trang

C.3. Interviews

No.	Interview			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	N Sunil	Mahima	Kosher Climate	20/02/2023	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	20/02/2023		Rishi Kishore Raychoudhury
3.	Toan	Tran Van	Kosher Climate	20/02/2023		Nguyen Hong Ngoc Trang
4.	Ngoc Vuw	Nguyen	Gio Thanh Energy JSC	20/02/2023	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.	Van Thien	Tkan	Gio Thanh Energy JSC	20/02/2023		
6.	Thah Lain	Lee	Gio Thanh Energy JSC	20/02/2023		
7.	Xuan Thuen	Hoay	Gio Thanh Energy JSC	20/02/2023		
8.	Miy Ling	Tian Thi	Gio Thanh Energy JSC	20/02/2023		
9.	Thi Thiy	Ngo	Gio Thanh Energy JSC	20/02/2023		

C.4. Sampling approach

No sampling approach is used for this project verification process.

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
Green House Gas (GHG)				
Identification and Eligibility of project type	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
General description of project activity	A ₁ , A ₂ , B ₁ , B ₂	CL 02	CAR 01, CAR 03, CAR 09	-
Application and selection of methodologies and standardized baselines	A ₁ , A ₂ , B ₁ , B ₂	-	CAR 02, CAR 05	-
- Application of methodologies and standardized baselines	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
- Deviation from methodology and/or methodological tool	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
- Clarification on applicability of methodology, tool and/or standardized baseline	A ₁ , A ₂ , B ₁ , B ₂	-	-	-

- Project boundary, sources and GHGs	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
- Baseline scenario	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
- Demonstration of additionality including the Legal Requirements test	A ₁ , A ₂ , B ₁ , B ₂	CL 03	CAR 06	-
- Estimation of emission reductions or net anthropogenic removals	A ₁ , A ₂ , B ₁ , B ₂	-	CAR 07	-
- Monitoring plan	A ₁ , A ₂ , B ₁ , B ₂	CL 04	CAR 08	-
Start date, crediting period and duration	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
Environmental impacts	A ₁ , A ₂ , B ₁ , B ₂	CL 05	-	-
Local stakeholder consultation	A ₁ , A ₂ , B ₁	CL 07	-	-
Approval & Authorization- Host Country Clearance	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
Project Owner- Identification and communication	A ₁ , A ₂ , B ₁ , B ₂	CL 01 CL 09	-	-
Global stakeholder consultation	A ₁ , A ₂ , B ₁	-	-	-
Others (please specify)	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
VOLUNTARY CERTIFICATION LABELS				
Environmental Safeguards (E ⁺)	A ₁ , A ₂ , B ₁	CL 08	CAR 10	-
Social Safeguards (S ⁺)	A ₁ , A ₂ , B ₁			-
Sustainable development Goals (SDG ⁺)	A ₁ , A ₂ , B ₁	CL 06	-	-
Authorization on Double Counting from Host Country (only for CORSIA)	A ₁ , A ₂ , B ₁	-	-	FAR 01
CORSIA Eligibility (C ⁺)		-	CAR 04	-
Total	20	09	10	01

Section D. Project Verification findings

D.1. Identification and eligibility of project type

Means of Project Verification	Desk Review and Interviews		
Findings	No findings raised		
Conclusion	The GCC Project Verification team reviewed the PSF /01-f/ and confirms that the Project Owner determines the type of proposed GCC project activity as follows:		
	Parameters	Description	GCC Verifier Assessment
	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 start date of the project activity is 10/12/2020. GCC Verifier has cross checked the PSF /01-f/ and the Commissioning certificate /06/ and confirms that the project is Type A2 since the project has started after 1 January but before 5 July 2022
	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 start date of the project activity is 10/12/2020. GCC Verifier has cross checked the PSF /01-f/, declaration /23/ and the Commissioning

			certificate /06/ and conforms that the project is Sub Type 1 since the project has started after 1 January. GCC Verifier has also cross checked with other programs /B09/ and found the project activity is not registered in any other registry.
	Start date of project activities	10/12/2020	As per the paragraph 38 of the project standard V3.1 /B02-1/, start of commercial operations has been considered as the start date. Hence project commissioning date (COD), on which project is connected to grid and started generating power and exporting to the grid there by started generating GHG emission reductions is considered as start date. The start date of project activity is 10/12/2020. GCC Verifier has cross checked the PSF /01-f/ and the Commissioning certificate /06/ and conforms the start date of project activity
	Start date of Crediting period	10/12/2020 to 09/12/2030	GCC Verifier has cross checked the PSF /01-f/ and the Commissioning certificate /06/ and conforms the start date of crediting period project activity
	Global stakeholder consultation	12/12/2022- 26/12/2022	Global Stakeholders Consultation - Global Carbon Council
<p>The project activity complies with the requirement of paragraph 11 of the GCC Project Standard (version 03.1) /B02-1/ and GCC clarification no.01 /B02-6/ and paragraph 25 (b) of GCC Project Verification Standard (version 03.1) /B02-2/.</p>			

D.2. General description of project activity

Means of Project Verification	Desk Review and Interviews		
Findings	CL 02, CAR 01, CAR 03, CAR 09 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.		
Conclusion	The description of the project activity contained in the PSF /01-f/ 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.		
	Parameters	Details	GCC Verifier Assessment
	Name of the Project	Gio Thanh 1 Solar Power Plant	GCC Verifier has cross checked the PSF /01-f/ and LOA /04/ and confirms the name of the project.
	Project developer	Gio Thanh Energy Joint Stock Company	GCC Verifier has cross checked the PSF /01-f/ and LOA /04/ and confirms the confirms the name of the project developer.
	Capacity- DC	50MWp	GCC Verifier has cross checked the commission certificate /06/, CIFSR /07/, PPA /10/, on-site notes /25/ and confirms the capacity of the project activity.
	Purpose of the project	The purpose of the project activity is to generate electricity from solar energy. The electricity generated is supplied to the Provincial Viet Nam Electricity Corporation (EVN) i.e., Viet Nam national grid.	GCC Verifier has cross checked the commission certificate /06/, CIFSR /07/, PPA /10/, on-site notes /25/ and confirms the purpose of the project activity.
	Annual Generation	61,632 MWh/ year	GCC Verifier has cross checked the PSF /01-f/, CIFSR /07/ and ER sheet /02-e/ and confirms that the annual generation of the project activity.
	Annual Degradation factor	0.7%	GCC Verifier has cross checked the CIFSR /07/ and technical specification /16/ confirms the degradation factor as 0.7%.
	Emission Reduction	532,559 tCO ₂ for the whole crediting period	GCC Verifier has cross checked the ER sheet /02-e/ and confirms the emission reduction for the project activity.
Since solar energy is clean energy, the project activity does not involve any grid connected power plants. The power generation from the project activity replaces the			

equal amount of power which otherwise would have been supplied from the grid connected to power plants dominated by use of fossil fuels. Thus, project activity helps in an average annual emission reduction of 53,255 tCO₂e/year for a period of 10 years.

The Proposed Project Activities are located in the Gio Linh District of Quang Tri Province in Viet Nam.

Project Activity	Latitude	Longitude
Project Activity	16°54'56.88"N (16.9158°)	107° 9'15.25"E (107.1542°)

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 /25/; further, the solar projects were cross checked with the commissioning certificate of the project activity and were found appropriate /06/.

Parameters	Details	GCC Verifier Assessment
Type of Project	Solar Power project	GCC Verifier has cross checked the commission certificate /06/, CIFSR /07/, PPA /10/, EPC Contract /08/, O & M contract /09/, and technical specification /16/.
Technology	Monocrystalline Solar Panels	
PV Modules	SPR-P3-480-UPP SPR-P3-485-UPP SPR-P3-490-UPP	
Central Inverter	SUN2000-185KTL-H1 Capacity – 175KW	
Project Capacity	DC Capacity- 50 MWp AC Capacity- 40 MW	
Lifetime of the project	25 years	
Project Start date	10/12/2020	

	<p>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 /B01/. The project is expected to generate and feed GHG free electricity to the connected national electricity grid of Viet Nam.</p> <p>As stated in the PSF /01-f/, 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+).</p> <table border="1" data-bbox="502 607 1481 920"> <tr> <td>GCC labels applied</td> <td>Environmental No-net-harm Label (E+), Social No-net-harm Label (S+), CORSIA requirements (C+) and United Nations Sustainable Development Goals (SDG+)</td> </tr> <tr> <td>Environmental No-net-harm Label (E+) score</td> <td>+7</td> </tr> <tr> <td>Social No-net-harm Label (S+) score</td> <td>+8</td> </tr> <tr> <td>Number of United Nations Sustainable Development Goals (SDG+) opted</td> <td>3</td> </tr> </table> <p>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 paragraph 36 of GCC Project Standard Version 03.1 and cross checked with PSF /01-f/.</p> <p>The Project Activity is a voluntary action by the project owner as confirmed by the verification team upon review of the PSF /01-f/ and on-site visit interviews/25/.</p> <p>In accordance with paragraph 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.</p> <ul style="list-style-type: none"> • The solar power plant itself • The point of connection to Viet Nam national grid for sale of electricity. <p>This was checked and confirmed by reviewing the PSF /01-f/, on-site visit interviews with representatives of project owner.</p> <p>As per the PSF /01-f/, start date of the Project Activity is 10/12/2020 (Start date of commercial operation of the Project- Commissioning Certificate) /06/. As per the paragraph 38 of the project standard V3.1 /B02-1/, start of commercial operations has been considered as the start date. Hence project commissioning date (COD), on which project is connected to grid and started generating power and exporting to the grid there by started generating GHG emission reductions is considered as start date. The same is in accordance with requirements of paragraph 38 of GCC Project Standard (version 03.1) /B02-1/.</p> <p>A crediting period is a fixed crediting period for the Project Activity, from 10/12/2020 to 09/12/2030 i.e., of 10 years. This is cross checked by PSF /01-f/ and confirms the requirement of paragraph 39 and paragraph 40(b) of GCC Project Standard Version 03.1 /B02-1/.</p> <p>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.</p>	GCC labels applied	Environmental No-net-harm Label (E+), Social No-net-harm Label (S+), 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	+8	Number of United Nations Sustainable Development Goals (SDG+) opted	3
GCC labels applied	Environmental No-net-harm Label (E+), Social No-net-harm Label (S+), 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	+8								
Number of United Nations Sustainable Development Goals (SDG+) opted	3								

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

D.3.1 Application of methodology and standardized baselines

Means of Project Verification	Desk Review and Interviews		
Findings	CAR 02, CAR 05 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.		
Conclusion	<p>The CDM methodology applied is ACM0002, 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 /25/ and document review.</p> <p>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:</p>		
	Applicability criteria of the methodology	Justification by PO	GCC Verifier Assessment
	<p>This methodology is applicable to grid-connected renewable power generation project activities that:</p> <p>(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.</p> <p>Therefore, it confirms to the said criteria.</p>	<p>GCC Verifier has cross checked the EPC contract /08/, PPA /10/, Commissioning certificate /06/ and confirms that the project is a green field solar- renewable energy with the capacity of 40 MW AC capacity.</p> <p>Hence the methodology is applicable to the proposed project activity.</p>
<p>In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy power generation project activities that:</p> <p>(a) Integrate BESS with a Greenfield power plant; (b) Integrate a BESS together with implementing a capacity addition to (an) existing solar photovoltaic1 or wind power plant(s)/unit(s); (c) Integrate a BESS to (an) existing solar photovoltaic</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>	<p>GCC Verifier has cross checked the EPC contract /08/, PPA /10/, Commissioning certificate /06/ and confirms that the project is a new grid connected renewable solar power project and does not involve the integration of Battery Energy Storage System.</p> <p>Hence, The applicability criteria is not applicable to the proposed project activity.</p>	

	<p>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 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; (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</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>GCC Verifier has cross checked the EPC contract /08/, PPA /10/, Commissioning certificate /06/ and confirms that it is a grid connected renewable solar power project. Hence, The applicability criteria is not applicable to the proposed project activity.</p>

	<p>studies or investment decision documents); (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 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 (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</p>	<p>The project activity is the installation of solar power plants/units. Therefore, the said criteria is not applicable</p>	<p>The proposed project activity is not a hydro power project. CCIPL project verification team confirmed the same during on-site visit /25/. Hence this condition is not applicable to the proposed project activity.</p>

	<p>equation (7) is greater than 4 W/m²; 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/m² ; 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/m², 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/m²; (ii) Water flow between reservoirs is not used by any other 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/m² shall be:</p> <p>a. Lower than or equal to 15 MW; and</p> <p>b. Less than 10 per cent of the total installed capacity of integrated hydro power project.</p> <p>(a)</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</p>	<p>The project activity is the installation of a new solar power plants/units. Therefore, the said criteria is not applicable</p>	<p>The proposed project activity is not a hydro power project.</p> <p>CC IPL project verification team confirmed the same during on-site visit /25/. Hence this condition is not applicable to the proposed project activity.</p>

	<p>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 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</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</p>	<p>GCC Verifier has cross checked the EPC contract /08/, PPA /10/, Commissioning certificate /06/ and confirms that the project activity does not involve switching from fossil fuel to renewable energy and concluded that is not a biomass fired power plant. CCIPL project verification team confirmed the</p>

	<p>continued use of fossil fuels at the site. (b) Biomass fired power plants;</p>	<p>installation of new solar power plant and not Biomass fired power plant.</p> <p>Therefore, the said criteria is not applicable</p>	<p>same during the on-site visit /25/. Hence this condition is not applicable to the proposed project activity.</p>
	<p>In the case of 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”.</p>	<p>The project activity is the installation of new solar power plant/unit that does not involve retrofits, rehabilitations, replacements, or capacity additions.</p> <p>Therefore, the said criteria is not applicable</p>	<p>GCC Verifier has cross checked the EPC contract /08/, PPA /10/, Commissioning certificate /06/ and confirms that the project activity does not involve retrofits, rehabilitations, replacements or capacity addition.</p> <p>CCIPL project verification team confirmed the same during the on-site visit /25/. Hence this condition is not applicable to the proposed project activity.</p>
	<p>Applicability criteria of the TOOL 07, version 7.0</p> <p>The tool lists the following applicability criteria:</p> <p>(a) 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>Justification by PO</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</p>	<p>GCC Verifier Assessment</p> <p>The project activity involved the construction and operation of 40 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>

		reflected in the combined margin (CM) calculations described in "TOOL07: Tool to calculate the emission factor for an electricity system", version 07.0	
	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 IIa and option IIb. If option IIa 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.	Since the project activity is grid connected solar power project, this condition is applicable. Emission factor calculation was done in line with TOOL 07: " <i>Tool to calculate the emission factor for an electricity system</i> " 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 in 2020 (attached with OL 1316/BDKH-TTBVTOD)"and as per the tool, calculation of emission factor has been only considered grid connected plants	Project owner has calculated the emission factor applying this applicability condition. As per para 25 of Project standard 3.1, the latest publication of emission factor by "Research and develop emission factor (EF) of Viet Nam's electricity grid in 2020" available at the time of GSC has been followed. This is accepted by the project verification team.
	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	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

		<p>criterion is applicable for the project activity</p>	<p>protocol by Viet Nam = 25th September, 2002), the project verification team has accepted the application of the tool to calculate the grid emission factor.</p>
	<p>Under this tool, the value applied to the CO₂ emission factor of biofuels is zero.</p>	<p>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 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 CO₂ emission of Biofuel as zero. Hence PO has considered the same.</p> <p>Therefore, this criterion is not applicable for the project activity.</p>	<p>The project activity is a grid connected solar power project. There is no biofuels related activity.</p>

Applicability criteria of the TOOL 01, version 07.0	Justification by PO	GCC Verifier Assessment
<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 version 21.0. Refer to section B.5 of the PSF /01-f/ for the detailed applicability of this tool and additionality assessment. Hence this tool is applicable</p>	<p>The step wise approach to establish additionality of the project activity is detailed 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, generation from renewable which is in line with the methodology ACM0002 Grid-connected electricity sources, version 21 /B01/.</p>
Applicability criteria of the TOOL 27, version 12.0	Justification by PO	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</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>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>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: Investment Analysis version 12.0 Hence Justified.</p>	<p>The applied methodology is ACM0002, Version 21 /B01/. It doesn't contains requirements for the investment analysis that are different from those described in this methodological tool 27 Investment Analysis version 12.0 /B07/.</p>
	<p>Applicability criteria of the TOOL 24, version 3.1</p> <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”,</p>	<p>Justification by PO</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>GCC Verifier Assessment</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>or baseline and monitoring methodologies that use the common practice test for the demonstration of additionality</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 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>The applied methodology is ACM0002, Version 21 /B01/. It doesn't defines approaches for the conduction of the common practice test that are different from those described in this methodological tool 24 Common Practice Analysis version 3.1/B06/.</p>
	<p>Applicability criteria of the TOOL 05, version 3.0</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: (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</p>	<p>Justification by PO</p> <p>The project will import electricity from the grid. The electricity consumption of this project is purchased from the grid only. And Scenario A is selected. Hence, applicable.</p>	<p>GCC Verifier Assessment</p> <p>Verifier has cross checked the PSF /01-f/, electricity connectivity agreement /18/ and confirms that the project imports electricity from the grid. And hence scenario A is applicable.</p>

	<p>consumption or, if any captive power plant 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 fired captive power plant(s). One or more fossil fuel fired captive power plants are installed at the site of the electricity consumer 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 fuel 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>		
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D.3.2 Clarification on applicability of methodology, tool and/or standardized baseline

Means of Project Verification	Desk Review and Interviews
Findings	-
Conclusion	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

Means of Project Verification	Desk Review and Interviews
Findings	No findings are raised.
Conclusion	<p>According to the approved baseline and monitoring methodology “ACM0002” of “Grid connected renewable electricity generation”, 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 /25/, commissioning report for the power plant /06/ and power purchase agreement /10/.</p> <p>In section B.3 of the PSF /01-f/, project boundary has been adequately stated in figure 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

Means of Project Verification	Desk Review and Interviews							
Findings	No findings are raised.							
Conclusion	<table border="1"> <thead> <tr> <th>Methodology requirement baseline</th> <th>GCC Verifier Assessment</th> </tr> </thead> <tbody> <tr> <td>According to the approved baseline methodology ACM0002 /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 /10/ and commissioning report /06/. 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 /27/.</td> </tr> <tr> <td>The relevant national and/or sectoral policies, regulations and circumstances are taken into account during the determination of baseline scenario.</td> <td> <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 & regulations:</p> <ul style="list-style-type: none"> • Electricity Law No. 28/2004/QH11 of 2004⁷ • Circular No. 16/2017/TT-BCT⁸ • Decision 1264/QD-TTg 2019 – Formulation task of National Electricity </td> </tr> </tbody> </table>		Methodology requirement baseline	GCC Verifier Assessment	According to the approved baseline methodology ACM0002 /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 /10/ and commissioning report /06/. 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 /27/.	The relevant national and/or sectoral policies, regulations and circumstances are taken into account during the determination of baseline scenario.	<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 & regulations:</p> <ul style="list-style-type: none"> • Electricity Law No. 28/2004/QH11 of 2004⁷ • Circular No. 16/2017/TT-BCT⁸ • Decision 1264/QD-TTg 2019 – Formulation task of National Electricity
Methodology requirement baseline	GCC Verifier Assessment							
According to the approved baseline methodology ACM0002 /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 /10/ and commissioning report /06/. 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 /27/.							
The relevant national and/or sectoral policies, regulations and circumstances are taken into account during the determination of baseline scenario.	<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 & regulations:</p> <ul style="list-style-type: none"> • Electricity Law No. 28/2004/QH11 of 2004⁷ • Circular No. 16/2017/TT-BCT⁸ • Decision 1264/QD-TTg 2019 – Formulation task of National Electricity 							

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

⁸<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>

	<p>Development Plan in the period of 2021 – 2030 with the vision toward 2045⁹</p> <ul style="list-style-type: none"> • Circular No. 18/2020/TT-BCT – Project development and sample of electricity sale contract applicable to solar power projects¹⁰. • Circular No. 05/2019/TT-BCT Development of Solar Power Projects and Standard Form Power Purchase Agreement (PPA)¹¹ • Decision No. 13/2020/QD-TTg - Incentives for development of solar energy in Viet Nam¹². <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 CO₂ emission factor for the project electricity system in year y (EF_{grid,CM,y}) – The value has been calculated and published by Department of Climate Change - Ministry of Natural Resources and Environment, 2020 /27/. The value is calculated as per the TOOL 07: “Tool to calculate the emission factor for an electricity system” (Version 07.0) /B04/. This was found in accordance with the methodology.</p> <p>CCPIL 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"> • All the assumptions and data used by the project owners are listed in the PSF, including their references and sources. • All documentation used /06/ /07/ /10/ /27/ are relevant for establishing the baseline scenario and correctly quoted and interpreted in the PSF. • Relevant national and/or sectoral policies and circumstances are considered and listed in the PSF /01-f/. <p>The approved baseline methodology ACM0002, version 21.0 /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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⁹ [Resolution 55-NQ/TW 2020 orienting Vietnam's National Energy Development Strategy \(thuvienphapluat.vn\)](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)

¹⁰ <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>

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

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

D.3.5 Demonstration of additionality

Means of Project Verification	Desk Review and Interviews
Findings	CL 03, CAR 06 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.
Conclusion	<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, 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> <ul style="list-style-type: none"> • Power generation using renewable energy is not a legal requirement or a mandatory option. • The Electricity Law No. 28/2004/QH11, 2004¹³ does not influence the choice of fuel used for power generation. • As per the Article 2 of the Electricity Law No. 28/2004/QH11, Law applies to organizations and individuals conducting electricity activities which implies both the baseline and project scenario. • As per Article 4 of the Electricity Law No. 28/2004/QH11, Electricity development policies implies to develop electricity in a sustainable manner on the basis of optimally tapping all resources, satisfying demands for electric energy in service of people’s life and socioeconomic development and to step up the exploitation and use of sources of new energies, renewable energy for electricity generation raising the efficiency of using various energy sources, protecting the ecological environment. Hence both the baseline and project scenario complies with the legal requirement and not mandated. • There is no legal requirement on the choice of a particular technology for power generation • Policies pertaining to comply for the project scenario is provided in Sub-step1b <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 the 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>Step 1: Identification of alternatives to the project activity consistent with current laws and regulations</p> <p>Sub-step 1a: Define alternatives to the project activity: Alternative 1: The proposed project activity undertaken without being registered as a GCC project activity. Alternative 2: No project activity is undertaken.</p>

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

	<p>The first alternative, which is the implementation of the project without carbon revenue, is not financially attractive as discussed in 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.</p> <p>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>Outcome of Step 1a 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.</p> <p><u>Sub-step 1b: Consistency with mandatory laws and regulations:</u></p> <p>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.</p> <p>The resultant alternatives to the project as outlined in Step 1a are in compliance with the applicable laws and regulations.</p> <p>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.</p> <p><u>National/sectoral policies & regulations:</u> Electricity Law No. 28/2004/QH11 of 2004¹⁴</p> <ul style="list-style-type: none"> • Circular No. 16/2017/TT-BCT¹⁵ • Decision 1264/QĐ-TTg 2019 – Formulation task of National Electricity Development Plan in the period of 2021 – 2030 with the vision toward 2045¹⁶ • Circular No. 18/2020/TT-BCT – Project development and sample of electricity sale contract applicable to solar power projects¹⁷. • Circular No. 05/2019/TT-BCT-- Development of Solar Power Projects and Standard Form Power Purchase Agreement (PPA)¹⁸
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¹⁴<https://policy.asiapacificenergy.org/sites/default/files/ELECTRICITY%20LAW%20%28No.%2028%3A2004%3AQH11%29%20.pdf>

¹⁵<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>

¹⁶[Resolution 55-NQ/TW 2020 orienting Viet Nam's National Energy Development Strategy \(thuvienphapluat.vn\)](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)

¹⁷<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>

¹⁸<https://thuvienphapluat.vn/van-ban/Thuong-mai/Circular-05-2019-TT-BCT-amendments-to-Circular-development-of-solar-power-projects-425198.aspx>

- Decision No. 13/2020/QĐ-TTg-- Incentives for development of solar energy in Viet Nam¹⁹

According to all the referred policies and regulations the baseline scenario is in compliance with all applicable legal and regulatory requirements

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 /23/ are associated with the implementation of this GCC project activity. For investment analysis, financial assumptions from the debt finance from the lenders have been considered from the standard market rates available for the similar projects and enquiries from the vendors.

PO has decided to invest in the project activity and prepared the CFSIR (Construction Investment Feasibility Study Report)/07/ in the month of April 2018 and submitted to Vietnamese government for approval along with Basic design Report. The project got approval from the Vietnamese government on 24/04/2018 as an approval on the submitted Basic Design Report /07/. PO has considered the investment decision date of the project as 24/04/2018 which is the date for basic design approval /07/ by the Vietnamese government. The input parameters for the calculation of financial indicators have been taken from the CIFSR /07/ which was available prior to the investment decision date. Project owner has considered the input values from the CIFSR /07/.

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

Sl. No.	Chronology of Events	Date
01	Construction Investment Feasibility Study report	April 2018
03	Approval of Basic design report (Investment decision date)	24/04/2018
04	Signing of EPC Contract	25/11/2018
05	Signing of Power Purchase Agreement	10/05/2019
06	Project Commissioning	10/12/2020

Hence, the consideration of basic design approval date i.e. 24/04/2018 as the investment decision date is appropriate.

Sub-step 2a: Determine appropriate analysis method.

The project owner has chosen to apply investment analysis to demonstrate the additionality of the project activity using the benchmark analysis method. Project owner has identified post tax equity IRR as the most suitable financial indicator. The project cannot apply simple cost analysis since the project brings revenue from the

¹⁹ <https://thuvienphapluat.vn/van-ban/Tai-nguyen-Moi-truong/Quy-dinh-13-2020-QĐ-TTg-co-che-khuyen-khich-phat-trien-dien-mat-troi-tai-Viet-Nam-439160.aspx>

	<p>sale of electricity; also, investment comparison analysis cannot be applied as the alternative to the project activity is the electricity generated by new and existing grid connected power plants. Hence, PO has chosen to demonstrate investment analysis using Option III: Benchmark Analysis.</p> <p>Sub-step 2b: Option III. Apply benchmark analysis</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 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 /B07/ 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 equity IRR calculated is nominal equity IRR. 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’, 2nd edition, by ‘Aswath Damodaran’²⁰. 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>Sub-step 2c: Calculation and comparison of financial indicators</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%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Parameters</th> <th style="width: 33%;">Project’s Specifics</th> <th style="width: 33%;">GCC Verifier Assessment</th> </tr> </thead> </table>	Parameters	Project’s Specifics	GCC Verifier Assessment
Parameters	Project’s Specifics	GCC Verifier Assessment		

²⁰ As per Pg. 320 of Corporate Finance, Second Edition of Aswath Damodaran

	Investment decision date	24/04/2018	Based on the approval date of Basic design Report /07/											
	Type of Benchmark	Post tax equity IRR /03-e/	As per the para 15 of Tool 27: Investment analysis, version 12.0, 'Required/expected returns on equity are appropriate benchmarks for an equity IRR' /B07/											
	Default Benchmark value	11.73% default for Viet Nam in Appendix Tool 27: Investment analysis /B07/.	Project owner has chosen the default for Viet Nam as per version 12 of Tool 27, Appendix of EB 116, Annex 2 /B07/ to demonstrate additionality, which is the latest available during the time global stakeholder consultation.											
	Inflation rate (Median)	3.96% sourced from World Economic Outlook database: April 2018 ²¹	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	16.15% $=((1+0.1173) * (1+0.04)) - 1$ =16.15%	Project owner has chosen the default for Viet Nam as per Appendix of EB 116, Annex 2 /B07/ 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>The key data parameters used to calculate post tax Equity IRR are tabulated below. These parameters have been sourced from the Pre- Feasibility study Report /07/ which were available at the time of investment decision 24/04/2018 The Detailed project report is approved by Viet Nam Government.</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Unit</th> <th>Value</th> <th>GCC Verifier Assessment</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Capacity</td> <td>50 MWp</td> <td rowspan="2">MWp</td> <td rowspan="3">Verified against CIFSR /07/and cross verified against the EPC contract/08/ and EIA approval /11/. Further, the</td> </tr> <tr> <td>DC</td> </tr> <tr> <td>10 MW</td> <td>MW</td> </tr> </tbody> </table>				Parameter	Unit	Value	GCC Verifier Assessment	Capacity	50 MWp	MWp	Verified against CIFSR /07/and cross verified against the EPC contract/08/ and EIA approval /11/. Further, the	DC	10 MW	MW
Parameter	Unit	Value	GCC Verifier Assessment											
Capacity	50 MWp	MWp	Verified against CIFSR /07/and cross verified against the EPC contract/08/ and EIA approval /11/. Further, the											
	DC													
	10 MW	MW												

²¹ [Report for Selected Countries and Subjects \(imf.org\)](https://www.imf.org)

				same has been confirmed during onsite visit.
	Plant Load Factor	18.15	-	PLF has been calculated using the formula $PLF = \frac{\text{Net generation}}{(\text{Project capacity AC} * 365 * 24)}$ = 18.15%. hence it is found acceptable by the verification team.
	Annual Net Generation	63.598	GWh	Verified against CIFSR /07/ and cross checked with the ER sheet /02-e/, generation reports /13/ and found that the annual net generation in the generation report is less than the estimated generation. Hence, GCC Verifier confirms the net generation considered for the project activity is appropriate and hence acceptable..
	Annual Degradation	0.7	%	Verified against specification /16/. Further, verification team has cross verified with the NERL report on Photovoltaic Degradation Rates — An Analytical Review. The report covers nearly 2000 degradation rates all across the globe and degradation rates has a mean of 0.8% per year and a median of 0.5% per year ²² . So, the value 0.7 is acceptable. Further, generation values have also subjected to sensitivity analysis.
	Project Cost	49.62	USD Million	Verified against CIFSR /07/ and cross checked with the approved basic design report /07/ and EPC contract 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. Project verification team has subjected project cost in the sensitivity analysis and found that IRR will cross the benchmark only reduction if the project cost reduced to -27.10% the same is unlikely to happen because the reduction of project cost over 20% is not possible because the actual cost is observed to be lower than the project cost considered from IRR calculation. Hence, GCC Verifier have accepted the same.
	Debt	70	%	

²² [Photovoltaic Degradation Rates -- An Analytical Review: Preprint \(nrel.gov\)](https://www.nrel.gov/pv/analysis/2016/07/27/photovoltaic-degradation-rates-an-analytical-review-preprint)

	Equity	30	%	The debt equity ratio (70:30) considered by project owner at the time of investment decision is mentioned in the CIFSR /07/. 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.
	Interest rate	9.50	%	The interest rate 9.50% has been considered for the investment analysis base on the CIFSR /07/. The project verification team has cross verified the same with UNIDO Handbook on how to access green financing in Viet Nam ²³ . As per the report the interest rate provided by Viet Nam Development Bank (VDB) is around 11%. 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 VDB (Viet Nam Development Bank).
	Debt Repayment Tenure	10	Years	The tenure of term loan and moratorium is considered for the investment analysis based on interbal assumption. The project verification team has cross verified the same with UNIDO Handbook on how to access green financing in Viet Nam ²⁴ . 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	1	Year	
	Operation and Maintenance	0.01	USD Million/ MW	Verified against publicly available VCS solar project of Viet Nam i.e., “PL1974- Srepok 1 Solar Power Project ²⁵ ” and found that the per MW

²³ [2018 Green Financing in Viet Nam.pdf \(unido.org\)](#)

²⁴ [2018 Green Financing in Viet Nam.pdf \(unido.org\)](#)

²⁵ [Verra Search Page](#)

				O&M cost is 0.016 Mn USD/MW. That is for 40 MW the value comes to be around 0.64 million USD. As per the assumption the total actual O&M cost is 0.4 million USD. The parameter is also subjected to sensitivity analysis and the same is not crossing the benchmark even at -100%.
	Escalation in O & M	5	%	PO has assumed internal value for escalation of O&M cost which is also cross checked against the growth in GDP of Viet Nam from 2016 to 2020 as sourced from publicly available data ²⁶ which is around 4%. The consideration of escalation of O&M cost as 5% is found to be correct. Project owner has also subjected the O&M cost to sensitivity; and the project verification team observed that even with 100% variation in O & M cost in the sensitivity analysis the post tax equity IRR is below the benchmark. Therefore, the O & M cost as per assumed is acceptable by the project verification team.
	VAT	10.00	%	The tax rate is sourced from Vietnamese government revised law on VAT dated 3 rd June 2008 ²⁷ which is cross checked and found to be correct which was applicable at the time of investment decision.
	Tariff	0.0935	USD/ kWh	Verified against decision of Vietnamese government about Development of Solar Power Projects in Viet Nam ²⁸ 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 ²⁹ . As per the report mentions the tariff as USD 0.07 per kWh. So, the value 0.0935 found appropriate. The same is cross verified with the CIFSR /07/
	Maximum time of depreciation	15	Year	The depreciation is sourced from circular from Ministry of Finance ³⁰ of Viet Nam. GCC Verifier has cross checked and found correct which is

²⁶ [Vietnam Inflation Rate - June 2023 Data - 1996-2022 Historical - July Forecast \(tradingeconomics.com\)](https://tradingeconomics.com/vietnam/inflation-rates)

²⁷ [Law on Value Added Tax 2008 No. 13/2008/QH12 \(thuvienphapluat.vn\)](http://thuvienphapluat.vn)

²⁸ [Microsoft Word - Decision 11_2017_on Solar FIT_2017-04-11_EN_WORD \(asiapacificenergy.org\)](http://asiapacificenergy.org)

²⁹ [Vietnam's solar FiT program beats expectations | USAID Clean Power Asia \(aseanenergy.org\)](http://aseanenergy.org)

³⁰ <https://www.accaglobal.com/content/dam/acca/global/PDF-students/acca/f6/examdocs/vnm-circular-45-2013-depreciation-fixed-assets.pdf>

				applicable at the time of decision making.
Value of depreciation	2.71	USD Million		The depreciation of the project activity is calculated as per the guidelines provided in paragraph I of annex 2 of guiding regulation ³¹ 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.
Corporate Tax (0-4 years)	0.00	%		PO has considered the corporate tax rate from CIFSR /07/ which is cross checked and found correct and applicable at the time of investment decision.
Corporate Tax (5-13 years)	5.00	%		
Corporate Tax (14-15 years)	10.00	%		
Corporate Tax (16-25 years)	20.00	%		
Salvage value	10	%		The Project owner has considered 10% ³² of the equipment cost as the salvage value and added back the same in the inflow to calculate the project IRR ³³ . This is acceptable as per the accounting principle and also conservative implies to depreciation calculation.
USD to VND Conversion Factor	22,522	VND		GCC Verifier has cross verified from the publicly available data /31/ as per decision making date. and found to be appropriate. Hence acceptable.
Project Lifetime	25	year		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 /16/. The same has been cross verified against the EPC contract /08/ Therefore, financial analysis carried for 25 years is acceptable.

³¹ [vnm-circular-45-2013-depreciation-fixed-assets \(5\).pdf](#)

³² [VND Conversion factor as per SBV dated 24/04/2018 \(Inline with Approval of basic design report - Investment decision time\)](#)

³³ https://www.sbv.gov.vn/TyGia/faces/Aiber.jspx?_afLoop=23774188397506023&_afWindowMode=0&adf.ctrl-state=7bfyp669d_4

The post tax equity IRR calculations were provided in a spreadsheet /03-e/. 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 post tax equity IRR without GCC carbon credit revenues is 7.38% which confirms that the proposed project activity in absence of the GCC carbon credit benefits and compared to the benchmark return on equity 16.15% is not financially attractive.

Sub-step 2d: Sensitivity analysis

A sensitivity analysis has been carried out for parameters contributing more than 20% 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, and net annual generation. Sensitivity analysis was conducted for ±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.

Variation %	-10%	Normal	10%	Variation required to reach benchmark	Value required to reach benchmark
Tariff (USD/kWh)	4.96%	7.38%	9.88%	33.10%	0.124
Net annual generation (GWh)	4.96%	7.38%	9.88%	33.10%	84.65
Project cost (USD (Mn))	9.84%	7.38%	5.44%	-27.10%	36.17
O & M Cost	7.76%	7.38%	6.99%	-246.90%	-0.76

The results of sensitivity analysis /03-e/ show that even with a variation of ±10% in tariff, net annual 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 favourable conditions.

Project is already operational and actual net generation is 1.63 GWh/year for 2020, 65.70 GWh/year for 2021 and 61.96 GWh/year for 2022 which is less than the estimated net generation 63.592 GWh/year used in the IRR computation. IRR will cross the benchmark if the net generation increased more than 33.10%. Hence, there is no possibility of a further increase to net generation at the rate 33.10%.

O&M agreement is already in place by the project owner and O&M used in the calculation is near to the actual O&M. Sensitivity analysis reveals that O&M will breach the benchmark at negative values 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 42.342 Mn USD is less than 49.62 Mn USD project cost used in the IRR calculation which is observed from the EPC Contract /08/ and CIFSR /07/. IRR will only cross the benchmark if the project cost is reduced by 27.10%. Hence, there is no possibility of decrease in the project cost at the rate 27.10%.

As per the Power Purchase agreement the tariff rate of electricity is 0.0935 USD/kWh the same is consistent with value in the PFSR which is taken for Investment analysis. The IRR will only cross the benchmark only if there is an increase 33.10% in the tariff. As per the PPA the tariff is fixed from the date of signing of PPA and there is no

	<p>chances for further variation. Hence variation of the tariff to breach the benchmark is unlikely.</p> <p>Step 3: Barrier Analysis The additionality of the project has been demonstrated by applying the investment analysis, thus no barrier analysis is carried out.</p> <p>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 7.0.0 /B05/ and according to “Common Practice” Tool version 03.1 /B06/.</p> <p>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 40 MW. Therefore, total capacity of power plants which will be included in the analysis will be between 20 MW – 60 MW.</p> <p>Step 2: Identify similar projects (both CDM and non-CDM) which fulfil all of the following conditions:</p> <p>The projects are located in the applicable geographical area;</p> <p>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.</p> <p>The projects apply the same measure as the proposed project activity;</p> <p>Renewable Energy Projects through Solar</p> <p>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;</p> <p>Solar power projects</p> <p>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;</p> <p>The project activity produces electricity; therefore, all solar power plants that produce electricity are candidates for similar projects;</p> <p>The capacity or output of the projects is within the applicable capacity or output range calculated in Step 1;</p> <p>Range in between 20 MW – 40 MW</p> <p>The projects started commercial operation before the project design document (CDM-PDD) 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 of project is considered as i.e. the EPC contract signing date for the solar power plant is 25/11/2018. Therefore, projects which have started commercial operation between 25/09/2002 to 25/11/2018 have been considered for analysis. As per CDM Tool 24, v3.1 /B06/ the start date refers to the date on which the project participants</p>
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	<p>commit to making expenditures for the construction or modification of the main equipment or facility (EB115_repan01_Glossary_CDM_(v11.0)). Hence EPC date has been taken for common practice analysis. At the time of 25/11/2018, only one solar power project was commissioned in Viet Nam. The first commercial operation solar power plant in Viet Nam – 35 MW Phong Dien Solar Plant was commissioned on 05/10/2018³⁴</p> <p>Number of similar projects are identified in step (2). $N_{solar} = 1$³⁵.</p> <p>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_{all}.</p> <p>There are no project that meet the conditions/ and is given below. Hence $N_{all} = 01$</p> <p>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_{diff}.</p> <p>Projects with technologies different to technology applied in the proposed project activity were identified as $N_{diff} = 0$.</p> <p>Step 5: calculate factor $F = 1 - (N_{diff}/N_{all})$ 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.</p> <p>The factor F was found to be in line with Tool 24 $F = 1 - (N_{diff}/N_{all}) = 1 - (0/1) = 1$ $N_{all} - N_{diff} = 1 - 0 = 1$</p> <p>Since the proposed project activity would be common practice only both of the following conditions apply.</p> <p>$F > 0.2$ and $N_{all} - N_{diff} > 3$</p> <p>For the concerned project, $F = 1$ and $N_{all} - N_{diff} = 1$ (Which is less than 3), therefore, the proposed project is not a common practice within the applicable geographical area. Hence, the proposed project is additional.</p>
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D.3.6 Estimation of emission reductions or net anthropogenic removal

Means of Project Verification	Desk Review and Interviews
Findings	CAR 07 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.
Conclusion	Baseline Emission

³⁴ <http://vir.com.vn/first-35mw-solar-power-plant-in-Viet-Nam-goes-online-62905.html>

³⁵ <https://thuvienphapluat.vn/cong-van/Tai-nguyen-Moi-truong/Cong-van-4614-BCT-DL-2018-bao-cao-tinh-hinh-phat-trien-dien-mat-troi-395995.aspx>

According to ACM0002 v21.0 methodology /B01/, emission reductions related to project activities is estimated as follows:

$$BE_y = EG_{PJ, y} \times EF_{grid, CM, y}$$

Where:

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

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

$EF_{grid, CM, y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of "TOOL07: Tool to calculate the emission factor for an electricity system" version 07.0(t CO₂/MWh).

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-e/. According to ER Sheet, $EG_{PJ, y}$ is 61,632 MWh/yr. Also, According to "Research and develop emission factor (EF) of Viet Nam's electricity grid in 2020 (attached with OL 1316/BDKH-TTBVTOD)" document from Department of Climate Change - Ministry of Natural Resources and Environment /27/, the emission factor ($EF_{grid, CM, y}$) could be used as 0.8641 tCO₂/MWh. At the time of GSC this data was available, and it satisfies the requirements of para 8 and 9 of Clarification No. 3 /B02-7/

Therefore,

$$BE_y = 61,632 \text{ MWh/year} \times 0.8641$$

$$BE_y = 53,255 \text{ tCO}_2\text{e}$$

Project Emissions (PE_y)

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 /B01/.

Hence, $PE_y = 0$

Leakage (LE_y)

As per ACM0002 /B01/, no leakage emissions are considered.

Therefore, $LE_y = 0$.

Emission Reductions

Based on the data above, the emission reduction value for the project activity is:

$$ER_y = BE_y - PE_y - LE_y$$

$$ER_y = BE_y = 53,241 \text{ tCO}_2\text{e}$$

Parameters available at the time of project verification (ex-ante) (Mention under section B.6.2 of the PSF) are:

Parameter	Value	Unit	GCC Verifier Assessment
Operating Margin CO ₂ emission factor in year y of Viet Nam national Grid.	0.9242	tCO ₂ 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)

	($EF_{grid,OM,y}$)			<p>/27/. 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 2020 (attached with OL 1316/BDKH-TTBVTOD)” document from Department of Climate Change - Ministry of Natural Resources and Environment /27/ 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. /B04/. Hence, accepted by the project verification team.</p>
	Build Margin CO ₂ emission factor in year y of Viet Nam national Grid ($EF_{grid,BM,y}$)	0.6840	tCO ₂ e/MWh	<p>As per the “tool to calculate the emission factor for an electricity system” Version 07.0 /B04/, the build margin emissions factor is the generation-weighted average emission factor (tCO₂/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 2020 (attached with OL 1316/BDKH-TTBVTOD)” document from Department of Climate Change - Ministry of Natural Resources and Environment /27/. The calculation procedures are outlined in the PSF /01-f/. Hence, accepted by the project verification team.</p>

	Combined Margin CO ₂ emission factor in year y of Viet Nam National Grid ($EF_{grid,CM,y}$)	0.8641	tCO ₂ 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 /B04/ which GCC verifier appropriate as per Clarification No.3 /B02-7/ para. 8 (a)
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D.3.7 Monitoring plan

Means of Project Verification	Desk Review and Interviews										
Findings	CL 04, CAR 08 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.										
Conclusion	<p>The approved baseline and monitoring methodology “ACM0002” version 21 /B01/ has been applied. The monitoring plan is in accordance with the monitoring methodology; 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>CCIPL 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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Parameter</th> <th style="text-align: left;">Frequency</th> <th style="text-align: left;">Unit</th> <th style="text-align: left;">GCC Verifier Assessment</th> </tr> </thead> <tbody> <tr> <td>EG_{facility,y} (Net Electricity generated and delivered to the grid by the power plant in year y)</td> <td>Monthly</td> <td>MWh/ Year</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</p> <p>There are two meters 0.2s/0.5s accuracy class (main meter and check meter) bidirectional meters are installed at the EVN substation to measure and</p> </td> </tr> </tbody> </table>			Parameter	Frequency	Unit	GCC Verifier Assessment	EG _{facility,y} (Net Electricity generated and delivered to the grid by the power plant in year y)	Monthly	MWh/ Year	<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</p> <p>There are two meters 0.2s/0.5s accuracy class (main meter and check meter) bidirectional meters are installed at the EVN substation to measure and</p>
Parameter	Frequency	Unit	GCC Verifier Assessment								
EG _{facility,y} (Net Electricity generated and delivered to the grid by the power plant in year y)	Monthly	MWh/ Year	<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</p> <p>There are two meters 0.2s/0.5s accuracy class (main meter and check meter) bidirectional meters are installed at the EVN substation to measure and</p>								

				<p>record the net electricity supplied to the grid.</p> <p>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 Measurements³⁶, Which is calibration and verification for 3 phase meters need to be conducted every 36 months. The net generation is the sum of the total exported from the two meters. The parameter is monitored continuously and recorded monthly on the every month for the preceding month through Joint Meter Reading collectively taken by representative of PO and representative of EVN. This is validated by the JMR /13/ copy submitted by PO and through interview with the relevant stakeholders during the on-site audit /25/.</p>
	GHG emission reductions CO ₂ emissions (EA03)	Monthly	tCO _{2e} / year	<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 CO₂ emission reduction is calculated by multiplying the 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 53,255 tCO_{2e} annually.</p> <p>The CO₂ emission reduction is validated from the ER calculation sheet /02-e/ and</p>

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https://thuvienphapluat.vn/van-ban/Bo-may-hanh-chinh/Thong-tu-07-2019-TT-BKHCN-sua-doi-Thong-tu-23-2013-TT-BKHCN-424852.aspx?anchor=dieu_2_1

				found appropriate. This parameter is used for the contribution of the SDG 13 Take urgent action to combat climate change and its impacts parameter.
	Solid waste Pollution from Hazardous wastes (EL02)	Tonnes	Annual	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.
	Solid waste Pollution from E-wastes (EL04)	Tonnes	Annual	
	Solid waste Pollution from end-of-life products/ equipment (EL06)	Tonnes	Annual	The waste management plan /19/ of the company have been verified by the GCC Verifier and found to be in compliance with the Circular No.36/2015/TT-BTNMT dated 30/06/2015 of MONRE on Management of Hazardous Waste ³⁷ . The monitoring parameter will be continuously monitored by means of plant records. The project activity has monitored the generation of waste and maintain the disposal record for verification /19/. 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.
	Solid waste pollution from batteries (EL05)	Tonnes	Annual	
	Sanitation and waste management (SHS08)	Tonnes	Annual	
	Water Consumption from ground and other sources (EW02)	m ³ / day	Annually	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. GCC Verifier has found that the project activity is in compliance with the Decree No: 02/2023/ND-CP Dated 01/02/2023 – The Water Resource Law ³⁸ with Legal Limit: Surface water exploitation:

³⁷ http://vepg.vn/wp-content/uploads/2020/07/36_2015_TT-BTNMT_EN.pdf

³⁸ <https://thuvienphapluat.vn/van-ban/Tai-nguyen-Moi-truong/Nghi-dinh-02-2023-ND-CP-huong-dan-Luat-Tai-nguyen-nuoc-513343.aspx>

				<p>Less than 50000 m³/day and night and Ground Water Usage: 12000 m³/day and night PO has maintained water consumption records /19/ which GCC verifier reviewed and found satisfactory</p>
	<p>Replacing fossil fuels with renewable sources of energy (ENR07)</p>	<p>Monthly</p>	<p>MWh</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 JMR 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 on-site meters. The project activity is expected to replace 61,632 MWh annually.</p> <p>The source of electricity generation replacement is validated from the ER calculation sheet /02/ and JMR /13/ and found appropriate.</p> <p>This parameter is used for the contribution of the SDG 7: Ensure access to affordable, reliable, sustainable, and modern energy for all and ENR 07: Replacing fossil fuels with renewable sources of energy parameter.</p>
	<p>Long- term (> 10 year) created (SJ01)</p>	<p>Annual</p>	<p>No of employees</p>	<p>The project activity has claimed created of on-site long-term jobs. At the time of project verification project activity has generated around 15 numbers of long-term jobs during project lifetime. This has been validated by the</p>

				<p>employment records /22/ submitted by the PO.</p> <p>The monitoring parameter will be continuously monitored by means of employment records. This parameter is used for the contribution of SDG 8: Promote sustained, inclusive, and sustainable economic growth, full and productive employment and decent work for all</p>
	Women's empowerment (SW06) (Human rights)	No. of women employee	Annually	<p>Company providing employment opportunities for women will avoid the risk of gender discrimination and social instability in the society as per Resolution No. 28/NQ-CP dated March 03, 2021 on issuance of national strategy for gender equality in 2021 - 2030³⁹. GCC Verifier has cross checked this with employment records /21/ and confirms that the PO is 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 /21/ 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>
	Community and rural welfare	No. of activities	Annually	<p>The project activity has claimed to create a number of activities directed to the local community. At the time of</p>

³⁹ <https://lawnet.vn/en/vb/Resolution-28-NQ-CP-2021-issuance-of-national-strategy-for-gender-equality-2021-2030-73CB8.html>

				<p>project verification, the project activity has organised activities directed to local population and improvement of local welfare. This has been validated by the CSR activities records /24/, On-site audit /25/ and interview.</p> <p>The monitoring parameter will be continuously monitored by means of CSR activities records</p>
	<p>Avoiding discrimination when hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities (SJ04)</p>	<p>Labour regulation</p>	<p>Continuous</p>	<p>PO has submitted the labour Policy for Recruitment and Onboarding /22/. The HR policy states that the recruitment process of the company follows the commitment to equality, diversity and inclusion. GCC Verifier has verified the labour regulation 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 /30/. This establishes the communal harmony between the PO and the local community. PO has considered +1 score for this parameter and, it is monitored continuously throughout the crediting period.</p>
	<p>Exploitation of child labour (SW08)</p>	<p>Number of Jobs</p>	<p>Annually</p>	<p>The project activity as claimed for Exploitation of child labor. At the time of project verification the PO has submitted the employees list and employment records /22/. GCC verifier has cross checked and confirms that the project activity complies with 1.Code No.45/2019/QH14⁴⁰ – 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</p>

⁴⁰ http://boluatlaodong2019.molisa.gov.vn/lang_en/topic/viet_nam_labour_code/index

				Constitution of the Socialist Republic of Viet Nam ⁴¹ . The monitoring parameter will be continuously monitored by means of employment records.
	Reducing/increasing accidents/incidents/fatality (SHS03)	Number of accidents/incidents	Annually	PO has mentioned that they will provide 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 /28/, /21/ and OHS records /29/ 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 check on Physical hazards.

The monitoring plan content has been checked in the project activity and compared against the requirements of the monitoring methodology /B01/. 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.

Data Recording frequency and Procedures:

The electricity produced by the project activities is recorded through a set of main meter and backup meter. During audit, GCC Verifier has validated by cross checking the details of both the meters through interview, document review (JMR /13/ and calibration certificate /14/) and found correct. The details of the all the meters are provided below:

Parameters	GT1	
	Main Meter	Backup Meter
SI.No	131C- 19061775	131DPI- 19049961 171- 19055227 431- 19050048
Accuracy	0.2	0.5
Type	Bidirectional	Bidirectional

GCC Verifier has validated the calibration or testing of the energy meters /14/. The meters are calibrated and verified pursuant to the calibration frequency defined in the PPA /10/. The meters need to be calibrated once in the year during the project operation and this has been cross checked by the calibration records submitted by the PO /14/.

⁴¹ <https://thuvienphapluat.vn/van-ban/Van-hoa-Xa-hoi/Law-102-2016-QH13-children-312407.aspx>

	<p>QA / QC Procedure:</p> <p>To maintain the QA / QC procedure, PO continuously records the energy data of both the meters. The meters are calibrated and verified pursuant to the calibration frequency defined in the PPA /10/. The meters need to be calibrated once in the year during the project operation and this has been cross checked by the calibration records submitted by the PO /14/. The meters will be calibrated and verified pursuant to calibration frequency defined in 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.</p> <p>The monitoring plan presented in the PSF /01-f/ complies with the requirements of the applied monitoring methodology /B01/. The verification team has verified all parameters in the monitoring plan against the requirements of the methodology and no deviations have been found.</p> <p>The verification team, through a document review and interviews with the relevant stakeholders has reviewed the procedures. The information provided has allowed the verification team to confirm that the proposed monitoring plan is feasible within the project design.</p> <p>In summary, the parameters to be monitored have been presented correctly according to requirements and are considered in accordance with the applied methodology /B01/. This is in conformance with the requirements of GCC Verification Standard (version 3.1) /B02-2/. All the parameters mentioned in the PSF have been verified by the GCC Verifier.</p>
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D.4. Start date, crediting period and duration

Means of Project Verification	Desk Review and Interviews
Findings	No findings are raised.
Conclusion	<p>The start date of the project is 10/12/2020, which is the start date of commercial operation of the project /06/. As per the paragraph 38 of the project standard V3.1, start of commercial operations has been considered as the start date. Hence project commissioning date (COD), on which project is connected to grid and started generating power and exporting to the grid there by started generating GHG emission reductions is considered as start date. Hence the start date 11/06/2019 is justified. Crediting period has been chosen as fixed 10 years from 10/12/2020 to 09/12/2030.</p> <p>A crediting period of a maximum length of 10 years has been selected by project proponent. Therefore, the duration of the crediting period is from 10/12/2020 to 09/12/2030. The project is a type A2 since the crediting period is after 1 Jan 2016 but not more than one year after the start of the operation of the GCC project activity as per para 40(b) of the GCC Project standard /B02-1/. Technical lifetime for the project activity is 25 years /16/. The project verification team concludes that the duration of the proposed project activity is in conformance with the requirements of paragraph 39 and paragraph 40(b) of GCC Project Standard, version 03.1 /B02-1/.</p>

D.5. Environmental impacts

Means of Project Verification	Desk Review and Interviews
Findings	CL 05 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.

Conclusion	<p>As per the review of the Environmental Protection of the Government of Viet Nam, Government’s Decree NO: 18/2015/ND-CP, dated February 14, 2015⁴², Project Owner must prepare and submit the detailed Environmental Impact Assessment Report 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 /12/ was submitted and approved by the respective district “Department of Natural resources and Minerals, Provincial People Committee”. EIA approval Decision Decision No.1239/QD-UBND, 24/05/2019 /11/ 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>
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D.6. Local stakeholder consultation

Means of Project Verification	Desk Review and Interviews
Findings	CL 07 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.
Conclusion	<p>It has been indicated in the PSF /01-f/ that the local stakeholder consultation has been done for the project activity on 03/04/2019 at the project site /20/. 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 that is before the commissioning of the project activity.</p> <p>The meeting announcement was done by putting public notice at project site/nearby village. The same covers meeting location, date, time, and contact information/20/. A summary of comments has been provided by the project owner in the PSF/01-f/ 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 /25/.</p> <p>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. CCIPL considers the local stakeholder consultation is carried out adequately and can confirm that the process is in line with the requirements of GCC /B02/.</p>

D.7. Approval and Authorization- Host Country Clearance

Means of Project Verification	Desk Review and Interviews
Findings	FAR 01 is raised. Please refer to Appendix 4 for further details.
Conclusion	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

Means of Project Verification	Desk Review and Interviews
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⁴² https://binhdinh.eregulations.org/media/18_2015_ND-CP_268489.pdf

Findings	CL 01, CL 09 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.																																
Conclusion	<table border="1"> <tr> <td>Organization Name</td> <td>Gio Thanh Energy Joint Stock Company</td> </tr> <tr> <td>Country</td> <td>Viet Nam</td> </tr> <tr> <td>Address</td> <td>Nhi Ha Village, Gio Hai Commune, Gio Linh district, Quang Tri Province, Viet Nam.</td> </tr> <tr> <td>Telephone</td> <td>+84 987080525 & +84 389168947</td> </tr> <tr> <td>Fax</td> <td>-</td> </tr> <tr> <td>E-mail</td> <td>vunn@bbgroup.com.vn & nguyenhoanmy92@gmail.com</td> </tr> <tr> <td>Website</td> <td>www.bbgroup.com.vn</td> </tr> <tr> <td>Contact person</td> <td>Mr. Nguyen Ngoc & Mr. Nguyen Hoan My</td> </tr> </table> <table border="1"> <tr> <td>Organization Name</td> <td>Kosher Climate India Private Limited</td> </tr> <tr> <td>Country</td> <td>India</td> </tr> <tr> <td>Address</td> <td>Zee Plaza, No.1678, Ground and 1st Floor, 27th Main Rd, near Andhra Bank, Sector 2, HSR Layout, Bengaluru, Karnataka 560102</td> </tr> <tr> <td>Telephone</td> <td>+91 9632803444 & +91 9945343475</td> </tr> <tr> <td>Fax</td> <td>-</td> </tr> <tr> <td>E-mail</td> <td>Narendra@kosherclimate.com & vamsi@kosherclimate.com</td> </tr> <tr> <td>Website</td> <td>https://kosherclimate.com/</td> </tr> <tr> <td>Contact person</td> <td>Narendra Kumar Ramaraj & Vamsi Krishna Manchikalapudi</td> </tr> </table> <p>This is in compliance with the Para 10 (i) of the Project Standard Version 3.1/B02-1/. 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 by the project owners /04/. All information was consistent between these documents.</p> <p>The GCC Verifier has reviewed the Incorporation certificate /05/ of Gio Thanh Energy Joint Stock Company and confirmed the legal validity of the project.</p> <p>The GCC Verifier team thus confirms the legal ownership of the solar project activity from the LOA /04/. The project verification team has checked the LOA /04/ submitted by the client and confirms Kosher Climate India private Limited is the authorized representative of proposed project activity developed by Gio Thanh Energy Joint Stock Company. All the information was consistent between these documents.</p>	Organization Name	Gio Thanh Energy Joint Stock Company	Country	Viet Nam	Address	Nhi Ha Village, Gio Hai Commune, Gio Linh district, Quang Tri Province, Viet Nam.	Telephone	+84 987080525 & +84 389168947	Fax	-	E-mail	vunn@bbgroup.com.vn & nguyenhoanmy92@gmail.com	Website	www.bbgroup.com.vn	Contact person	Mr. Nguyen Ngoc & Mr. Nguyen Hoan My	Organization Name	Kosher Climate India Private Limited	Country	India	Address	Zee Plaza, No.1678, Ground and 1 st Floor, 27 th Main Rd, near Andhra Bank, Sector 2, HSR Layout, Bengaluru, Karnataka 560102	Telephone	+91 9632803444 & +91 9945343475	Fax	-	E-mail	Narendra@kosherclimate.com & vamsi@kosherclimate.com	Website	https://kosherclimate.com/	Contact person	Narendra Kumar Ramaraj & Vamsi Krishna Manchikalapudi
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D.9. Global stakeholder consultation

Means of Project Verification	Desk Review and Interviews
Findings	No findings are raised.
Conclusion	<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 was published for global stakeholder consultation from 12/12/2022 to 26/12/2022. During the above period no Global stakeholders' comments were received.</p> <p>PSF version 2.0, dated 23/11/2022 was published on the GCC website and invited comments from affected parties, stakeholders, and non-governmental organizations</p>

	<p>from 12/12/2022 to 26/12/2022 (https://www.globalcarboncouncil.com/global-stakeholders-consultation/). No comments were received during this period.</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>
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D.10. Environmental Safeguards (E+)

Means of Project Verification	Desk Review and Interviews										
Findings	CL 08 and CAR 10 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.										
Conclusion	<p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Impact of Project Activity on Environmental Safeguards</th> <th style="width: 25%;">Project Owner's Conclusion</th> <th style="width: 15%;">Score</th> <th style="width: 35%;">GCC Verifier Assessment</th> </tr> </thead> <tbody> <tr> <td>CO₂ Emission</td> <td> <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> </td> <td style="text-align: center;">+1</td> <td> <p>The project activity being renewable power generation avoids CO₂ emissions that would have occurred in baseline scenario due to the electricity generation in thermal power plants. The impacts is being monitored through parameter 'CO₂ 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</p> </td> </tr> </tbody> </table>			Impact of Project Activity on Environmental Safeguards	Project Owner's Conclusion	Score	GCC Verifier Assessment	CO ₂ Emission	<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 CO₂ emissions that would have occurred in baseline scenario due to the electricity generation in thermal power plants. The impacts is being monitored through parameter 'CO₂ 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</p>
Impact of Project Activity on Environmental Safeguards	Project Owner's Conclusion	Score	GCC Verifier Assessment								
CO ₂ Emission	<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 CO₂ emissions that would have occurred in baseline scenario due to the electricity generation in thermal power plants. The impacts is being monitored through parameter 'CO₂ 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</p>								

				found acceptable by the verification team.
	Replacing fossil fuels with renewable sources of energy	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	+1	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 generation and invoices report /13/. The same is confirmed during the onsite visit /25/. Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
	Solid waste Pollution from Hazardous wastes (EL 02)	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. Since the impact of parameter is within the regulatory limits and is being measured and monitored to	+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 section D.3.7 of this report. An appropriate monitoring plan has been put in

		demonstrate the impact is harmless this parameter is scored as +1		place to monitor the parameter for the impact. Hence, the scoring has found acceptable by the team
	Solid waste Pollution from E-wastes (EL 04)	<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>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.</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 monitored as 'Solid waste Pollution from end-of-life products/ equipment (EL06) and validated</p>

				<p>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>
	<p>Solid waste pollution from batteries (EL 05)</p>	<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>
	<p>Land use change (change from cropland /forest land to project land) (EL08)</p>	<p>The impact is unlikely to cause any harm</p>	0	<p>The land for the project activity is a leased land /17/. The land was taken for development of project activity with mutual agreement. The PO has paid the land conversion fee. GCC Verifier has crosschecked</p>

				<p>the same with the Land acquisition Letter /17/ and found appropriate and confirms that the land is not suitable for cultivation and has been taken for development of Solar Power Project. It is also confirmed from the interview with the stakeholder during on site visit /25/.</p> <p>Hence, GCC verifier concludes that the parameters is harmless and scored appropriately.</p>
	<p>Water Consumption from ground and other sources (EW02)</p>	<p>There is no impact due to the consumption of water resources. The impact is positive compared to the baseline scenario where the water consumption is comparatively higher for thermal power projects. Since the impact i.e quantity of water saved is not being monitored this parameter is scored as "+1"</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 cross checked the same from water consumption records /19/ and during site visit /25/. PO has considered +1 for this parameter, and it is verified as harmless.</p>
<p>Negative Impacts:</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 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>
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D.11. Social Safeguards (S+)

Means of Project Verification	Desk Review and Interviews										
Findings	CL 08 and CAR 10 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.										
Conclusion	<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 and the supporting document 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%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #cccccc;">Impact of Project Activity on Environmental Safeguards</th> <th style="background-color: #cccccc;">Project Owner's Conclusion</th> <th style="background-color: #cccccc;">Score</th> <th style="background-color: #cccccc;">GCC Verifier Assessment</th> </tr> </thead> <tbody> <tr> <td>Long- term jobs (> 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 & generate permanent employment for local people. Therefore, this parameter will be scored.</td> <td>+1</td> <td> <p>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.</p> <p>The employment was verified from employment records /22/ and during the on-site audit/25/ and by interviews and it was accepted by the GCC</p> </td> </tr> </tbody> </table>			Impact of Project Activity on Environmental Safeguards	Project Owner's Conclusion	Score	GCC Verifier 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 parameter will be scored.	+1	<p>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.</p> <p>The employment was verified from employment records /22/ and during the on-site audit/25/ and by interviews and it was accepted by the GCC</p>
Impact of Project Activity on Environmental Safeguards	Project Owner's Conclusion	Score	GCC Verifier 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 parameter will be scored.	+1	<p>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.</p> <p>The employment was verified from employment records /22/ and during the on-site audit/25/ and by interviews and it was accepted by the GCC</p>								

				Verification team that appropriate monitoring plan is going to be implemented.
	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 Labour Policy for Recruitment and Onboarding /22/. The Labour 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 labour 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	+1	PO has well onsite established OSH records /29/ and training records. /28/,/21/ The project owner will provide regular safety training to their workers about the accident

		<p>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. Therefore this parameter will be scored +1.</p>		<p>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 guideline⁴³ 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.</p>
	<p>Sanitation and waste management (SHS08)</p>	<p>Management will ensure proper disposal 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.</p>	<p>+1</p>	<p>In the solar power plant sanitation and waste management is very less. However, PO has Waste management plan⁴⁴ 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</p>

⁴³ <http://www.ilo.org/dyn/natlex/docs/MONOGRAPH/99774/119205/F-595449136/VNM99774.pdf>

⁴⁴ <https://thuvienphapluat.vn/van-ban/Tai-nguyen-Moi-truong/Decree-08-2022-ND-CP-elaboration-Articles-of-the-Law-on-Environmental-Protection-507203.aspx>

		<p>Planning of toilets, soak pits and septic tanks, waste collection areas will be away from natural drainage channels Therefore this parameter will be scored +1.</p>		<p>considered +1 score for this parameter and, it is verified as harmless.</p>
	<p>Specialized training/ education to local personnel (SE01)</p>	<p>The project Owner will provide regular job related training to their workers.. Hence this parameter will be scored.</p>	+1	<p>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 /21/ 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>
	<p>Community and rural welfare (indigenous people and communities) (SW02)</p>	<p>Project owner will keep interacting with the local community and identify the minimum accessibility needs of the community from time to time. By implementing the project activity project owner has already been</p>	+1	<p>The project activity has claimed to create a number of activities directed to the local community. At the time of project verification, the project activity has organised activities directed to local population and improvement</p>

		<p>contributed to local economic development, employment creation etc. This is a continuous process during the project lifetime.</p>		<p>of local welfare. This has been validated by the CSR activities records /24/, On-site audit /25/ and interview.</p> <p>PO has considered +1 score for this parameter, and it is verified as harmless.</p>
	<p>Women's empowerment (SW06) (Human rights)</p>	<p>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.</p> <p>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 will be scored.+1.</p>	+1	<p>Company has employed 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.</p> <p>PO has considered +1 score for this parameter and, it is verified as harmless.</p>
	<p>Exploitation of Child labour (Human rights) (SW08)</p>	<p>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.</p>	+1	<p>Employment to children below 15 years in any organization in Viet Nam is strictly prohibited by law. The HR department of PO also abide by these rules and</p>

				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
<p>Negative Impacts:</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 +8. 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+)

Means of Project Verification	Desk Review and Interviews											
Findings	CL 06 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.											
Conclusion	<p>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 /01-f/. 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.</p> <table border="1" data-bbox="502 1691 1492 2027"> <thead> <tr> <th>UN- level SDGs</th> <th>Project Level Description</th> <th>Monitoring Procedure</th> <th>GCC Verifier Assessment</th> </tr> </thead> <tbody> <tr> <td>Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all</td> <td>Contribute renewable energy share in total grid energy consumption. Annually generate around 61,632 MWh of</td> <td>Described in section D.3.7 of this report</td> <td>The project activity contributes towards this goal by replacing the generation of electricity from fossil fuel dominated grid in baseline by</td> </tr> </tbody> </table>				UN- level SDGs	Project Level Description	Monitoring Procedure	GCC Verifier Assessment	Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	Contribute renewable energy share in total grid energy consumption. Annually generate around 61,632 MWh of	Described in section D.3.7 of this report	The project activity contributes towards this goal by replacing the generation of electricity from fossil fuel dominated grid in baseline by
UN- level SDGs	Project Level Description	Monitoring Procedure	GCC Verifier Assessment									
Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	Contribute renewable energy share in total grid energy consumption. Annually generate around 61,632 MWh of	Described in section D.3.7 of this report	The project activity contributes towards this goal by replacing the generation of electricity from fossil fuel dominated grid in baseline by									

	<p>7.2 Increase global percentage of renewable energy</p> <p>7.2.1 Renewable energy share in the total final energy consumption.</p>	<p>renewable energy using solar energy</p>		<p>renewable solar-based power generation. The contribution towards SDG goal is being monitored by the parameter 'EG_{PJ,y}', 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>Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p> <p>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</p> <p>Indicator: 8.5.1 Average hourly earning of employee by sex, age, occupation and persons with disabilities.</p>	<p>1. Employment as per the national labour and company law including national gender policy</p> <p>2. Maintains company HR policy to create standard operating 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. Create employment for minimum wages as per the minimum wages act of host country</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 number of people during the project lifetime /22/. This is being monitored by the parameter 'Long-term jobs (> 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>Goal 13. Take urgent action to combat climate change and its impacts.</p> <p>13.2 Integrate climate change</p>	<p>Achieve annual emission reductions of 53,255 tCO₂e 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 'CO₂ emission reduction' in the monitoring plan and is found</p>

	<p>measures into national policies, strategies and planning</p> <p>Indicator: 13.2.2 Total greenhouse gas Convention on climate change. 13.2.2 Total greenhouse gas emission per year.</p>			<p>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>				

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

Means of Project Verification	Desk Review and Interviews
Findings	FAR 01 has been raised and to be verified during subsequent verification. Please refer Appendix 4 for further details.
Conclusion	<p>A declaration /23/ under section A.5 of the PSF has been included for offsetting the approved carbon credits (ACCs) for the entire crediting period from 10/12/2020 to 09/12/2030.</p> <p>The host country 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+)

Means of Project Verification	Desk Review and Interviews
Findings	CAR 04 has been raised and closed satisfactorily. Please refer Appendix 4 for further details.
Conclusion	<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"> 1. It will reduce a forecasted amount of greenhouse gases, since project activity is the implementation of renewable energy system. 2. Likely to achieve Environmental No-net harm (E+ label) as discussed in section D.10. 3. Likely to achieve Social No-net harm (S+ label) as discussed in section D.11. 4. Likely to achieve SDG+ label with Sliver Certification label. <p>The project activity meets the CORSIA eligibility.</p>

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 /26/ of the project activity “Gio Thanh 1 Solar Power Plant” in Viet Nam. 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 CO₂e 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 53,255 tCO₂e/year over the 10 years crediting period starting from 10/12/2020 to 09/12/2030.

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 Limited (CC IPL) has verified and hereby certifies that the GCC project activity “Gio Thanh 1 Solar Power Plant”.

a. Has correctly described the Project Activity in the Project Submission Form (version 7.0, dated 24/11/2023) /01-f/ including the applicability of the approved 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 61,632 MWh / year of electricity (for the fixed 10 years crediting period), as indicated in the PSF version 07 /01-f/, which are generated from existing baseline scenario of the national grid of Viet Nam in 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 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 Nonet-harm Label (E+) and the Social No-net-harm Label (S+); and

d. is likely to contribute 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+)

e. is likely to contribute to CORSIA Eligible Emission Units and has CORSIA Label (C+) certification valid till 31 December 2020. A written attestation from the Host country on double counting is not required until 31 December 2020 and the project was found meeting the applicable requirements prescribed by ICAO.

The GCC project verification report describes a total of 20 findings, which include:

- 09 Corrective Action Requests (CARs)
- 10 Clarification Requests (CLs)
- 01 Forward Action Requests (FARs)

All the CARs and CLs are resolved by the project owner and the FAR remains open for subsequent verification.

Appendix 1. Abbreviations

Abbreviations	Full texts
ACC	Approved Carbon Credits
ACC+	Approved Carbo Credit Label
BESS	Battery Energy Storage System
BM	Build Margin
CAR	Corrective Action Required
CC IPL	Carbon Check (India) Private Limited
CDM	Clean Development Mechanism
CL	Clarification Request
CIFSR	Construction Investment Feasibility Study Report
CM	Combined Margin
CORSIA	Carbon Offsetting and Reduction Scheme for International Aviation
DR	Document Review
E+	Environmental No net harm Label
EIA	Environmental Impact Assessment
ESIA	Environmental and Social Impact Assessment
EPC	Engineering Procurement and Construction
ERVVR	Emission Reduction Verification Report
EVN	Vietnam Electricity
FAR	Forward Action Request
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
JMR	Joint Meter Reading
KCIPL	Kosher Climate India Private Limited
LSC	Local Stakeholder Consultation
MoM	Minutes of Meeting
NREL	National Renewable Energy Laboratory
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
SCADA	Supervisory Control And Data Acquisition
SDG+	United Nation Sustainable Development Goal Label
UNFCCC	United Nations Framework Convention on Climate Change
UNIDO	United Nations Industrial Development Organization
USPP	Utility Scale Power Plant

Project Verification Report

VAT	Value Added Tax
VB	Verification Body
VDB	Vietnam Development Bank

Appendix 2. Competence of team members and technical reviewers

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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/IEC 14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

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

in the following Technical Areas:

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

Issue Date 1 st January 2023	Expiry Date 31 st December 2023
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Mr. Vikash Kumar Singh
Compliance Officer



Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023



Carbon Check (India) Private Limited

Certificate of Competency

Mr. Rishi Raychoudhury

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

for the following functions and requirements:

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

in the following Technical Areas:

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

Issue Date
1st January 2023

Expiry Date
31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO



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"/> SDG+ | <input type="checkbox"/> Social no-harm(S+) | <input type="checkbox"/> Environment no-harm(E+) | <input type="checkbox"/> CCB Expert |
| <input type="checkbox"/> Financial Expert | <input checked="" type="checkbox"/> Local Expert for 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 | | | |

Issue Date
1st January 2023

Expiry Date
31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO



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 checked="" type="checkbox"/> SDG+ | <input checked="" type="checkbox"/> Social no-harm(S+) | <input checked="" type="checkbox"/> Environment no-harm(E+) | <input type="checkbox"/> CCB Expert |
| <input checked="" type="checkbox"/> Financial Expert | <input checked="" type="checkbox"/> Local Expert for India | | |

in the following Technical Areas:

- | | | | | |
|--|--|----------------------------------|---|---|
| <input checked="" type="checkbox"/> TA 1.1 | <input checked="" type="checkbox"/> TA 1.2 | <input type="checkbox"/> TA 2.1 | <input checked="" type="checkbox"/> TA 3.1 | <input type="checkbox"/> TA 4.1 |
| <input type="checkbox"/> TA 4. n | <input 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 | | | |

Issue Date
1st January 2023

Expiry Date
31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Appendix 3. Document reviewed or referenced

No.	Author	Title	References to the document	Provided by PO
/01/	Kosher Climate India Private Limited	a. Initial PSF- Gio Thanh 1 Solar Power Plant b. Revised PSF- Gio Thanh 1 Solar Power Plant c. Revised PSF- Gio Thanh 1 Solar Power Plant d. Revised PSF- Gio Thanh 1 Solar Power Plant e. Revised PSF- Gio Thanh 1 Solar Power Plant f. Final PSF- Gio Thanh 1 Solar Power Plant	Version 2.0, Dated 23/11/2022. Version 3.0, Dated 07/07/2023 Version 4.0, Dated 10/08/2023. Version 5.0, Dated 31/10/2023. Version 6.0, Dated 21/11/2023 Version 7.0, Dated 24/11/2023	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
/02/	Kosher Climate India Private Limited	a. Initial ER Sheet- Gio Thanh 1 Solar Power Plant b. Revised ER Sheet- Gio Thanh 1 Solar Power Plant c. Revised ER Sheet- Gio Thanh 1 Solar Power Plant d. Revised ER Sheet- Gio Thanh 1 Solar Power Plant e. Final ER Sheet- Gio Thanh 1 Solar Power Plant • Estimated ER • EF	Version 01. Version 02,03 Version 04 Version 05 Version 06	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
/03/	Kosher Climate India Private Limited	a. Initial IRR Sheet- Gio Thanh 1 Solar Power Plant b. Revised IRR Sheet- Gio Thanh 1 Solar Power Plant c. Revised IRR Sheet- Gio Thanh 1 Solar Power Plant d. Revised IRR Sheet- Gio Thanh 1 Solar Power Plant	Version 01. Version 02,03. Version 04 Version 05 Version 06	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

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		e. Final IRR Sheet- Gio Thanh 1 Solar Power Plant <ul style="list-style-type: none"> • Benchmark • Input Parameters • Project Cost • Interest • P&L • Revenues • Expenses • Depreciation • Sensitivity Analysis 		
/04/	PO	Letter of authorization of project owner	20/10/2023	<input checked="" type="checkbox"/>
/05/	Department of Planning and Investment	Incorporation Certificate of the Project Owner	20/10/2017	<input checked="" type="checkbox"/>
/06/	EVNEPTC	Commissioning Certificate	10/12/2020	<input checked="" type="checkbox"/>
/07/	Department of Electricity and Renewable Energy Gio Thanh Energy Joint Stock Company	Basic Design Report Approval Construction Investment Feasibility Study report	12/04/2018 2018	<input checked="" type="checkbox"/>
/08/	GIO THANH JOINT STOCK COMPANY	EPC contract- 25/11/2018/EPC-GT1: Gio Thanh Joint Stock company and Electrical Construction Consulting Joint Stock Company 2	25/11/2018	<input checked="" type="checkbox"/>
/09/	GIO THANH JOINT STOCK COMPANY	O&M agreement for the project- 20.1.615.GT1/PECC2-POM: Gio Thanh Joint Stock company and Power Construction Consultation Joint Stock company 2	November 2020	<input checked="" type="checkbox"/>
/10/	Vietnam Electricity Corporation	Power Purchase Agreement- Gio Thanh Energy Joint Stock Company and Electricity Corporation Viet Nam- 05/2019/HD-NMDMT-GIO THANH 1	10/05/2019	<input checked="" type="checkbox"/>
/11/	QUANG TRI PROVINCE	EIA Approval Letter- 239/QD-UBND	24/05/2019	<input checked="" type="checkbox"/>
/12/	GIO THANH JOINT STOCK COMPANY	EIA Report	24/04/2019	<input checked="" type="checkbox"/>
/13/	PO	Monthly electricity generation and invoices	2020-2023	<input checked="" type="checkbox"/>
/14/	Central Electricity Testing Company	Calibration Report- Valid until 31/12/2024. Main Meter: 19061775 Backup Meter: 19049961, 19055227, 19050048	08/12/2021 29/11/2022	<input checked="" type="checkbox"/>
/15/	PO	Energy Meter Details	Main Meter: 19061775	<input checked="" type="checkbox"/>

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			Backup Meter: 19049961, 19055227, 19050048	
/16/	HUAWEI SUNPOWER EEMC	Technical specification <ul style="list-style-type: none"> • Inverter • PV Module • Transformer inverter 		<input checked="" type="checkbox"/>
/17/	GIO THANH JOINT STOCK COMPANY	Land Acquisition documents <ul style="list-style-type: none"> - Land Acquisition for construction- 3503/QD-UBND, 2231/QD-UBND - Lease of Land- 3866/QD-UBND 	26/10/2020, 24/07/2019 29/12/2020	<input checked="" type="checkbox"/>
/18/	GIO THANH JOINT STOCK COMPANY	Approval for electricity connection	07/03/2019	<input checked="" type="checkbox"/>
/19/	PO	Waste Handling Agreement: <ul style="list-style-type: none"> -Domestic waste Agreement- 18/2022/HD-TGR - Hazardous Waste Agreement- 139.03-ASTN/HDKT-CTNH/2022 - Groundwater Consumption records - Hazardous and E-waste Monitoring records - Domestic waste monitoring records 	07/01/2022 11/03/2022 2022 September 2023 September 2023	<input checked="" type="checkbox"/>
/20/	PO	LSC Details <ul style="list-style-type: none"> - Attendance - Minutes of community consultation. 	03/04/2019	<input checked="" type="checkbox"/>
/21/	PO	Training Records <ul style="list-style-type: none"> - Rescue and rescue operation - Fire Fighting and Fire Fighting means 	16/12/2021 22/02/2021	<input checked="" type="checkbox"/>
/22/	PO	HR policy and list of employees	2021	<input checked="" type="checkbox"/>
/23/	PO	Declaration Form on double counting	31/03/2023	
/24/	PO	Engineer Certificate and CSR Activities	28/01/2022	<input checked="" type="checkbox"/>
/25/	CC IPL	Audit notes	22/02/2023	<input checked="" type="checkbox"/>
/26/	CC IPL	Contract details- CC IPL & PO	20/12/2022	<input checked="" type="checkbox"/>
/27/		National grid emission factors were published by Department of Climate Change - Ministry of Natural Resources and Environment, Official Letter No.		<input checked="" type="checkbox"/>

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	Ministry of Natural Resources and Environment	263/BDKH-TTBVTOD dated 12 March 2020 http://dcc.gov.vn/van-ban-phap-luat/1081/Nghien-cuu.-xay-dung-he-so-phat-thai-(EF)-cua-luoi-dien-Viet-Nam-nam-2020-(k%C3%A8m-CV-1316/BDKH-TTBVTOD).html	December 2021	
/28/	GIO THANH ENERGY JOINT STOCK COMPANY	Accidents/ incidents records	04/06/2023	<input checked="" type="checkbox"/>
/29/	PO	OHS Records	2022, 2023	<input checked="" type="checkbox"/>
/30/	GIO THANH ENERGY JOINT STOCK COMPANY	Employee Grievance Logbook		<input checked="" type="checkbox"/>
/31/	PO	Conversion Factor	19/07/2023 & 24/04/2018	<input checked="" type="checkbox"/>
/B01/	CDM	CDM Methodology: ACM0002 Grid- connected electricity generation from renewable sources, version 21.0	Version 21.0	<input checked="" type="checkbox"/>
/B02/	GCC	1. GCC Project Standard 2. GCC Verification Standard 3. GCC Program Definition 4. Environmental and Social Safeguards Standard 5. Project Sustainability Standard 6. Clarification no: 01 7. Clarification no:03 8. Non-binding Examples of Bundling	Version 3.1 Version 3.1 Version 3.1 Version 3.0 Version 3.1 Version 1.3 Version 1.0 Version 1.0	<input checked="" type="checkbox"/>
/B03/	GCC	PSF template	Version 4.0	<input checked="" type="checkbox"/>
/B04/	CDM	Methodological tool 07: Tool to calculate the emission factor for an electricity system, version 07	Version 7.0	<input checked="" type="checkbox"/>
/B05/	CDM	Methodological tool 01: Tool for the demonstration and assessment of additionality, version 07.0.0	Version 7.0.0	<input checked="" type="checkbox"/>
/B06/	CDM	Methodological tool 24: Common Practice, version 03.1	Version 03.1	<input checked="" type="checkbox"/>
/B07/	CDM	Methodological tool 27: Investment Analysis, version 12.0	Version 12.0	<input checked="" type="checkbox"/>
/B08/	CDM	Methodological tool 05: Baseline, project and/ or leakage emissions from electricity generation	Version 3.0	<input checked="" type="checkbox"/>
/B09/	Website	CDM website: CDM: CDM-Home (unfccc.int) GS website: Impact Registry The Gold Standard VCS website: Home - Verra		<input checked="" type="checkbox"/>

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

Table 1. CLs from this Project Verification

CL ID	01	Section no.	D.8	Date: 23/02/2023
Description of CL				
<i>Project owner is requested to provide LOA/LON to check the ownership details of the project activity.</i>				
Project Owner's response				Date: 26/06/2023
<i>The LOA document has been provided for the clarification of the ownership details of the project activity.</i>				
Documentation provided by Project Owner				
<i>LOA/LON Document</i>				
GCC Project Verifier assessment				Date: 10/07/2023
<i>Project Owner has provided the LOA and ownership of the project activity is well established. Hence the CL is closed.</i>				
<i>However, In the Appendix 1 of the PSF the name of primary contact person for Gio Thanh Energy Joint Stock Company is not inline with the LOA provided and PO is requested to rectify the spelling for the secondary contact person of Kosher Climate India Private Limited as per the LOA. Hence the CL is open.</i>				
Project Owner's response				Date: 10/08/2023
<i>The said modifications has been made in the PSF in line with the LOA. The revised LOA has been submitted.</i>				
Documentation provided by Project Owner				
<i>Revised LOA</i>				
GCC Project Verifier assessment				Date: 11/08/2023
<i>In the supporting documents submitted by the PO, the revised LOA is not traceable. PO to provide revised LOA. Hence the CL is open.</i>				
Project Owner's response				Date: 27/10/2023
<i>The revised LOA is updated.</i>				
Documentation provided by Project Owner				
<i>Revised LOA</i>				
GCC Project Verifier assessment				Date: 07/11/2023
<i>PO has submitted the revised LOA and found the Appendix 1 of the PSF is inline to the revised LOA. Hence the CL is closed.</i>				
CL ID	02	Section no.	D.2	Date: 23/02/2023
Description of CL				
<i>In the section A.1 of the PSF, Project owner is requested to provide the following:</i>				
<ul style="list-style-type: none"> • <i>Land Purchase agreement</i> • <i>Approval for erection of distribution and transmission line</i> • <i>Estimation of average electricity generation</i> 				
<i>In the section A.3 of the PSF, Project Owner is requested to provide the evidence for the technical specification of all the equipment's installed for the project activity along with the page number.</i>				
Project Owner's response				Date: 26/06/2023

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<ul style="list-style-type: none"> <i>The Land Purchase Agreement has been provided.</i> <i>The details of approval for erection of the distribution and transmission line document has been incorporated in A.1 section of PSF and the document has been annexed.</i> <i>The average electricity generation estimated based on entire crediting period has been updated in Section A.1 of the PSF and in ER sheet.</i> 	
<p><i>Project Owner has provided the evidence/reference for the technical specification of the equipment's installed at the project activity.</i></p>	
<p>Documentation provided by Project Owner</p> <p><i>Land Purchase Agreement Document</i> <i>Erection of distribution and transmission line document</i> <i>Updated ER sheet</i> <i>Updated PSF</i> <i>Technical specification Name plate photographs</i></p>	
<p>GCC Project Verifier assessment</p>	<p>Date: 10/07/2023</p>
<ul style="list-style-type: none"> <i>Land Purchase agreement is provided for the project activity. Hence the CL is closed.</i> <i>PO has provided the erection of distribution and transmission document and also have provided details of approval for erection of the distribution and transmission line document has been incorporated in A.1 section of PSF. This has been cross checked by the GCC Verifier. Hence the CL is closed.</i> <i>PO is requested to provide appropriate reference for the Estimation of average electricity generation. Hence the CL is open.</i> <i>PO has provided only the technical specification of the PV modules. Po is requested to provide the technical specification for all the equipment's like inverters, transformers installed at the project activity. Hence the CL is open.</i> 	
<p>Project Owner's response</p>	<p>Date: 10/08/2023</p>
<p><i>The estimation of average electricity generation is performed using the annual net power generation provided as per government approved Construction Investment Feasibility study report (CIFSR) and annual degradation factor has been sourced from Manufacturer specification. Hence CIFSR and Manufacturer specification are provided as reference.</i></p> <p><i>The technical specifications of all the equipment's like inverters, transformers installed at the project activity has been submitted and technical specifications has been incorporated in section A.3 of PSF.</i></p>	
<p>Documentation provided by Project Owner</p> <p><i>CIFSR and Manufacturer specification</i> <i>Name plate – Technical Specifications</i></p>	
<p>GCC Project Verifier assessment</p>	<p>Date: 11/08/2023</p>
<p><i>PO has submitted CIFSR and Manufacturer specification, but however, the annual generation mentioned in the ER sheet is not inline with the CIFSR page 12. PO is requested to clarify as the value mentioned in CIFSR is 63.598 GWh and in the ER sheet mentioned as 63,581 MWh. CL is open.</i></p> <p><i>PO has provided all the technical specification of the equipment's installed in the project activity. GCC Verifier has cross the details with the PSF and found the PSF is inline to the supporting documents provided by PO. Hence the CL is closed.</i></p>	
<p>Project Owner's response</p>	<p>Date: 27/10/2023</p>
<p><i>The annual generation is made consistent in ER sheet as per CIFSR as 63.598 GWh.</i></p>	

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Documentation provided by Project Owner			
<i>Updated ER Sheet.</i>			
GCC Project Verifier assessment			Date: 07/11/2023
<i>PO has submitted the revised ER sheet. Verifier has cross checked the ER sheet and found that the value of annual generation is inline to the CIFSR. Hence the CL is closed.</i>			
CL ID	03	Section no.	D.3.5
Description of CL			Date: 23/02/2023
<p><i>In the section B.5 of the PSF, Project owner is requested to:</i></p> <ul style="list-style-type: none"> • <i>Establish the start date of project activity as 25/11/2018 as per TOOL 27.</i> • <i>Credible evidence for all input values considered along with precise reference viz. page.no at the time of decision making in compliance with tool 27. Including the Calculation of PLF as per Annex 11 EB 48.</i> • <i>Justification for appropriateness and provide evidence of salvage value.</i> • <i>Credible evidence for consideration of conversion of VND to USD.</i> • <i>Justification for considering only land cost at the salvage value.</i> • <i>Credible justification for consideration of project life cycle.</i> • <i>In the IRR sheet- Depreciation- PO has mentioned the depreciation for equipment as 4.00%. Please Clarify.</i> • <i>Clarify the unit used under the para- Tariff.</i> <p><i>In the IRR sheet, both INR Million and USD Million has been used. Project owner is requested to clarify which is value used throughout the IRR sheet.</i></p>			
Project Owner's response			Date: 26/06/2023

- As per para 10, Investment analysis Tool 27, Version 12.0. The investment decision date of the project is considered on 24/04/2018 which is the date of appraisal of Basic design report dossier (construction investment feasibility report (CIFSR), Basic design report).
- Reliable evidence for all input values along with precise reference viz. page.no at the time of decision making in compliance with tool 27 has been updated in the section B.5 of the PSF. The PLF has been calculated from the net power generation value provided in the Government approved construction investment feasibility report as per Annex 11 EB 48.
- The salvage value has been provided based on the internal assumption basis.
- The conversion of VND to USD has been provided as per the state bank of Vietnam exchange rate published in 24/04/2018 (investment decision date) (https://www.sbv.gov.vn/TyGia/faces/Aiber.jspx?_afLooop=23774188397506023&_afWindowMode=0&_adf.ctrl-state=7bfyp669d_4)
- The salvage value has been updated in section B.5 of the PSF and IRR sheet.
- As per the manufacture Specification, the life time of the project was considered for 25 years. (https://sunpower.maxeon.com/au/sites/default/files/2020-12/sp_mst_P3_UPP_35mm_ds_AU.pdf)
- The depreciation for equipment has been updated in IRR Sheet and PSF.
- The unit mentioned has been rectified under the paragraph of tariff in section B.5 of the PSF.

The Project Owner has updated the IRR spreadsheet and the cost values has been considered as USD Million.

Documentation provided by Project Owner

Updated IRR
Updated PSF

GCC Project Verifier assessment

Date: 11/07/2023

- The investment decision date of the project activity is 24/04/2018 which is the basic design report approval and inline with para 10 of investment analysis. Hence the CL is closed
- PO has provided the page wise reference for the input parameters considered. Also The PLF has been calculated from the net power generation value provided in the Government approved construction investment feasibility report. Hence the CL is closed
- 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. Hence the value is acceptable. Hence the CL is closed.
- As per the provide link it is found that 1USD = 23,787 VND which is not inline with the IRR sheet. Hence the CL is open.
- PO has now considered the project cost in the calculation of salvage value and hence it is acceptable by the GCC Verifier. CL is closed.
- As per the manufacturer specification, the lifetime of the project is considered as 25 years. Hence the CL is closed.
- PO has revised the PSF and the IRR. Hence the CL is closed.
- PO has rectified the unit of the tariff in the revised PSF. Hence the CL is closed.
- PO has updated the IRR in terms of USD Million throughout the sheet. Hence the CL is closed.

Project Owner's response

Date: 10/08/2023

As per the link provided please check for the investment decision date manually under search tab. In addition the Snapshot of conversion factor has been submitted.

Documentation provided by Project Owner

Snapshot of conversion factor

GCC Project Verifier assessment

Date: 11/08/2023

PO has submitted a snapshot of conversion factor which is issued on 24/04/2018 and found the value is inline to IRR sheet and hence the CL is closed.

Additional CL:

In the section B.5 of the revised PSF:

- PO is requested to incorporate the sensitivity analysis along with variation in the form of table. CL is open.
- In page no: 46 of the PSF, it is observed that the project cost is mentioned as 49.62 USD Million however in the same PSF in the page no: 51 it is mentioned as 49.17 Mn USD. PO is requested to clarify. CL is open.
- PO has considered zero years for the input parameter "Moratorium". PO is requested to provide evidence for this parameter. CL is open.
- In the IRR sheet, it is found that the salvage value is added at the end of 25 years. The maximum time of depreciation is considered as 15 years. PO is requested to clarify why the salvage value is not added at the end of 15 years. CL is open.

Project Owner's response		Date: 27/10/2023
<p>1) Sensitivity analysis table is incorporated in the section B.5.</p> <p>2) PSF is updated with the single project cost i.e. 49.62 USD Million.</p> <p>3) Moratorium is considered as 1 year on an assumption basis and the required changes has been made throughout the PSF and in IRR sheet</p> <p>4) As per the Circular No.: 45/2013/TT-BTC dated 25/04/2015, Guiding Regulation on Management, Use And Depreciation Of Fixed Assets, the maximum time of depreciation is considered as 15 years. Even though the depreciation timeframe is 15 years, the lifetime of the project is 25 years. Hence, the salvage value is considered at the end of project lifetime i.e. 25th year as per the standard procedure.</p>		
Documentation provided by Project Owner		
Updated PSF & IRR sheet		
GCC Project Verifier assessment		Date: 07/11/2023
<p>In the section B.5 of the revised PSF:</p> <ul style="list-style-type: none"> PO has incorporated the sensitivity analysis along with variation in the form of table and is in line to the IRR sheet. CL is closed. PO has revised to project cost to 49.62 USD Million throughout the PSF which is inline to the CIFSR. Hence the CL is closed. PO has considered as Moratorium based on assumption basis and hence the CL is closed. As per the Circular No.: 45/2013/TT-BTC dated 25/04/2015, the depreciation timeframe is 15 years, the lifetime of the project is 25 years. Hence PO has considered the salvage value at the end of project lifetime. CL is closed. 		

CL ID	04	Section no.	D.3.7	Date: 23/02/2023
Description of CL				
<p>In section B.7.1 of the PSF, Project Owner is requested to provide reference for all the monitoring parameters considered including all E+, S+ and SDGs.</p> <p>Moreover, in the section B.7.4 of the PSF, Project Owner is requested to provide evidence/ reference for the Monthly report, Calibration certificate of meters, records of meter, joint balance sheet, copy of invoices, O&M contract.</p>				
Project Owner's response				Date: 26/06/2023
<p>In section B.7.1 of the PSF, reference has been provided for all the monitoring parameters for E+, S+ and SDGs.</p> <p>The evidence/reference such as the monthly report, calibration certificate of the meter, joint balance sheet, copy of invoices, O&M contract in line with the section B.7.1 of the PSF has been provided.</p>				
Documentation provided by Project Owner				

<p>Monthly Generation Employees Payroll Solid, Hazardous & E-waste Management HR Policy Training Records Monthly Report Records of Meter Calibration Certificate of the Meter Copy of Invoices O&M Contract</p>				
GCC Project Verifier assessment				Date: 10/07/2023
<p>In the section B.7.1 of the PSF, PO has provided reference for monitoring parameters. Hence the CL is closed.</p> <p>In the section B.7.4 of the PSF, PO has provided the monthly report, calibration certificate of the meter, joint balance sheet, copy of invoices, O&M contract. But however, the PO is requested to submit the 2022 calibration records for the backup meters. Hence the CL is open.</p>				
Project Owner's response				Date: 10/08/2023
<p>The energy meters are calibrated as per the frequency of meter calibration of 36 months in compliance with Circular No. 23/2013/Ti-BKHCN dated 26/09/2013 of The Minister of Science and Technology, Regulations on Measurement for Group 2 Measurements. However, the main meters have been calibrated yearly once and Main meter reading will be considered for the monthly energy accounting and billing purpose. Hence calibration for back up meters was not performed for the year 2022.</p>				
Documentation provided by Project Owner				
Updated PSF				
GCC Project Verifier assessment				Date: 11/08/2023
<p>PO is requested to submit the bills for June/July 2023 to confirm that the reading is taken only from the main meter until the project verification is complete. Hence the CL is open.</p>				
Project Owner's response				Date: 27/10/2023
Latest Bills and JMR reports have been submitted				
Documentation provided by Project Owner				
Monthly Generation bills. JMR reports				
GCC Project Verifier assessment				Date: 07/11/2023
<p>PO has submitted the bills of 2023 and it is confirmed that the readings are taken only from the main meter until the project verification is complete. Hence the CL is closed.</p>				
CL ID	05	Section no.	D.5	Date: 23/02/2023
Description of CL				
The section D.2 of the PSF, Project Owner is requested to provide EIA approval letter				
Project Owner's response				Date: 26/06/2023
The EIA approval letter has been provided in line with the section D.2 of the PSF.				
Documentation provided by Project Owner				
EIA Approval Letter.				
GCC Project Verifier assessment				Date: 10/07/2023
<p>In the supporting documents submitted by the PO, GCC Verifier is not able to trace the EIA approval letter. Hence the CL is open.</p>				
Project Owner's response				Date: 21/07/2023
The EIA approval letter has been submitted.				
Documentation provided by Project Owner				
EIA approval letter				
GCC Project Verifier assessment				Date: 11/08/2023
<p>PO has submitted the EIA approval letter to the GCC Verifier. GCC Verifier has cross checked the evidence and hence the CL is closed.</p>				

Project Verification Report

CL ID	06	Section no.	D.12	Date: 23/02/2023
Description of CL				
<i>In the section F of the PSF, Project owner is requested to provide appropriate justification for consideration of the SDG-9 parameter.</i>				
Project Owner's response				Date: 26/06/2023
<i>This project activity doesn't contribute to the SDGs Goal 9. Hence, the SDGs Goal 9 has been removed.</i>				
Documentation provided by Project Owner				
<i>Updated PSF.</i>				
GCC Project Verifier assessment				Date: 10/07/2023
<i>PO has removed the claim of SDG-9 from the section F of the PSF. Hence the CL is closed.</i>				

CL ID	07	Section no.	D.6	Date: 23/02/2023
Description of CL				
<i>In section G.1 of PSF, Project owner is requested to provide evidence for conducting LSC including invitation letter to the stakeholders, Photographic/videographic evidence.</i>				
Project Owner's response				Date: 26/06/2023
<i>The evidence for conducting LSC to the stakeholders has been provided such as Attendance sheet and minutes of meeting which has been incorporated in the section G.1 of the PSF and annexed.</i>				
Documentation provided by Project Owner				
<i>Updated PSF</i>				
GCC Project Verifier assessment				Date: 10/07/2023
<i>PO has submitted the attendance sheet and MoM of the meeting conducted for the project activity. But however, PO is requested to provide the invitation letter to the stakeholders.</i>				
<i>Also, the date of LSC mentioned in the PSF is not in line with the LSC records submitted. Hence the CL is open.</i>				
Project Owner's response				Date: 21/07/2023
<i>The LSC date has been updated in line with the LSC records.</i>				
Documentation provided by Project Owner				
<i>Updated PSF</i>				
GCC Project Verifier assessment				Date: 11/08/2023
<i>PO has updated the PSF inline to the LSC records which has been cross verified by the GCC Verifier. Hence the CL is closed.</i>				

CL ID	08	Section no.	D.10/D.11/D.12	Date: 10/07/2023
Description of CL				
<i>In the section E.1 of the PSF, PO is requested to provide credible evidence for the following as per the monitoring frequency since the parameters are scored +1:</i>				
<ul style="list-style-type: none"> • Solid waste pollution from Hazardous waste • Solid waste pollution from E- waste • Solid waste pollution from batteries • Solid waste Pollution from end-of-life products/ equipment 				
<i>In the section E.2 of the PSF, PO is requested to provide credible evidence for the following as per the monitoring frequency since the parameters are scored +1:</i>				
<ul style="list-style-type: none"> • Avoiding discrimination action • Occupational Health Hazards 				

- Reducing/ increasing accidents
- Specialized trainings

Project Owner's response

Date: 21/07/2023

As per section E.1 of the PSF,

The hazardous waste and domestic waste management agreements have been submitted.

In Viet Nam there is no regulation for E-waste management discretely hence The management of e-waste has been carried out under hazardous waste framework in line with Circular No.36/2015/TT-BTNMT dated 30 June 2015 of MONRE on Management of Hazardous Waste (http://vepg.vn/wp-content/uploads/2020/07/36_2015_TT-BTNMT_EN.pdf).

The Solid waste pollution from batteries will be treated under the hazardous waste management for which the hazardous waste management agreement has been submitted.

The waste from end-of-life products will be monitored at the end of life of equipment and treated under hazardous waste management framework.

As per section E.2 of the PSF,

For avoiding discrimination action, labor disciplinary regulation document has been provided.

To account for occupational health hazards and reducing/increasing accidents, the training records for fire prevention and rescue operations, electrical safety training records have been submitted and medical check-up records and incident/ accident register will be submitted during verification process.

The specialized training records has been submitted.

Documentation provided by Project Owner

*Hazardous waste and domestic waste management agreements
Labor disciplinary regulation*

GCC Project Verifier assessment

Date: 11/08/2023

In the section E.1 of the PSF:

- *Solid waste pollution from Hazardous waste: PO has submitted only Hazardous waste management plan. PO is requested to submit samples that the generation is being monitored monthly as described in section B.7.2 of the PSF. CL is open.*
- *Solid waste pollution from E-wastes: PO is requested to submit samples that the generation is being monitored continuously as described in section B.7.2 of the PSF. CL is open.*
- *Solid waste pollution from Batteries: PO is requested to submit samples that the generation is being monitored monthly as described in section B.7.2 of the PSF. CL is open.*
- *Solid waste pollution from end-of-life products/ equipment: PO is requested to submit samples that the generation is being monitored continuously as described in section B.7.2 of the PSF. CL is open.*

Additional CL:

- *Waster consumption on from ground and other sources: PO has mentioned that they have obtained license to use of groundwater as per local regulation. PO is requested to submit the evidence. CL is open.*

<ul style="list-style-type: none"> - <i>Generation of wastewater: PO is requested to submit appropriate evidence for the discharge of wastewater to the drainage system. CL is open.</i> <p><i>In the section E.2 of the PSF:</i></p> <ul style="list-style-type: none"> - <i>PO has provided training records for the monitoring of the parameter Occupational Health Hazards, Reducing/ increasing accidents, Specialized trainings and submitted HR policy for the parameter Avoiding discrimination action. Hence the CL is closed.</i> <p>Additional CL:</p> <ul style="list-style-type: none"> - <i>As mentioned in the section E.2 of the PSF under the parameter “Community and rural welfare”, PO is requested to submit the records of community development activities as mentioned in the PSF. CL is open.</i>
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Project Owner’s response	Date: 27/10/2023
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<ul style="list-style-type: none"> - <i>The hazardous waste, E-waste including end-of-life products/ equipment and Battery waste monitoring sample report has been submitted.</i> - <i>The ground water consumption record has been submitted and the section E.1 has been updated accordingly.</i> - <i>The main source of waste water generation is from the cleaning of PV modules which is being monitored in the parameter, Water Consumption from ground and other sources (EW02) and the evidence has been submitted. Hence the parameter Generation of wastewater (EW03) is not addressed and claimed as 'not applicable'</i> - <i>The Records for the community development activities has already been submitted.</i>

Documentation provided by Project Owner
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Monitoring records - hazardous waste, E-waste including end-of-life products/ equipment and Battery waste. Ground water consumption records

GCC Project Verifier assessment	Date: 07/11/2023
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<p><i>In the section E.1 of the revised PSF:</i></p> <ul style="list-style-type: none"> • <i>PO has submitted monitoring sample reports for the parameters: Hazardous waste, E-waste, Batteries and End-of-life of equipment and it has been cross checked by the verifier. Hence the CL is closed.</i> • <i>PO has submitted the records of groundwater consumption and has revised the section E.1 inline to it. Hence the CL is closed</i> • <i>PO has revised the scoring for the parameter Generation of wastewater to not applicable. Hence the CL is closed.</i> • <i>PO has submitted the records of community development activities and hence the CL is closed.</i>

CL ID	9	Section no.	D.8	Date: 10/07/2023
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Description of CL

PO is requested to provide VAT registration/ incorporation certificate.

Project Owner’s response	Date: 11/07/2023
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The incorporation certificate has been submitted

Documentation provided by Project Owner	
<i>Incorporation certificate</i>	
GCC Project Verifier assessment	Date: 11/08/2023
<i>PO has submitted incorporation certificate to the GCC Verifier. Hence the CL is closed.</i>	

Table 2. CARs from this Project Verification

CAR ID	01	Section no.	D.2	Date: 23/02/2023
Description of CAR				
<i>As per para 11 of the PSF Template filling form, Project Owner is requested to provide all the supporting documents in English.</i>				
Project Owner's response				Date: 26/06/2023
<i>The translation of entire documents is complicated due to the large file size of the supporting documents. The B.5 section has been provided with Page numbers for all the parameters in line with corresponding documents for simple reference.</i>				
Documentation provided by Project Owner				
GCC Project Verifier assessment				Date: 11/07/2023
<i>PO has provided page number for all the parameters with the corresponding documents to cross check the details of project activity. Hence the CAR is closed.</i>				

CAR ID	02	Section no.	D.3.1	Date: 23/02/2023
Description of CAR				
<i>Project Owner is requested to use the latest version of the methodology and TOOL 27 available in the CDM website throughout the PSF.</i>				
<i>In the section B.2 of the PSF, Project Owner is requested to mention all the applicability condition of the latest methodology version 21.0.</i>				
<i>In the section B.5 of the PSF, under sub-step 1a the para mentioned is inconsistent with the latest version of methodology.</i>				
<i>In the section B.6 of the PSF, the para mentioned under Emission reduction, Baseline emission and Project emission is inconsistent with the latest version of the methodology.</i>				
Project Owner's response				Date: 26/06/2023
<i>The latest version of the Methodology ACM0002 version 21.0 and Tool 27 version 12.0, has been applied consistently throughout the PSF.</i>				
<i>All the applicability condition of the latest methodology version 21.0 has been provided in the section B.2 of the PSF.</i>				
<i>The correction has been made under sub-step 1a of the para which is consistent with latest version of methodology ACM0002 version 21.0.</i>				
<i>In the section B.6 of the PSF, para mention under the Emission reduction, Baseline Emission and Project Emission has been updated in accordance to the latest methodology of ACM0002 version 21.0</i>				
Documentation provided by Project Owner				
<i>Updated PSF.</i>				

GCC Project Verifier assessment	Date: 11/07/2023
<p><i>PO has used the latest version of the ACM002 methodology and TOOL 27 as per the latest version available in the CDM website. This has been cross checked by the GCC Verifier. Hence the CAR is closed.</i></p> <p><i>In the section B.2 of the revised PSF, Po has incorporated all the applicability condition of the latest methodology version 21.0. Hence the CAR is closed.</i></p> <p><i>In the section B.5 of the revised PSF, PO has revised the para mentioned under sub-step 1a. Hence the CAR is closed.</i></p> <p><i>In the section B.6 of the revised PSF, Po has revised the para mentioned under the Emission reduction, Baseline Emission and Project Emission has been updated in accordance to the latest methodology of ACM002 version 21.0. Hence the CAR is closed.</i></p>	

CAR ID	03	Section no.	D.2	Date: 23/02/2023
Description of CAR				
<p><i>The section A.3 of the PSF is not in line with para 6 and 8 of the PSF filling template. Project Owner is requested to provide the details as per the template filling form.</i></p>				
Project Owner's response				Date: 26/06/2023
<p><i>The section A.3 of the PSF has been updated accordingly in line to the PSF filling template para 6 and 8.</i></p>				
Documentation provided by Project Owner				
<p><i>Updated PSF.</i></p>				
GCC Project Verifier assessment				Date: 11/07/2023
<p><i>Po has updated the section A.3 of the revised PSF as per para 6 and 8 of the PSF template filling form. This has been cross checked by the GCC Verifier. Hence the CAR is closed.</i></p>				

CAR ID	04	Section no.	D.14	Date: 23/02/2023
Description of CAR				
<p><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></p>				
Project Owner's response				Date: 26/06/2023
<p><i>The reference for the CORSIA emission unit eligibility criteria requirement has been updated in the section A.6 of the PSF.</i></p>				
Documentation provided by Project Owner				
<p><i>Updated PSF</i></p>				
GCC Project Verifier assessment				Date: 11/07/2023
<p><i>PO has updated the section A.6 of the PSF. Hence the CAR is closed.</i></p>				

CAR ID	05	Section no.	D.3.1	Date: 23/02/2023
Description of CAR				
<p><i>In the section B.1 of the PSF, Project Owner is requested to provide the TOOL number along with the complete description of the tool.</i></p> <p><i>In the section B.2 of the PSF, the applicability criteria are not in line with the applied methodology (ACM0002 v. 21.0) and TOOL 7.</i></p>				
Project Owner's response				Date: 26/06/2023
<p><i>In section B.1 of the PSF, the tool number has been provided along with the complete description of the tool.</i></p> <p><i>The applicability criteria have been updated in line with the applied methodology ACM0002 version 21.0 and tool 7 Version 7.0 in section B.2 of the PSF.</i></p>				
Documentation provided by Project Owner				
<p><i>Updated PSF.</i></p>				

GCC Project Verifier assessment	Date: 11/07/2023
<i>In the section B.1 of the revised PSF, PO has provided the complete description of the TOOL along with the TOOL number and version number. Hence the CAR is closed.</i>	
<i>PO has updated the applicability criteria of the methodology and TOOL 07 in the section B.2 of the revised PSF. Hence the CAR is closed.</i>	

CAR ID	06	Section no.	D.3.5	Date: 23/02/2023
Description of CAR				
<i>In the Section B.5 of the PSF:</i>				
<ul style="list-style-type: none"> <i>The reference mentioned for the Debt Repayment Tenure and Moratorium is erroneous.</i> <i>Under benchmark estimation, the value of benchmark is inconsistent with the latest version of the TOOL 27.</i> 				
Project Owner's response				Date: 26/06/2023
<ul style="list-style-type: none"> <i>In the section B.5 of the PSF, the reference has been mentioned as per CIFSR for the Debt and Repayment Tenure and Moratorium.</i> <i>The benchmark value has been updated in line with the latest version of the tool 27 version 12.0</i> 				
Documentation provided by Project Owner				
<i>Updated PSF.</i>				
<i>Updated IRR.</i>				

GCC Project Verifier assessment	Date: 11/07/2023
<i>In the section B.5 of the revised PSF:</i>	
<ul style="list-style-type: none"> <i>PO has updated the reference for the Debt Repayment Tenure and Moratorium</i> <i>The benchmark estimation is now in line with the latest version of TOOL 27 available in the CDM website. Hence the CAR is closed.</i> 	

CAR ID	07	Section no.	D.3.6	Date: 23/02/2023
Description of CAR				
<i>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.</i>				
Project Owner's response				Date: 26/06/2023
<i>The value of $EF_{grid,CM,y}$ has been rectified in baseline emission calculation in section B.6.3 of the PSF.</i>				
Documentation provided by Project Owner				
<i>Updated PSF.</i>				
GCC Project Verifier assessment				Date: 11/07/2023
<i>PO has rectified the value of $EF_{grid,CM,y}$ has been rectified in baseline emission calculation in section B.6.3 of the revised PSF. Hence the CAR is closed.</i>				

CAR ID	08	Section no.	D.3.7	Date: 23/02/2023
Description of CAR				
<i>In the section B.7.1 of the PSF, Project Owner is requested to provide details of the meters for each table.</i>				
<i>In the section B.7.4 of the PSF, Project owner is requested to mention the location of energy meters as a schematic diagram.</i>				
Project Owner's response				Date: 26/06/2023
<i>In section B.7.1 of the PSF, details of the main meter and backup meters for each table has been provided.</i>				
<i>The location of the energy meters has been updated in a schematic diagram in the section B.7.4 of the PSF.</i>				

Documentation provided by Project Owner	
<i>Updated PSF.</i>	
GCC Project Verifier assessment	Date: 11/07/2023
<i>PO has provided the details of meters in the section B.7.1 of the revised PSF. Hence the CAR is closed.</i>	
<i>PO has provided the location of the energy meter in a schematic diagram in the section B.7.4 of the revised PSF. Hence the CAR is closed.</i>	

CAR ID	09	Section no.	D.2	Date: 23/02/2023
Description of CAR				
<i>Project owner is requested to fill all the Appendix as per the PSF filling template and provide appropriate information in the appendix of the PSF.</i>				
Project Owner's response				Date: 26/06/2023
<i>The Project Owner has updated the Appendix section as per the PSF filling template and provided appropriate information in the appendix of the PSF.</i>				
Documentation provided by Project Owner				
<i>Updated PSF.</i>				
GCC Project Verifier assessment				Date: 11/07/2023
<i>PO has updated the appendix section as per PSF template filling and provided all the appropriate information. Hence the CAR is closed.</i>				

CAR ID	10 (Additional)	Section no.	D.10/D.11	Date: 11/08/2023
Description of CAR				
<i>In the section E.2 of the PSF:</i>				
<ul style="list-style-type: none"> - <i>PO has mentioned Project- related knowledge dissemination effective or not in the section B.7.1 but in the section E.2 of the PSF it is mentioned as NA. Please rectify. CAR is open.</i> - <i>Sanitation and waste management is scored as +1 in section E.2 of the PSF, but not included in section B.7.1 of the PSF. Please rectify and provide credible evidence for the parameter. CAR is open.</i> - <i>Under the parameter "Reduced/ Increased traffic congestion", PO has mentioned as Not applicable, however scoring 0. Please rectify. CAR is open.</i> - <i>PO is requested to mentioned NA / hyphen for the parameters not scored instead of mentioning as Not Applicable, as in the Do-No- Risk Assessment there might be chances to mention as Not Applicable. CAR is open.</i> 				
Project Owner's response				Date: 27/10/2023

<ul style="list-style-type: none"> - <i>Project- related knowledge dissemination effective or not is removed from the section B.7.1 as it not applicable.</i> - <i>Sanitation and waste management is scored as +1 in section E.2 of the PSF and included in the section B.7.2 as per “Environmental and Social Safeguard Standard” version 3.0 and the evidence has been submitted.</i> - <i>The scoring for the parameter Reduced/ Increased traffic congestion is updated as Not Applicable in the PSF.</i> - <i>As per para 22 (f) of “Environmental and Social Safeguard Standard” version 3.0, the parameters that cannot be described, quantified, measured and monitored or demonstrated during the entire monitoring period in comparison to the scenario in absence of the project or the pre-project scenario should be marked as “Not Applicable”. Hence the same has been incorporated.</i>
Documentation provided by Project Owner
<i>Updated PSF Monitoring records – Domestic & Hazardous waste</i>
GCC Project Verifier assessment Date: 07/11/2023
<p><i>In the section E.2 of the revised PSF:</i></p> <ul style="list-style-type: none"> • <i>PO has removed the parameter project- related knowledge dissemination effective or not from the section B.7.1 of the PSF. Hence the CAR is closed.</i> • <i>PO has scored +1 of the parameter in section E.2 of the PSF and has include the same in the section B.7.2 of the PSF. Also, PO has submitted the credible evidence for the monitoring of this parameter. Hence the CAR is closed.</i> • <i>PO has revised the scoring for the parameter Reduced/ Increased traffic congestion to not applicable. Hence the CAR is closed.</i> • <i>PO has mentioned Not Applicable as per the para 22 (f) of “Environmental and Social Safeguard Standard” version 3.0, for the parameters that cannot be described, quantified, measured and monitored or demonstrated during the entire monitoring period in comparison to the scenario in absence of the project or the pre-project scenario. Hence the CAR is closed.</i>

Table 3. FARs from this Project Verification

FAR ID	01	Section no.	D.13	Date: 23/02/2023
Description of FAR				
<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>				
Project Owner’s response				Date: DD/MM/YYYY
Documentation provided by Project Owner				
GCC Project Verifier assessment				Date: DD/MM/YYYY

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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	
		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 rd Party Audit
				Not Applicable	Harmless	Harmful	Operational Controls	Program of Risk Management Actions	Monitoring parameter frequency monitoring and of	Ex- Ante scoring of the environmental impact (as per scoring matrix Appendix-02)			
<p>Environmental Aspects on the identified categories⁴⁵ indicated below.</p>	<p>Indicators for environmental impacts</p>	<p>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, within and outside the project boundary, over which the Project Owner(s) has/have control.</p>	<p>Describe the applicable national regulatory requirements /legal limits / voluntary corporate limits related to the identified risks of environmental impacts.</p>	<p>If no environmental impacts are anticipated, then the Project Activity is unlikely to cause any harm (is safe) and shall be indicated as Not Applicable</p>	<p>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 limits by way of</p>	<p>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,</p>	<p>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 level that is in compliance with applicable legal/regulat</p>	<p>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 adopted to reduce or eliminate the risk of impacts that have been identified as Harmful.</p>	<p>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.</p>	<p>-1 0 +1</p>	<p>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.</p>	<p>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 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</p>	

⁴⁵ 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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					plant design and operating principles, then the Project Activity is unlikely to cause any harm (is safe) and shall be indicated as Harmless /If the project has an positive impact on the environment mark it as "harmless" as well.	then the Project Activity is likely to cause harm (may be un-safe) and shall be indicated as Harmful	or requirements or industry best practice or stricter voluntary corporate requirements					baseline alternative.
Reference to paragraphs of Environmental and Social Safeguards Standard		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)
Environment - Air	SO _x 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 _x 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 ₂ emissions (EA03)	The project is expected to reduce CO ₂ emissions wrt 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 ₂ /year). This parameter is calculated from the quantity of net electricity generated and	+1	The overall impact is positive with respect to the baseline and hence the impact is harmless.	The project activity being renewable power generation avoids CO ₂ emissions that would have occurred in baseline scenario due to the electricity generation in

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									<p>supplied to the grid multiplied by the combined margin emission factor sourced from the Legislation Research and develop emission factor (EF) of Viet Nam's electricity grid in 2020.</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>Since the impact is being monitored to demonstrate the positive impact over the lifetime, it is a score as +1</p>	<p>thermal power plants. The impacts is being monitored through parameter 'CO₂ 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	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	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	Not Applicable
Non-Methane Volatile Organic Compounds (NMVOCs) (EA07)	Not Applicable	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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	Odor (EA08)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Noise Pollution (EA09)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Others (EA10)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Add more rows if required and corresponding notation with EA as prefix)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Environment - Land	Solid waste Pollution from Plastics (EL-01)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Solid waste Pollution from Hazardous wastes(EL 02)	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 30 June 2015 of MONRE on Management of Hazardous Waste. ⁴⁶ Legal Limit: Less than 600 Kgs/year	Not Applicable	All kinds of the solid wastes during the project activity will be collected, sorted, stored and disposed to the licensed vendor as per the regulation pertaining to the respective	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	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. Since the impact of parameter is within the regulatory limits	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. An appropriate monitoring plan has been put in

⁴⁶ http://vepg.vn/wp-content/uploads/2020/07/36_2015_TT-BTNMT_EN.pdf

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					hazardous waste management. Hence the impact is deemed harmless				1. Quantity of waste generated 2. Quantity of waste disposed 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		and is being measured and monitored to demonstrate the impact is harmless this parameter is scored as +1	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 monitored and mitigation measures to be	Circular No.36/2015/TT-BTNMT dated 28/09/2015 ⁴⁷ of MONRE on Management of Hazardous Waste. Legal Limit: Less than 600 Kgs/year	Not Applicable	All kinds of the E-wastes generated during life time of the project activity will be collected, sorted, stored and disposed to the authorized vendor for the recycling or to dump at	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-	+1	All kinds of the E-wastes generated during the project activity will be collected, sorted 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.	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	

⁴⁷ <https://faolex.fao.org/docs/pdf/vie168554.pdf>

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	implemented to mitigate the impact.			the legacy MSW sites as per the regulation pertaining to the respective E-waste management rules				waste disposed 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		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.	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 ⁴⁸ 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 generated power. However, there are few batteries are used to start the inverters and for the standby power to the computers used in the project office at the site. At the end of lifetime, the batteries will be handed over to the recycler or manufacturer	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 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.

⁴⁸ <https://faolex.fao.org/docs/pdf/vie168554.pdf>

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					er to replace with new batteries. Old batteries will not be disposed to the open landfill. Hence the impact is harmless							
<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 ⁴⁹ of the Government on management of waste and discarded materials.	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 lifetime of the transformer. project owner will dispose the recyclable material to the	Not Applicable	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. Please refer the section B.7.2 above for detailed monitoring plan.	+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 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.

⁴⁹ <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>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>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	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> <p>The necessary conversion approvals are obtained and are in place</p>	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>The land for the project activity is a leased land /17/. 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 /17/ and found appropriate and confirms that the land is not suitable for cultivation and has been taken for development of</p>

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													<p>Solar Power Project. It is also confirmed from the interview with the stakeholder during on site visit /25/.</p> <p>Hence, GCC verifier concludes that the parameters is harmless and scored appropriately.</p>
	Others (EL09)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Add more rows if required	Not Applicable	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	Not Applicable
	Water Consumption from ground and other sources (EW02)	<p>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 requirement for domestic usage</p>	<p>Decree No: 02/2023/N D-CP Dated 01/02/2023 – The Water Resource Law⁵⁰</p> <p>Legal Limit:</p> <p>Surface water exploitation: Less than 50000 m3/day and night</p>	<p>Not Applicable</p>	<p>Harmless</p> <p>Ground water will be consumed for the cleaning and domestic needs.</p> <p>Project is not located in the residential or rural area hence there is no impact on the existing usage pattern.</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Project O&M team will monitor the quantity of water consumed for cleaning of modules per cleaning cycle.</p> <p>Monitoring parameter is Quantity of water consumed (Liters/year).</p> <p>Parameter will be monitored and data will be recorded in the plant logbooks.</p> <p>Please refer to the section B.7.2 for more details on monitoring</p>	<p>+1</p>	<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 consumption is comparatively higher for thermal power projects. Since the impact i.e quantity of water saved is not being monitored this parameter is scored as "+1"</p>	<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 cross checked the same from water consumption records /19/ and during site visit /25/. PO has considered +1 for this parameter,</p>	

⁵⁰ <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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			Ground Water Usage: 12000 m3/day and night									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 pollutants / toxic waste (EW06)</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 (EW07)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Add more rows if required</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	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Environment – Natural	<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

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Resources	<i>Protecting/enhancing plant life (ENR02)</i>	The project activity is being developed in a non-crop/ non-forest land. Hence, there is no impact on plant life.	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>	The project activity is being developed in a non-crop/ non-forest land and implemented in ways that avoids impacts on plant life, contribute to biodiversity, and support local ecosystems Hence, there is no impact on species diversity.	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
	<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	+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	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

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									the energy meters installed at the substation. Energy Generation reports will be provided for the verification of generation.		during the project lifetime, the parameter is scored as +1	monthly generation and invoices report /13/. The same is confirmed during the onsite visit /25/. Evaluation found Harmless. The same is acceptable to the GCC project verification team. 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	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	Not Applicable
<i>Add more rows if required</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
Net Score: +7												
Project Owner's Conclusion in PSF: The Project Owner confirms that the Project Activity will not cause any net harm to the environment.												
GCC Project Verifier's Opinion: 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 rd Party Audit
				Not Applicable	Harmless	Harmful					
Social Aspects on the identified categories⁵¹ indicated below.	<i>Indicators for social impacts</i>	<i>Describe and identify actual and anticipated impacts on society and stakeholders, both positive or negative, from all source 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 Not Applicable</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</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</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 risk of impacts that have been identified as Harmful.</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 or qualitative in nature</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</i>

⁵¹ 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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					<i>unlikely to cause any harm (is safe) and shall be indicated as Harmless, project having positive impact on society wrt. To the BAU / baseline scenario must also mark their aspect as “harmless”</i>	<i>Activity is likely to cause harm and shall be indicated as Harmful</i>		<i>along with the data source</i>			<i>mitigate the risks of negative social impacts to levels that are unlikely to cause any harm. Also describe the positive impacts of the project on the society as compared to the baseline alternative or BAU scenario.</i>
Reference to paragraphs of Environmental and Social Safeguards Standard		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)
Social - Jobs	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/QH14 dated 20/11/2019 ⁵² New Legal Policy - Compulsory social insurance, unemployment insurance, and health insurance contributions for Vietnamese workers ⁵³	Not Applicable	Harmless As the impact is positive in nature	Not Applicable	Not Applicable	Project creates new employment and generates income for around 15 no of people during the project lifetime. The number of people employed by the project activity will be monitored through checking employee records or the Pension contribution acknowledgement 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	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 /22/ and during the on-site audit/25/ and by interviews and it was accepted by the GCC Verification team that appropriate monitoring plan is going to be implemented.

⁵²

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

⁵³ <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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										will be scored.	
<i>New short-term jobs (< 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	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	Not Applicable

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	<p><i>Avoiding discrimination when hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities (SJ04)</i></p> <p><i>(human rights)</i></p>	<p>Project Owner establishes the policy to ensure that there is no discrimination based on gender, racism, religion etc. during the recruitment process.</p>	<p>Labor regulation on non-discrimination.</p>	<p>Not Applicable</p>	<p>Harmless</p> <p>Project Owner establishes the policy to ensure that there is no discrimination based on gender, racism, religion etc. during the recruitment process.</p> <p>Grievance redressal committee will be formed to address any complaints/ grievance received on discrimination practices</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Monitoring parameters.</p> <p>1.Labor regulation on non-discrimination practices.</p> <p>2.Number of complaints received on discrimination practices.</p> <p>The data will be monitored on continuous basis, and recorded annually.</p> <p>Please refer to section B.7.2 for more details.</p>	<p>+1</p>	<p>Project owner strictly avoid any discrimination on practices while hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities.</p> <p>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.</p>	<p>the Labour Policy for Recruitment and Onboarding /22/. The Labour policy states that the recruitment process of the company follows the commitment to equality, diversity and inclusion.</p> <p>GCC Verifier has seen and verified the company level labour 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.</p>
<p>Social - Health & Safety</p>	<p><i>Disease prevention (SHS01)</i></p>	<p>There is no scope for disease prevention since it is a solar power plant generating and supplying electricity from renewable source through the grid.</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>

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<p><i>Occupational health hazards (SHS02)</i></p>	<p>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.</p> <p>Therefore, it is not applicable.</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>
<p><i>Reducing / increasing accidents/Incidents/fatality (SHS03)</i></p>	<p>There is a possibility of accidents/incidents/near miss in project sites due to human intervention or technical failure or emergency.</p>	<p>In compliance to the Law on OSH policy- - Law No.84/2015/QH13 - Law on Occupational Safety And Health⁵⁴</p>	<p>Not Applicable</p>	<p>Harmless</p> <p>By following OSH policy guidelines, and imparting periodic trainings and providing PPE kits to employees and visitors</p>	<p>Not Applicable</p>	<p>Following OSH Guidelines as follows</p> <p>Imparting Trainings,</p> <p>Keeping Sign boards</p> <p>Providing PPE Kits.</p>	<p>Project Owner monitors the following parameters.</p> <p>1.Number of accidents/ incidents reported.</p> <p>This parameter will be continuously monitored and accidents/incident registers will be maintained on annual basis.</p> <p>Please refer to section B.7.2 for more details.</p>	<p>+1</p>	<p>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.</p> <p>Since the parameter is having the impact on the employees this parameter is being considered for monitoring to demonstrate that impact is</p>	<p>PO has well onsite established OSH records /29/ and training records. /28/,/21/ 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 guideline⁵⁵ provided by the PO and confirmed that there is a well-established safety procedure available at site. PO has considered +1</p>

⁵⁴ <http://www.ilo.org/dyn/natlex/docs/MONOGRAPH/99774/119205/F-595449136/VNM99774.pdf>

⁵⁵ <http://www.ilo.org/dyn/natlex/docs/MONOGRAPH/99774/119205/F-595449136/VNM99774.pdf>

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										neutral during the project operational period. Therefore this parameter will be scored +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
	<i>Reducing / increasing food wastage (SHS05)</i>	There is no scope for Reducing / increasing food wastage since it is a solar power plant generating and supplying electricity through the grid. Hence it is 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
	<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
	<i>Sanitation and waste management (SHS08)</i>	Project will generate domestic waste during construction and operation of the project.	Decree No. 08/2022/ND-CP ⁵⁶ dated 10/01/2022-Elaboration of several articles of the law on environmental protection	Not Applicable	Harmless The project will have proper sanitation facilities (during construction portable toilets, during	Not Applicable	Not Applicable	Disposal records related to garbage collection, industrial/hazardous waste management and disposal as mentioned in EL02, EL04, EL06 will be maintained at the	+1	Management will ensure proper disposal of sanitary and domestic waste through	In the solar power plant sanitation and waste management is very less. However, PO has Waste management

⁵⁶ <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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			Legal Limit: Less than 300 Kgs/day		operation permanent toilets) for both men and women as per factories act and domestic waste generated will be disposed as per local regulations.			plant site Further the toilets and soak pits at the site are already constructed and are maintained regularly. Please refer to section B.7.2 for more details.		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 +1.	plan ⁵⁷ 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	Not Applicable

⁵⁷ <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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	<i>Add more rows if required</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Social - Education	<i>specialized training / education to local personnel (SE01)</i>	<i>The employees will receive on job training as per training needs.</i> It imparts a positive impact by helping employees in all-round development.	There is no legal requirement from local authority to provide training to local people	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. This will be monitored on annual basis and the details will be recorded in training logbooks. Please refer to section B.7.1 for more details.	+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 cross checked the training records /21/ 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.
	<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>	The employees will receive on job training as per training needs. It imparts a positive impact by helping employees in all-round development.	Not Applicable	Not Applicable	Harmless It has a positive impact.	Not Applicable	Not Applicable	No of Trainings	Not Applicable	This has a positive impact.	Not Applicable

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	<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
	<i>Add more rows if required (SE04)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Social - Welfare	<i>Improving/deteriorating working conditions (SW01)</i>	The scope of Improving/ deteriorating working condition is redundant to the parameter Avoiding discrimination when hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities (SJ04). Hence the monitoring of Improving/ deteriorating working conditions has been performed under the parameter SJ04. Hence it is 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>	There is a positive impact on the community and rural welfare.	Voluntary Action	Not Applicable	Harmless. Project activity implementation contributes to the Economic, Environmental, Economical, and social well-being for the community and Leads to the infrastructure development	Not Applicable	Not Applicable	Project owner will undertake and facilitate community needs on voluntary basis as and when any request received from the local communities.	+1	Project owner will keep interacting with the local community and identify the minimum accessibility needs of the community from time to time. By implementing the project activity project owner has	The project activity has claimed to create a number of activities directed to the local community. At the time of project verification, the project activity has organised activities directed to local population and improvement of local welfare. This has been validated by the CSR activities records /24/, On-site audit /25/ and interview.

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								<p>The following parameters will be monitored.</p> <p>1. Community development activities.</p> <p>This will be monitored on annual basis and the details will be recorded.</p> <p>Please refer to section B.7.1 for more details</p>		<p>already been contributed to local economic development, employment creation etc. This is a continuous process during the project lifetime.</p>	<p>PO has considered +1 score for this parameter, and it is verified as harmless.</p>
<i>Poverty alleviation (more people above poverty level) (SW03)</i>	Though the project creates certain no of employment the impact is not considerable in scale.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Improving / deteriorating wealth distribution / generation of income and assets (SW04)</i>	Though the project creates certain no of employment the impact is not considerable in scale.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Increase d or / deteriorating municipal revenues (SW05)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<i>Women's empowerment (SW06)</i>	The project owner has the non discrimination policy on recruitment and remuneration. (i.e	Resolution No. 28/NQ-CP dated March 03, 2021 on issuance of	Not Applicable	Harmless	Not Applicable	Not Applicable	The following parameter will be monitored.	+1	Project Owner ensures that there is	Company has employed women resource in compliance with the equal	

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	(human rights)	right of equal pay). This ensures there is no impact	national strategy for gender equality in 2021 - 2030 ⁵⁸					<p>1. Number of jobs provided to women.</p> <p>This parameter will be monitored through the Employment records.</p> <p>The data will be monitored on annual basis.</p> <p>Please refer to section B.7.1 for more details</p>	<p>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.</p> <p>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 will be scored.+1.</p>	<p>remuneration and minimum wage act. GCC Verifier has cross checked this with employment records /21/ and confirms that the PO has wiling to contribute towards women empowerment. PO has considered +1 score for this parameter and, it is verified as harmless.</p>
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⁵⁸ <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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	<i>Reduced / increase d traffic congesti on (SW07)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Exploitati on of Child labour (human rights) (SW08)</i>	Project activity provides employment in the region. However, project owner adheres to the Children Law ensuring that there is no exploitation of child labour	1.Code No.45/2019/QH14 ⁵⁹ – 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 Viet Nam ⁶⁰	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.	Employment to children below 15 years in any organization in Viet Nam is strictly prohibited by law. 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
	<i>Minimum wage protectio n (human rights) (SW09)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Abuse at work place.(wit</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

⁵⁹ http://boluatlaodong2019.molisa.gov.vn/lang_en/topic/viet_nam_labour_code/index

⁶⁰ <https://thuvienphapluat.vn/van-ban/Van-hoa-Xa-hoi/Law-102-2016-QH13-children-312407.aspx>

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<p><i>h specific reference to women and people with special disabilities / challenges)</i> <i>(human rights)</i> <i>(SW10)</i></p>											
<p><i>Other social welfare issues</i> <i>(SW11)</i></p>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<p><i>Avoidance of human trafficking and forced labour</i> <i>(human rights)</i> <i>(SW12)</i></p>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<p><i>Avoidance of forced eviction and/or partial physical or economic displacement of IPLCs</i> <i>(human rights)</i> <i>(CW13)</i></p>	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>Provisions of resettlement and human settlement displacement (human rights) (CW14)</i>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	<i>Threatened Livelihood</i>	Increased economic and infrastructure activity may lead to increased levels of pollution to air, water, and land, and consume finite resources in a manner that may threaten people and the environment.	Not Applicable	The proposed project is a clean energy project and will not have major pollution sources associated with it. Since the lands procured are not much 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 have given the land for lease.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	There is no loss or threat to the local livelihood or endangered species or environment due to the implementation of the project activity. Since the impact is neutral compared to the baseline scenario this parameter will not be scored.	Not Applicable
	<i>Communal Harmony</i>	The project activity has several positive impacts such as improving living conditions and promoting community involvement via economic development, revenue generation and improved infrastructure.	Not Applicable	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	Not Applicable

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										Livelihood, Community and rural welfare (indigenous people and communities) (SW02) and compared to the baseline scenario this parameter will not be scored.	
	Social inequality/safeguards	Social inequality in work place effects the employees working at the site.	Not Applicable	<p>Social inequality is strictly avoided as per company HR policy.</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>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	<p>The project owner will not encourage or promote the social inequality in the project activity. In addition, project management promotes avoidance of social inequality in the project region and promotes fare opportunity to all the genders.</p> <p>This parameter will not be scored.</p>	Not Applicable
	<i>Add more</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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	<i>rows if required</i>										
Net Score:		+8									
Project Owner's Conclusion in PSF:		The Project Owner confirms that the Project Activity will not cause any net harm to society.									
GCC Project Verifier's Opinion:		The GCC Verifier certifies that the Project Activity is not likely to cause any net harm to the Society.									

Appendix 7. United Nations Sustainable Development (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>Describe UN SDG targets and indicators</p> <p>See: https://unstats.un.org/sdgs/indicators/indicators-list/</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 need 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)
Goal 1: End poverty in all its forms everywhere	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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Goal 3. Ensure healthy lives and promote well-being for all at all ages	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
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 Increase global percentage of renewable energy 7.2.1 Renewable energy share in the total final energy consumption.	Yes	Quantity of net electricity supplied to the grid by project activity in year y	Annually generate around 61,632 MWh of renewable energy using solar energy	Project is already in operation since 10/12/2020 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 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	Project Owner meets the requirement of UN- level SDG goal. The same is acceptable to the GCC project verification team.

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								parameter 'EG _{PJ,y} ', 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.	
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 young people and persons with disabilities, and equal pay for	Yes	<p>Project activity supports creation of short term and long term job opportunities for men and women during the construction and operation of the project activity.</p> <p>Supports economic productivity through technology up gradation and innovation through training of labour in high intensive sector for both the genders.</p> <p>Project protects labour 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 Average earning of females and male employees engaged in the</p>	<p>Project creates new employment and generates income for around 25 no of people during the project lifetime</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</p>	<p>Project creates new employment and generates income for 25 no of people including men and women during the project lifetime.</p>	<ol style="list-style-type: none"> 1. Employment as per the national labour and company law including gender policy 2. Maintains company HR policy to create standard operating procedures (SOPs) to follow and maintain safe and secure work environment 3. paying the wages as per the minimum 	<p>Project owner monitors the implementation of the policies and employee grievances if any, through the separate HR manager and site in charge.</p> <p>Quantity of employment for both men and women will be monitored through employment records which will</p>	<p>The contribution towards SDG goal is by providing employment by creating new employment and generated income for number of people during the project lifetime /22/. This is being monitored by the parameter 'Long-term jobs (> 10 year) created/ lost (SJ01)' in the monitoring plan and is found adequate. This has been discussed</p>	<p>Project Owner meets the requirement of UN- level SDG goal. The same is acceptable to the GCC project verification team.</p>

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	work of equal value Indicator : 8.5.1 Average hourly earning of employee by sex, age, occupation and persons with disabilities.		project and segregated by age and persons with disabilities	women. Create employment for people with minimum wages as per the minimum wages act of host country		wages act of the country. The Pension contribution acknowledge ment as per the new legal policy.	include Name, Gender and salary etc.	under section D.3.7 of this report.	
Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Goal 10. Reduce inequality within and among countries	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Goal 12. Ensure sustainable consumption and production patterns	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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<p>Goal 13. Take urgent action to combat climate change and its impacts</p>	<p>13.2 Integrate climate change measures into national policies, strategies and planning</p> <p>Indicator : 13.2.2 Total greenhouse gas</p> <p>Convention on climate change.</p> <p>13.2.2 Total greenhouse gas emission per year.</p>	<p>Yes</p>	<p>Amount of emission reductions achieved by project (tCO2e)</p>	<p>53,255 tCO₂e over the crediting period for the project</p>	<p>Reductions in Emissions (tCO₂e) per unit of product due to project</p>	<p>Achieve annual emission reductions of 53,255 tCO₂e over the crediting period for the project</p>	<p>Measurement of monthly energy generation from the project.</p> <p>Calculation of amount of actual emission reductions achieved by the project.</p>	<p>The contribution towards SDG goal is being monitored by the parameter 'CO₂ emission reduction' in the monitoring plan and is found adequate. This has been discussed under section D.3.7 of this report.</p>	<p>Project Owner meets the requirement of UN-level SDG goal. The same is acceptable to the GCC project verification team.</p>
<p>Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>
<p>Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>	<p>Not Applicable</p>

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and halt biodiversity loss									
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
SUMMARY							Targeted	Likely to be Achieved	
Total Number of SDGs							3	3	
Certification label (Bronze, Silver, Gold, Platinum, or Diamond) for the ACCs as defined in the PSF							Silver	Silver	

DOCUMENT HISTORY

Version	Date	Comment
V 3.1	31/12/2020	<ul style="list-style-type: none"> ▪ The name of GCC Program’s emission units has been changed from “Approved Carbon Reductions” or ACRs to “Approved Carbon Credits” or ACCs.
V 3.0	23/08/2020	<ul style="list-style-type: none"> ▪ Revised version released on approval by the Steering Committee as per the GCC Program Process; ▪ Revised version contains the following changes: <ul style="list-style-type: none"> ○ Change of name from Global Carbon Trust (GCT) to Global Carbon Council (GCC); ○ Considered and addressed comments raised by the Steering Committee: <ul style="list-style-type: none"> ➢ during physical meeting (SCM 01, dated 29 Oct 2019, Doha Qatar); and ➢ electronic consultations EC01-Round 04 (17.08.2020 – 22.08.2020). ▪ Feedback from the Technical Advisory Board (TAB) of ICAO on GCC submissions for approval under CORSIA⁶¹;
V 2.0	25/06/2019	<ul style="list-style-type: none"> ▪ Revised version released for approval by the GCC Steering Committee. ▪ This version contains details and information to be provided, consequent to the latest worldwide developments (e.g., CORSIA EUC).
v1.0	01/11/2016	<ul style="list-style-type: none"> ▪ Initial version released for approval by the GCC Steering Committee under GCC Program Version 1

⁶¹See ICAO recommendation for conditional approval of GCC at https://www.icao.int/environmental-protection/CORSIA/Documents/TAB/Excerpt_TAB_Report_Jan_2020_final.pdf



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