



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. <small>(also provide weblink of approved GCC Certificate)</small>	Carbon Check (India) Private Limited. /GCCV004/01 http://globalcarboncouncil.com/wp-content/uploads/2021/10/carbon-check-india-private-limited-ccipl.pdf
Type of Accreditation	<input type="checkbox"/> Individual Track ¹ <input checked="" type="checkbox"/> CDM Accreditation E-0052 Valid from 28/03/2019 until 01/06/2024 https://cdm.unfccc.int/DOE/list/DOE.html?entityCode=E-0052 <input checked="" type="checkbox"/> ISO 14065 Accreditation 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 <ul style="list-style-type: none"> • 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	SEI Adhavan 175MW bundled solar power project in Tamil Nadu and Karnataka, INDIA Version 1.3 Dated 30/11/2023
Title of the project activity	SEI Adhavan 175MW bundled solar power project in Tamil Nadu and Karnataka, INDIA
Project submission reference no. <small>(as provided by GCC Program during GSC)</small>	S00714
Eligible GCC Project Type² as per the Project Standard	<input checked="" type="checkbox"/> Type A: <input type="checkbox"/> Type A1

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

Project Verification Report

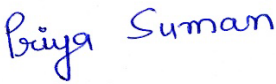
(Tick applicable project type)	<input checked="" type="checkbox"/> Type A2 <input checked="" type="checkbox"/> Sub-Type 1 <input type="checkbox"/> Sub-Type 2 <input type="checkbox"/> Sub-Type 3 <input type="checkbox"/> Sub-Type 4 <input type="checkbox"/> Type B – De-registered CDM Projects: <input type="checkbox"/> Type B1 <input type="checkbox"/> Type ³ B2												
Date of completion of Local stakeholder consultation	LSC dates for the 5 Project Activities forming the bundle are as follows: <table border="1" data-bbox="673 786 1436 1115"> <thead> <tr> <th>Project Activity Location</th> <th>LSC Completion Date</th> </tr> </thead> <tbody> <tr> <td>RT Renewable Energy India Pvt. Ltd</td> <td>05/02/2022</td> </tr> <tr> <td>SEI Phoebus Pvt. Ltd</td> <td>08/02/2022</td> </tr> <tr> <td>SEI Adhavan Power Pvt. Ltd</td> <td>10/02/2022</td> </tr> <tr> <td>SEI Diamond Pvt. Ltd</td> <td>12/02/2022</td> </tr> <tr> <td>SEI Venus Pvt. Ltd</td> <td>12/02/2022</td> </tr> </tbody> </table>	Project Activity Location	LSC Completion Date	RT Renewable Energy India Pvt. Ltd	05/02/2022	SEI Phoebus Pvt. Ltd	08/02/2022	SEI Adhavan Power Pvt. Ltd	10/02/2022	SEI Diamond Pvt. Ltd	12/02/2022	SEI Venus Pvt. Ltd	12/02/2022
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RT Renewable Energy India Pvt. Ltd	05/02/2022												
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SEI Adhavan Power Pvt. Ltd	10/02/2022												
SEI Diamond Pvt. Ltd	12/02/2022												
SEI Venus Pvt. Ltd	12/02/2022												
Date of completion and period of Global stakeholder consultation. Have the GSC comments been verified. Provide web-link.	12/12/2022 to 26/12/2022 No comments were received during GSC. https://www.globalcarboncouncil.com/global-stakeholders-consultation.html												
Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners)	M/s SEI Adhavan Power Pvt. Ltd Greenko Energies Private Limited												
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	M. Murali Krishnam Raju muraliraju.m@greenkogroup.com Greenko Energies Private Limited												
Country where project is located	India												
GPS coordinates of the Project site(s)	<table border="1" data-bbox="679 1868 1445 1933"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Latitude	Longitude										
Latitude	Longitude												

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.

	M/s RT Renewable Energy India Pvt. Ltd Capacity: 15 MW			
	Village: Paralachi, District: Virudhunagar, State: Tamilnadu			
	9°20'17.52"N	9.3382°N	78°15'27.72"E	78.2577°E
	M/s SEI Phoebus Pvt. Ltd Capacity: 50 MW			
	Village: Paniur, District: Virudhunagar, State: Tamilnadu			
	9°31'11.28"N	9.5198°N	78°13'36.12"E	78.2267°E
	M/s SEI Adhavan Power Pvt. Ltd Capacity: 50 MW			
	Village: Veerakudi, Taluk: Tiruchuli, District: Virudhunagar, State: Tamilnadu			
	9°34'39.72"N	9.5777°N	78°18'34.2"E	78.3095°E
	M/s SEI Venus Pvt. Ltd Capacity: 30 MW			
	Survey no. 343, Village: Varavukaval, District: Chitradurga, State: Karnataka			
	14°22'10.92"N	14.3697°N	76°35'47.4"E	76.5965°E
	M/s SEI Diamond Pvt. Ltd Capacity: 30 MW			
	Survey no. 343, Village: Varavukaval, District: Chitradurga, State: Karnataka			
	14°22'10.92"N	14.3697°N	76°35'47"E	76.5965°E
	Applied methodologies (approved methodologies of GCC or CDM can be used)	GCCM001 - Methodology for Renewable Energy Generation Projects Supplying Electricity to Grid or Captive Consumers (Version 3.0 - 2022)		
GHG Sectoral scopes linked to the applied methodologies	GHG-SS 1: Energy (renewable/non-renewable sources)			
Project Verification Criteria: Mandatory requirements to be assessed	<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			

	<ul style="list-style-type: none"> <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) <input checked="" type="checkbox"/> Others – CORSIA requirements
<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 [“SEI Adhavan 175MW bundled solar power project in Tamil Nadu and Karnataka, INDIA”].</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 1.3, dated 30/11/2023) including the applicability of the approved methodology [GCC methodology, GCCM001 version 3.0] and meets the methodology applicability conditions and is expected to achieve the forecasted real and additional GHG emission reductions, complies with the monitoring methodology, has appropriately conducted local and global stakeholder consultation processes and has calculated emission reductions estimates correctly and conservatively. <input checked="" type="checkbox"/> The Project Activity is likely to generate GHG emission reductions amounting to the estimated 2,592,312 tCO_{2e} during the crediting period, as indicated in the PSF, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable GCC rules, including ISO 14064-2 and ISO 14064-3. <input checked="" type="checkbox"/> The Project Activity is not likely to cause any net-harm to the environment and/or society and complies with the Environmental and Social Safeguards Standard, and is likely to achieve the following labels: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Environmental No-net-harm Label (E⁺) <input checked="" type="checkbox"/> Social No-net-harm Label (S⁺) <input checked="" type="checkbox"/> The Project Activity is likely to contribute to the achievement of United Nations Sustainable Development Goals (SDGs), complies with the Project Sustainability Standard, and contributes

	<p>to achieving a total of 6 SDGs [SDG 3, 4, 7, 8, 9, and 13], with the following⁴ SDG certification label (SDG+):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Bronze SDG Label <input type="checkbox"/> Silver SDG Label <input type="checkbox"/> Gold SDG Label <input type="checkbox"/> Platinum SDG Label <input checked="" type="checkbox"/> Diamond SDG Label <p><input checked="" type="checkbox"/> The Project Activity complies with all the applicable requirement of the GCC Program and ICAO’s requirements on CORSIA Emissions Unit Eligibility Criteria and CORSIA Eligible Emissions Units, as per Clarification No 1., v1.3 paragraph 23-25, and the ACCs expected to be issued during the crediting period is likely to be CORSIA eligible and can be used by International Airlines for offsetting their emissions during all phases of CORSIA and therefore requests GCC Steering Committee to append CORSIA Certification label (C+) to this project</p> <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>Project Verification Report - CC IPL1350/GCC/VAL/SEIASPPTNK/20220520 3.0, 10/12/2023</p>
<p>Name of the authorised personnel of GCC Project Verifier and his/her signature with date</p>	<p>Priya Suman  10/12/2023</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

M/s SEI Adhavan Power Pvt. Ltd and Greenko Energies Private Limited has appointed the Project Verifier, Carbon Check (India) Private Ltd. (CC IPL), to perform an independent project verification of the project activity “SEI Adhavan 175MW bundled solar power project in Tamil Nadu and Karnataka, INDIA” (hereinafter referred to as “project activity”). This report summarizes the findings of verification of the project, performed on the basis of 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, 175 MW bundled solar power project, is jointly owned by M/s RT Renewable Energy India Pvt. Ltd, M/s SEI Phoebus Pvt. Ltd, M/s SEI Adhavan Power Pvt. Ltd, M/s SEI Venus Pvt. Ltd and M/s SEI Diamond Pvt. Ltd. M/s SEI Adhavan Power Pvt. Ltd and Greenko Energies Private Limited are authorized to act as the Project Owners /25/ in accordance with the requirements of the GCC programme as stated under paragraph 18 of the GCC Clarification No.1 version 1.3 /B01-6/. The purpose of project activity is to utilize clean technology to generate electricity by harnessing solar radiation energy and supply the generated electricity to the Indian grid, which is predominantly fossil fuel based. The bundled project activity involves the installation of five solar photovoltaic power plants with capacities of 15 MW, 50 MW, 50 MW, 30 MW and 30 MW of which 15MW, 50 MW & 50MW are from Tamil Nadu and two solar photovoltaic power plants with capacities of 30 MW each in Karnataka, India. The average annual electricity supplied to grid will be of 278,593 MWh, translating into annual average emission reductions of around 259,231 tCO₂e.

The project also contributes to Environmental No-net-harm Label (E+), Social No-net-harm Label (S+), CORSIA requirements (C+) and 6 United Nations Sustainable Development Goals (SDG+).

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

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

intended generation of Approved Carbon Credits (ACCs).

Location

The bundled project activity is implemented in the states of Tamil Nadu and Karnataka, India. Details of the same are as follows:

Latitude		Longitude	
M/s RT Renewable Energy India Pvt. Ltd Capacity: 15 MW Village: Paralachi, District: Virudhunagar, State: Tamilnadu			
9°20'17.52"N	9.3382°N	78°15'27.72"E	78.2577° E
M/s SEI Phoebus Pvt. Ltd Capacity: 50 MW Village: Paniur, District: Virudhunagar, State: Tamilnadu			
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M/s SEI Venus Pvt. Ltd Capacity: 30 MW Survey no. 343, Village: Varavukaval, District: Chitradurga, State: Karnataka			
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14°22'10.92 "N	14.3697°N	76°35'47"E	76.5965°E

Scope of Project Verification

The project verification scope is defined as the independent and objective review of the project submission form (PSF /1-a/). The PSF /1/ is reviewed against the relevant criteria and decisions by the GCC, including the applied GCC approved baseline and monitoring methodology, GCCM001, version 3.0 /B02/, and allied CDM tools. The verification team has, based on the recommendations in the GCC Project Standard, Version 3.1 /B01-1/, Project Verification Standard Version 3.1 /B01-2/, Project Sustainability Standard v 3.0 /B01-5/ and Environment & Social Safeguards Standard v 3.0 /B01-4/, employed a rule-based approach, focusing on the identification of significant risks for project implementation and the generation of ACCs.

The verification activity aims to establish that the proposed project activity meets the requirements set forth in the aforementioned frameworks and standards and also fulfils applicable Legal requirements/rules of host country, National Sustainable Development Criteria and CORSIA requirements and other GCC requirements related to aspects such as project design, applicable conditions, project boundary, baseline scenarios, additionality, emission reduction, monitoring plan, local stakeholder consultation, global stakeholder consultation, GHG emission reductions (ACCs), environmental no-net harm label (E+), social no net harm label (S+), gold SDG label (SDG+), CORSIA+.

The verification is not meant to provide any consulting to 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 /1/ complies with the requirements of the applicability conditions of the selected methodology /B02/, guidance issued by the GCC and also assess the claims and assumptions made in the PSF /1/ without limitation on the information provided by the project owner.

Verification Process

Strategic risk Analysis and delineation of the Verification plan:

CC IPL employed the following Project Verification 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 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 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 Verification Plan:

The Audit Team formally documented its Verification plan.

The Verification plan was developed based on discussion of key elements of the 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 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:

- Reasonableness of the assumptions, limitations and methods used to forecast information as per GCC requirements,
- Standards of evaluation and reporting for the Verification.

It also provides an outline of the 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 review of the data and information;
 - Cross checks between information provided in the PSF /1-b/ 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
 - Interviews with relevant stakeholders in host country with personnel having knowledge with the project development;
 - 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 /B02/ 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 between the Project Verifier, CCIPL and the Project Owner signed on 21/06/2022 /B22/. The team assigned to the Verification meets the CCIPL's internal procedures including the GCC requirements for the team composition and competence. The 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 /1/ 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 /B02/ and their underlying formulae and calculations.

This report contains the details of the resolution of findings from the project verification which are successfully resolved by the PO to confirm the program design in the documents is sound and reasonable and meets the stated requirements and identified criteria.

Conclusion

Carbon Check (India) Private Ltd. is of the opinion that the project activity “SEI Adhavan 175MW bundled solar power project in Tamil Nadu and Karnataka, INDIA” in India as described in the final PSF (Version 1.3, dated 30/11/2023) /1/ meets all relevant requirements of GCC and has correctly applied the GCC baseline and monitoring methodology GCCM001 ‘Methodology for Renewable Energy Generation Projects Supplying Electricity to Grid or Captive Consumers’ version 3.0 /B02/. The review of the PSF, supporting documentation and subsequent follow-up actions (onsite audit and interviews) have provided CCIPL with sufficient evidence to determine the fulfilment of the voluntary labels E+, S+ /B01-4/ and SDG+ with Dimond rating /B01-5/.

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 /B01-6/ paragraph 23-25, and the ACCs expected to be issued during the crediting period is likely to be CORSIA eligible and can be used by International Airlines for offsetting their emissions during all phases of CORSIA and therefore requests GCC Steering Committee to append CORSIA Certification label (C+) to this project”.

Carbon Check (India) Private Ltd. therefore is able to recommend the project activity to the GCC Steering Committee with a request for registration.

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 / Local expert/ Financial Expert	IR	Agarwalla	Sanjay Kumar	CCIPL	X	X	X	X
2.	Team Member	IR	Halder	Manas	CCIPL	X	X	X	X

3.	Team Member	E R	Nayak	Kiran ⁶	CC IPL	X	-	-	X
4.	Trainee Assessor	IR	Nadkarni	Tanvi	CC IPL	X	-	-	X
5.	Trainee Assessor	IR	Tekapso	Leslie	CC IPL	X	-	-	X
6.	Trainee Assessor	IR	Shirke	Rishika ⁷	CC IPL	X	X	X	X

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 / Financial Expert	IR	Seshan	Ranganathan	CC IPL
2.	Approver	IR	Suman	Priya	CC IPL

Section C. Means of Project Verification

C.1. Desk/document review

>>

The report is based on the assessment of the initial PSF/1-a/ and final PSF/1-b/ undertaken through verification of information using the source provided by the project owner, stakeholder consultations, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., on site visit, interviews) and also the review of the applicable approved methodological and relevant tools, guidance and GCC decisions. 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 project verification is provided in Appendix-3.

C.2. On-site inspection

Duration of on-site inspection: 07/02/2023, 08/02/2023 and 09/02/2023				
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 GCC methodology 	30 MW M/s SEI Venus Pvt. Ltd Survey no. 343, Village: Varavukaval,	07/02/2023	Sanjay Kumar Agarwalla, Manas Halder, Rishika Shirke

⁶Worked until 05/09/2023

⁷Worked until 31/08/2023

Project Verification Report

	<ul style="list-style-type: none"> • 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 <p>Emission reduction calculations</p>	<p>District: Chitradurga, State: Karnataka</p> <p>30 MW M/s SEI Diamond Pvt. Ltd Survey no. 343, Village: Varavukaval, District: Chitradurga, State: Karnataka</p> <p>15 MW M/s RT Renewable Energy India Pvt. Ltd Village: Paralachi, District: Virudhunagar, State: Tamilnadu</p> <p>50 MW M/s SEI Phoebus Pvt. Ltd Village: Paniur, District: Virudhunagar, State: Tamilnadu</p> <p>50 MW M/s SEI Adhavan Power Pvt. Ltd Village: Veerakudi, Taluk: Tiruchuli, District: Virudhunagar, State: Tamilnadu</p>	<p>07/02/2023</p> <p>08/02/2023</p> <p>09/02/2023</p> <p>09/02/2023</p>	
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C.3. Interviews

Project Verification Report

No.	Interview			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Thirupathamma	Arla	Zenith Energy	07/02/2023	Discussion on project implementation, monitoring, Environmental impact, Management structure with Roles and Responsibilities, Socio-economic Impacts of the project activity Sustainability aspects of the project, local stakeholders meeting, legal ownership of the project activity	Sanjay Kumar Agarwalla, Manas Halder, Rishika Shirke
2.	Tiruvuri	Saikrishna	Zenith Energy	07/02/2023		
3.	C	Nagraj	Site Incharge (Venus and Diamond)	07/02/2023		
4.	Balaji	M. N.	HR (Venus and Diamond)	07/02/2023		
5.	Jegannath	V.	Site Incharge (Asst. Manager – RT renewables)	08/02/2023		
6.	Pothuvarasu	N.	Assistant manager (RT Renewables)	08/02/2023		
7.	Kumar	E. Shenbaga	Deputy Manager (EHS-TN cluster)	08/02/2023		
8.	Nagaraj	R.	Deputy Manager (Stores – TN Cluster)	08/02/2023		
9.	Alagarsamy	M.	Deputy Manager (SEI-Phoebus)	09/02/2023		
10.	Mani	K.	Assistant manager (SEI Phoebus)	09/02/2023		
11.	Joshua	C. Leo	Manager (SEI Adhavan)	09/02/2023		
12.	S.	Kathiravan	Senior Manager (TN Cluster)	09/02/2023		
13.	Rajan	Shivai	LSC (Venus)	07/02/2023	Environment and Social impacts of the project	
14.	-	Papanna	LSC (Venus)	07/02/2023	Environment and Social impacts of the project	
15.	Agrawal	-	LSC (Diamond)	07/02/2023	Environment and Social impacts of the project	
16.	-	Boresh	LSC	07/02/2023	Environment and	

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			(Diamond)		Social impacts of the project
17.	A.	Muthuraj	Land owner (LSC – RT Renewables)	08/02/2023	Environment and Social impacts of the project
18.	Y.	Pakiyaraj	LSC (RT Renewables)	08/02/2023	Environment and Social impacts of the project
19.	Selvakumar	A.	Land owner (LSC – SEI Phoebus)	09/02/2023	Environment and Social impacts of the project
20.	Velu	K.	LSC (SEI Phoebus)	09/02/2023	Environment and Social impacts of the project
21.	Murugan	L.	LSC – SEI Adhavan	09/02/2023	Environment and Social impacts of the project
22.	Kalimuthu	R.	LSC – SEI Adhavan	09/02/2023	Environment and Social impacts of the project
23.	Sastha	R. Saravana	Land owner (LSC – SEI Adhavan)	09/02/2023	Environment and Social impacts of the project
24.	Kannan	Kali	Technician (RT Renewables)	08/02/2023	Long term employee
25.	-	Ramachandran	Labour (RT Renewables)	08/02/2023	Short term employee
26.	-	Krishnasamy	Security and Land owner (RT Renewables)	08/02/2023	Short term employee
27.	Nagarajan	K.	Technician (SEI Phoebus)	09/02/2023	Long term employee
28.	-	Mathaiya	Labour (SEI Phoebus)	09/02/2023	Short term employee
29.	Karuppasamy	S.	Technician (SEI Adhavan)	09/02/2023	Long term employee
30.	Nagapandi	S.	Security (SEI Adhavan)	09/02/2023	Short term employee

C.4. Sampling approach

No sampling approach has been applied to the proposed bundled project.

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	1	2	-
Application and selection of methodologies and standardized baselines	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
- Application of methodologies and standardized baselines	A ₁ , A ₂ , B ₁ , B ₂	-	1	-
- 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	-	1	-
- Baseline scenario	A ₁ , A ₂ , B ₁ , B ₂	-	1	-
- Demonstration of additionality including the Legal Requirements test	A ₁ , A ₂ , B ₁ , B ₂	1	1	-
- Estimation of emission reductions or net anthropogenic removals	A ₁ , A ₂ , B ₁ , B ₂	3	1	-
- Monitoring plan	A ₁ , A ₂ , B ₁ , B ₂	2	-	-
Start date, crediting period and duration	A ₁ , A ₂ , B ₁ , B ₂	1	-	-
Environmental impacts	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
Local stakeholder consultation	A ₁ , A ₂ , B ₁	-	1	-
Approval & Authorization- Host Country Clearance	A ₁ , A ₂ , B ₁ , B ₂	-	-	FAR 01
Project Owner- Identification and communication	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
Global stakeholder consultation	A ₁ , A ₂ , B ₁	-	-	-
PSF Template	A ₁ , A ₂ , B ₁ , B ₂	-	-	-
Others (Supporting Documents)	A ₁ , A ₂ , B ₁ , B ₂	1	-	-
VOLUNTARY CERTIFICATION LABELS				
Environmental Safeguards (E ⁺)	A ₁ , A ₂ , B ₁	1	-	-
Social Safeguards (S ⁺)	A ₁ , A ₂ , B ₁	-	-	-
Sustainable development Goals (SDG ⁺)	A ₁ , A ₂ , B ₁	1	-	-
Authorization on Double Counting from Host Country (only for CORSIA)	A ₁ , A ₂ , B ₁	-	-	-
CORSIA Eligibility (C ⁺)		-	-	FAR 01
Total		11	8	1

Section D. Project Verification findings

D.1. Identification and eligibility of project type

Means of Project Verification	DR, I
Findings	No findings pertaining to this section.
Conclusion	The Verification team reviewed the PSF /1-b/ and confirms that the Project Owner determines the type of proposed GCC project activity as Type A2. As per §11 of GCC Project Standard (version 03.1) /B01-1/, "These types of projects are prompt-start and had already started their operations as of 5 th July 2020. Their start date of operations shall be after 1 st January 2016 but before 5 th July 2022. The start date of the Crediting Period for such GCC Project Activities shall be on or after 1 Jan 2016 but not more than one year after the start date of the operations of the GCC Project Activity."

	<p>Furthermore, as per §03 I, (iv) of GCC clarification no.01 <i>“The deadline for submission of A2 projects has been extended. As per clarification, A2 type projects are required to make initial submission to GCC program, for uploading for global stakeholder consultation, prior to 5 July 2022”/B01-6/.</i></p> <p>The proposed bundle activity has started its operations on 08/02/2016 (earliest amongst all the project activities forming the bundle), the start date of crediting period is 07/02/2017 and it was published for global stakeholder consultation from 12/12/2022 to 26/12/2022. The bundled project activity was submitted to GCC on 23/06/2022.</p> <p>The project activities forming the bundle have the following start dates:</p> <table border="1" data-bbox="609 696 1331 954"> <thead> <tr> <th>Project Activity Location</th> <th>Capacity</th> <th>Start Date</th> </tr> </thead> <tbody> <tr> <td>M/s. RT Renewable Energy India Pvt. Ltd</td> <td>15 MW</td> <td>28/03/2016</td> </tr> <tr> <td>M/s. SEI Phoebus Pvt. Ltd</td> <td>50 MW</td> <td>08/02/2016</td> </tr> <tr> <td>M/s. SEI Adhavan Power Pvt. Ltd</td> <td>50 MW</td> <td>31/03/2016</td> </tr> <tr> <td>M/s. SEI Venus Pvt. Ltd</td> <td>30 MW</td> <td>28/03/2017</td> </tr> <tr> <td>M/s. SEI Diamond Pvt. Ltd</td> <td>30 MW</td> <td>28/03/2017</td> </tr> </tbody> </table> <p>The start date of operation of the bundled activity is considered as the earliest start date amongst all of the involved homogenous project activities i.e., 08/02/2016. The start date of the project activity has been duly verified against the commissioning reports/8/ and found to be acceptable by the verification team. This complies with the requirement of §11 of the GCC Project Standard (version 03.1) including GCC Clarification No. 01 /B01-1/ and § 25 (b) of GCC Project Verification Standard (version 03.1) /B01-2/ and hence the determined project activity type i.e. Type A2 is found to be acceptable by the verification team.</p> <p>Furthermore, the project verification team checked the other GHG and Non-GHG programmes like, Clean Development Mechanism (CDM) Registry /B08/, VERRA Registry /B09/, and Gold Standard Registry /B10/, I-REC /B12/, and Renewable Energy Certificate (REC) Mechanism /B11/, for the information regarding the consistency of the title of the project activity, GPS coordinates, Legal Ownership of the Project activity to determine if the project was part of any other GHG Program prior to commencement of this verification. It was confirmed that the project owner has not submitted the said project activity under any other GHG program apart from GCC.</p>	Project Activity Location	Capacity	Start Date	M/s. RT Renewable Energy India Pvt. Ltd	15 MW	28/03/2016	M/s. SEI Phoebus Pvt. Ltd	50 MW	08/02/2016	M/s. SEI Adhavan Power Pvt. Ltd	50 MW	31/03/2016	M/s. SEI Venus Pvt. Ltd	30 MW	28/03/2017	M/s. SEI Diamond Pvt. Ltd	30 MW	28/03/2017
Project Activity Location	Capacity	Start Date																	
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M/s. SEI Adhavan Power Pvt. Ltd	50 MW	31/03/2016																	
M/s. SEI Venus Pvt. Ltd	30 MW	28/03/2017																	
M/s. SEI Diamond Pvt. Ltd	30 MW	28/03/2017																	

D.2. General description of project activity

Means of Project Verification	DR, I
Findings	CL 09, CAR 01 and CAR 02 were raised and closed successfully. Please refer to Appendix 4 for further details.
Conclusion	<p>The description of the project activity contained in the PSF /1-b/ can be considered transparent, detailed and provides a clear overview of the project. The same was confirmed by means of document review and interviews to verify the accuracy and completeness of the project description.</p> <p>‘SEI Adhavan 175MW bundled solar power project in Tamil Nadu and Karnataka, INDIA’ is a Solar Photovoltaic Bundled Power Project with total installed capacity of 175 MW. The bundled project activity involves the installation of five solar</p>

	<p>photovoltaic power plants with capacities of 15 MW, 50 MW, 50 MW, 30 MW and 30 MW of which 15MW, 50 MW & 50MW are from Tamil Nadu and two solar photovoltaic power plants with capacities of 30 MW each in Karnataka, India. The purpose of this project activity is to generate electricity by harnessing solar radiation energy and supply the generated electricity to the connected Indian grid. The project verification team has confirmed the same by cross verifying the commissioning reports /8/, power purchase agreement /5/ and physical verification of project site /30/.</p> <p>The project activity by M/s RT Renewable Energy India Pvt. Ltd uses PV module type: Poly-Si of Astronergy Make with a rated maximum power of 315W while the activity by M/s SEI Phoebus Pvt. Ltd employs Polycrystalline modules of Astronergy make with a rated maximum power of 310W and the project activity by M/s SEI Adhavan Power Pvt. Ltd uses Multicrystalline modules of Sunedison Make with a rated maximum power of 315W.</p> <p>Furthermore, the project activity by M/s SEI Venus Pvt. Ltd uses Polycrystalline modules of Polycrystalline make with a rated maximum power of 320W while the project activity by M/s SEI Diamond Pvt. Ltd uses Polycrystalline modules of Risen make with a rated maximum power of 320W.</p> <p>The solar PV Modules along with associated connection boxes, Transformers, Inverters, other field equipment in all the project premises produce the total project capacity of 175 MW with an expected lifetime of 25 years. The same has also been confirmed from the technical specifications provided by the manufacturers /6/.</p> <p>The power generation from the project activity replaces the equal amount of power which would otherwise have been supplied from the fossil fuel dominated grid. Thus, project activity helps in an average annual emission reduction of 259,231 tCO₂e/year for a period of 10 years with an annual electricity generation estimated at 278,593 MWh. The same has been crosschecked from the actual generation records /11/ during the physical onsite visit and is found to be acceptable.</p> <p>In the baseline scenario the equivalent amount of 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. The main emission source in the baseline scenario is the power plants connected to the grid and main greenhouse gas involved is CO₂.</p> <p>The bundled project activity is implemented in the states of Tamil Nadu and Karnataka in India. The geographic co-ordinates for the project activity are:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Latitude</th> <th colspan="2">Longitude</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">M/s RT Renewable Energy India Pvt. Ltd Capacity: 15 MW</td> </tr> <tr> <td colspan="4" style="text-align: center;">Village: Paralachi, District: Virudhunagar, State: Tamilnadu</td> </tr> <tr> <td style="text-align: center;">9°20'17.52"N</td> <td style="text-align: center;">9.3382°N</td> <td style="text-align: center;">78°15'27.72"E</td> <td style="text-align: center;">78.2577° E</td> </tr> <tr> <td colspan="4" style="text-align: center;">M/s SEI Phoebus Pvt. Ltd Capacity: 50 MW</td> </tr> </tbody> </table>	Latitude		Longitude		M/s RT Renewable Energy India Pvt. Ltd Capacity: 15 MW				Village: Paralachi, District: Virudhunagar, State: Tamilnadu				9°20'17.52"N	9.3382°N	78°15'27.72"E	78.2577° E	M/s SEI Phoebus Pvt. Ltd Capacity: 50 MW			
Latitude		Longitude																			
M/s RT Renewable Energy India Pvt. Ltd Capacity: 15 MW																					
Village: Paralachi, District: Virudhunagar, State: Tamilnadu																					
9°20'17.52"N	9.3382°N	78°15'27.72"E	78.2577° E																		
M/s SEI Phoebus Pvt. Ltd Capacity: 50 MW																					

Village: Paniur, District: Virudhunagar, State: Tamilnadu			
9°31'11.28"N	9.5198°N	78°13'36.12"E	78.2267° E
M/s SEI Adhavan Power Pvt. Ltd Capacity: 50 MW Village: Veerakudi, Taluk: Tiruchuli, District: Virudhunagar, State: Tamilnadu			
9°34'39.72"N	9.5777°N	78°18'34.2"E	78.3095° E
M/s SEI Venus Pvt. Ltd Capacity: 30 MW Survey no. 343, Village: Varavukaval, District: Chitradurga, State: Karnataka			
14°22'10.92"N	14.3697° N	76°35'47.4"E	76.5965° E
M/s SEI Diamond Pvt. Ltd Capacity: 30 MW Survey no. 343, Village: Varavukaval, District: Chitradurga, State: Karnataka			
14°22'10.92" N	14.3697°N	76°35'47"N	76.5965°N

The same was confirmed by the measurement of co-ordinates using google earth software and GPS at the project site and were found appropriate.

The verification team confirms that project owner has described the GHG emission-reduction activity, including schematics, specifications, and a description of how the project reduces GHG emissions. The same is in accordance with §36 of Project Standard Version 03.1 /B01-1/ and cross checked with PSF /1-b/. Furthermore, the Project Activity is a voluntary action by the project owner as confirmed by the verification team upon review of the PSF /1-b/ and on-site visit interviews/30/.

As stated in the PSF /1-b/, the project activity also voluntarily contributes to Environmental No-net-harm Label (E+), Social No-net-harm Label (S+) and 6 United Nations Sustainable Development Goals (SDG+).

As per the PSF /1-b/, the start date of the Project Activity is 08/02/2016 (earliest start date of operations amongst all of the project activities forming the bundle). The same is in accordance with requirements of §38 of Project Standard (version 03.1) /B01-1/ as well as §13 of the GCC Clarification No. 1 version 1.3 /B01-6/. The project verification team confirmed the same during the physical onsite visit /30/ as well as from the commissioning certificates /8/.

The homogeneity of the bundle is ascertained on the basis of the two-level analysis formulated in the GCC Clarification No.1, version 1.3. The same can be summarized as follows:

Level-1 Analysis - Consideration of key aspects for developing Homogeneous

	<p><u>Bundles:</u></p> <p>All the 5 individual solar power project activities meet the criteria outlined in §11 of the GCC Clarification No. 1 version 1.3 /B01-6/ as follows:</p> <ol style="list-style-type: none"> 1. Similarity in Technological Considerations - All activities in a bundle apply same type of technology i.e. Grid connected Solar PV and apply the same methodology i.e. GCCM001 Version 3.0 2. Similarity in Economic and Policy Considerations: All activities in the bundle apply: <ol style="list-style-type: none"> i. Post Tax Equity IRR for investment analysis ii. same investment decision year i.e., 2014 iii. Employ the same benchmark [Default value for the cost of equity (expected return on equity) as enshrined in the Investment Analysis. iv. all the activities in the bundle are located in same country i.e. India v. all the activities in the bundle supply electricity to the Indian Grid. 3. Similarity in Environmental or Methodological Considerations - All activities in the bundle <ol style="list-style-type: none"> i. apply the same methodology i.e. GCCM001 Version 3.0 /B02/ ii. adopt same baseline approach i.e. Indian Grid iii. adopt same monitoring approach and measurement parameters <p><u>Level-2 analysis – Criteria for differentiating the bundles:</u></p> <p>All the 5 individual solar power project activities meet the criteria outlined in §12 of the GCC Clarification No. 1 version 1.3 /B01-6/ as follows:</p> <ol style="list-style-type: none"> 1. Same baseline of each activity within a bundle i.e. Indian Grid 2. Same output of each activity i.e. electricity 3. Same Technology of each activity i.e. solar power based electricity generation 4. Same additionality approach i.e. investment analysis using post tax equity IRR <p>It can therefore be concluded that all the 5 individual project activities involved in the bundle satisfy the criteria outlined in §11 and §12 of the GCC Clarification No. 1 version 1.3 /B01-6/ and hence the bundle is homogenous in nature. The project verification team confirmed the same after reviewing the PSF /1-b/ and other relevant documents.</p> <p>The crediting period is a fixed crediting period of 10 years from 07/02/2017 to 06/02/2027. This is cross checked with the PSF /1-b/ and conforms with the requirements of §39 and §40 of Project Standard Version 03.1 /B01-1/.</p> <p>CC IPL verification team is therefore able to confirm that the description of the proposed Project Activity in the PSF /1/ is accurate and complete and it provides a clear understanding of the Project Activity. The same is found to be acceptable.</p> <p>Furthermore, the verification team cross checked other GHG programmes like Clean Development Mechanism (CDM) Registry /B08/, VERRA Registry /B09/, Gold Standard Registry /B10/, and voluntary non-GHG Programs like I-REC/B12/ Renewable Energy Certificate (REC) Mechanism /B11/ in India for the information regarding the consistency of the title of the project activity , GPS coordinates, Legal Ownership of the Project activity to determine if the project was part of any other GHG Program prior to commencement of this verification. It was confirmed that the project owner has not submitted the said bundled project activity or any of the individual project activities involved under any other GHG program apart from GCC.</p>
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D.3. Application and selection of methodologies and standardized baselines

D.3.1 Application of methodology and standardized baselines

Means of Project Verification	DR, I								
Findings	CAR 03 was raised and closed successfully. Please refer to Appendix 4 for further details.								
Conclusion	<p>The GCC methodology applied is GCCM001, version 3.0 /B02/. It is applicable to grid-connected electricity generation from renewable sources. Applicability of the methodology was confirmed by means of interviews with the PO representatives and document review.</p> <p>The applied methodology /B02/ is correctly quoted and is identical to the version available on the GCC website. The applied methodology version of the baseline and monitoring methodology /B02/ is valid at the time of submission of the PSF /1/ for global stakeholder consultation. All applicability criteria in the methodology are assessed in the below table:</p> <table border="1" data-bbox="491 925 1469 2022"> <thead> <tr> <th>Applicability criteria of the methodology (GCCM001, version 3.0)</th> <th>Justification in the PSF</th> <th>Project Verifier assessment</th> </tr> </thead> <tbody> <tr> <td> <p>Paragraph 9 of the applied methodology states that:</p> <p>The project activities eligible under this methodology aim to build and operate a new USPP or new DPPs, which are subject to following eligibility conditions.</p> <p>(a) The renewable energy generation projects shall supply electricity to user(s), either grid or a specific identified user. The project activity will displace electricity from an electricity distribution system that is or would have been supplied by from a national or a regional grid (grid hereafter); the following renewable energy generation technologies qualify under this methodology: (i) Solar Photovoltaic; (ii) On-shore or Off-shore Wind; (iii) Tidal; (iv) Wave</p> </td> <td> <p>This criterion is applicable, as the project employs Solar Photovoltaic power generation technology and supply generated electricity to Indian Grid.</p> </td> <td> <p>The project activity involves the installation of 175 MW Solar Photovoltaic Panels. The same is a bundled project involving 5 project activities as detailed in section D.2 above.</p> <p>The electricity thus generated from project activity is exported to the Indian grid in India through power purchase agreements (PPA) with /5/, thereby displacing electricity from the regional grid generated by fossil fuel-based power plants.</p> <p>CCPIL project verification team has confirmed the same from the power purchase agreement /5/, as well as the commissioning certificates /8/. The said criterion is fulfilled by the project activity and hence the methodology</p> </td> </tr> </tbody> </table>			Applicability criteria of the methodology (GCCM001, version 3.0)	Justification in the PSF	Project Verifier assessment	<p>Paragraph 9 of the applied methodology states that:</p> <p>The project activities eligible under this methodology aim to build and operate a new USPP or new DPPs, which are subject to following eligibility conditions.</p> <p>(a) The renewable energy generation projects shall supply electricity to user(s), either grid or a specific identified user. The project activity will displace electricity from an electricity distribution system that is or would have been supplied by from a national or a regional grid (grid hereafter); the following renewable energy generation technologies qualify under this methodology: (i) Solar Photovoltaic; (ii) On-shore or Off-shore Wind; (iii) Tidal; (iv) Wave</p>	<p>This criterion is applicable, as the project employs Solar Photovoltaic power generation technology and supply generated electricity to Indian Grid.</p>	<p>The project activity involves the installation of 175 MW Solar Photovoltaic Panels. The same is a bundled project involving 5 project activities as detailed in section D.2 above.</p> <p>The electricity thus generated from project activity is exported to the Indian grid in India through power purchase agreements (PPA) with /5/, thereby displacing electricity from the regional grid generated by fossil fuel-based power plants.</p> <p>CCPIL project verification team has confirmed the same from the power purchase agreement /5/, as well as the commissioning certificates /8/. The said criterion is fulfilled by the project activity and hence the methodology</p>
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			is applicable to the project activity.
	(b) The project activities can also involve setting up and implementation of a BESS along with the renewable energy generation plant.	Not applicable as the project activity doesn't involve setting up and implementation of a BESS.	<p>The project activity involves the installation of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity.</p> <p>The project activity design does not involve setting up of battery energy storage systems (BESS). CCPIL project verification team confirmed the same during the onsite visit /30/.</p> <p>Hence this condition is not applicable to the project activity.</p>
	(c) The project activity wherein a BESS has been deployed, can either be a greenfield installation wherein the BESS had been conceptualized along with the renewable energy generation unit or may be retrofitted into an existing setup of renewable energy project, whether or not registered with GCC.	Not applicable as the project activity didn't deploy a BESS.	<p>The project activity involves the installation of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity.</p> <p>The project activity design does not involve setting up of battery energy storage systems (BESS). CCPIL project verification team confirmed the same during the onsite visit /30/.</p> <p>Hence this condition is not applicable to the project activity.</p>
(d) In case the Project Owners want to claim carbon credits due to retrofit of BESS into existing renewable energy generation unit, they would need to demonstrate that	Not applicable as the project activity didn't deploy a BESS.	The project activity involves the installation of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity.	

	<p>historically the renewable energy unit was subject to curtailed output due to low grid stability or capacity limitation³ in the grid infrastructure for handling the increased generation. This must be through evidence of existence of technical and regulatory/commercial constraints.</p>		<p>The project activity design does not involve setting up of battery energy storage systems (BESS). CCPIL project verification team confirmed the same during the onsite visit /30/.</p> <p>Hence this condition is not applicable to the project activity.</p>
	<p>(e) The project activities shall not involve combined heat and power (co-generation) systems.</p>	<p>This criterion is applicable as project activity generates electricity only and does not involve combined heat and power (co-generation) system.</p>	<p>The project activity involves the installation of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity.</p> <p>The project activity design does not involve combined heat and power (co-generation) system. CCPIL project verification team confirmed the same during the onsite visit /30/.</p> <p>Hence this condition is not applicable to the project activity.</p>
	<p>(f) The project activities shall not involve co-firing of fossil fuel of any kind.</p>	<p>This criterion is applicable as the project does not involve co-firing of fossil fuel of any kind.</p>	<p>The project activity involves the installation of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity.</p> <p>The project activity design does not involve co-firing of fossil fuel of any kind. CCPIL project verification team confirmed the same during the onsite visit /30/.</p> <p>Hence this condition is</p>

			not applicable to the project activity.
	(g) The project activities may have consumption of electricity (grid on on-site generation) for site offices.	This criterion is applicable as project may have consumption of electricity (grid on onsite generation) for site offices during maintenance and night time.	<p>The project activity involves the installation of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity.</p> <p>The project activity does consume electricity at the site office during maintenance. CCPIL project verification team confirmed the same during the onsite visit /30/, interviews with site personnel/30/ as well as from the records maintained for onsite electricity consumption/11/.</p> <p>Hence this condition is applicable to the project activity.</p>
	(h) Distributed Power Plants DPPs that supply electricity also for domestic, commercial or industrial captive purposes either wholly or in addition to supply to grid, shall demonstrate that grid connection was available on the site before the implementation of project activity.	Not applicable as project is a Utility scale power plant (USPP).	<p>The project activity involves the installation of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity.</p> <p>CCPIL project verification team confirmed the same during the onsite visit /30/.</p> <p>As the project activity is a Utility scale power plant (USPP), which can be confirmed from the PPA /5/ and commissioning documents /8/, the said condition is not applicable.</p>
	(i) Under no condition	Not applicable as the	The project activity involves the installation

	<p>would the battery storage system (BESS) be charged from the grid except in case of emergency situations like deep discharge or exceptional operational situations due to requirements from regulatory authorities in order to safeguard the safety and operational integrity of the connected grid system. BESS which consumes grid power or fossil fuel-based captive power for auxiliary load associated with BESS setup and employ cooling and/or fire suppression systems based on refrigerants or clean agents with the global warming potential (e.g. Hydrofluorocarbon (HFC) or Chlorofluorocarbon (CFC)) are not included under this methodology.</p>	<p>project activity didn't deploy a BESS.</p>	<p>of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity.</p> <p>The project activity does not deploy a battery energy storage system (BESS). CCPIL project verification team confirmed the same during the onsite visit /30/.</p> <p>Hence this condition is not applicable to the project activity.</p>									
	<table border="1"> <thead> <tr> <th data-bbox="486 1160 852 1283"> Tool 01: Tool for the demonstration and assessment of additionality; Version 7.0 </th> <th data-bbox="863 1160 1145 1283"> Justification in the PSF </th> <th data-bbox="1145 1160 1479 1283"> Project verifier Assessment </th> </tr> </thead> <tbody> <tr> <td data-bbox="486 1283 852 1805"> <p>Paragraph 9 states that:</p> <p>The use of the “Tool for the demonstration and assessment of additionality” is not mandatory for project participants when proposing new methodologies. Project participants 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> </td> <td data-bbox="863 1283 1145 1805"> <p>Since the applied methodology is not a new methodology, the project proponent has applied this tool for the demonstration of additionality in compliance with the tool. Refer to section B.5 of the PSF for the detailed applicability of this tool and additionality assessment. Hence this tool is applicable</p> </td> <td data-bbox="1145 1283 1479 1805"> <p>The project activity applies an approved GCC methodology i.e. GCCM001 “Methodology for Renewable Energy Generation Projects Supplying Electricity to Grid or Captive Consumers”, version 3.0 /B02/ and no new methodology is proposed.</p> <p>Hence this condition is applicable to the project activity.</p> </td> </tr> <tr> <td data-bbox="486 1805 852 2022"> <p>Paragraph 10 states that:</p> <p>Once the additionally tool is included in an approved methodology, its application by project participants using this methodology is</p> </td> <td data-bbox="863 1805 1145 2022"> <p>In line with the methodology requirement, Project developer has applied this tool for the demonstration of additionality</p> </td> <td data-bbox="1145 1805 1479 2022"> <p>The said tool is included in the applied methodology GCCM001, version 3.0 /B02/.</p> <p>Hence, this condition is found to be met.</p> </td> </tr> </tbody> </table>	Tool 01: Tool for the demonstration and assessment of additionality; Version 7.0	Justification in the PSF	Project verifier Assessment	<p>Paragraph 9 states that:</p> <p>The use of the “Tool for the demonstration and assessment of additionality” is not mandatory for project participants when proposing new methodologies. Project participants 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>Since the applied methodology is not a new methodology, the project proponent has applied this tool for the demonstration of additionality in compliance with the tool. Refer to section B.5 of the PSF for the detailed applicability of this tool and additionality assessment. Hence this tool is applicable</p>	<p>The project activity applies an approved GCC methodology i.e. GCCM001 “Methodology for Renewable Energy Generation Projects Supplying Electricity to Grid or Captive Consumers”, version 3.0 /B02/ and no new methodology is proposed.</p> <p>Hence this condition is applicable to the project activity.</p>	<p>Paragraph 10 states that:</p> <p>Once the additionally tool is included in an approved methodology, its application by project participants using this methodology is</p>	<p>In line with the methodology requirement, Project developer has applied this tool for the demonstration of additionality</p>	<p>The said tool is included in the applied methodology GCCM001, version 3.0 /B02/.</p> <p>Hence, this condition is found to be met.</p>		
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	mandatory.	assessment. Hence this tool is applicable.	
	Tool 07: Tool to calculate the emission factor for an electricity system; Version 7.0	Justification in the PSF	Project Verifier Assessment
	<p>Paragraph 3 states that:</p> <p>This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity that is where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been provided by the grid (e.g., demand-side energy efficiency projects).</p>	<p>This condition is applicable. OM, BM and CM are estimated using the Tool under section B.6.1 for calculating baseline Emissions.</p>	<p>The project activity involves the installation of a new grid- connected renewable power generation facility i.e. installation of solar PV panels to generate electricity which is then supplied to the Indian Grid.</p> <p>In the absence of this project activity, same amount of electricity would have been generated by the operation of existing/proposed grid connected power plants, predominantly fossil fuel-based.</p> <p>The baseline emissions are calculated from electricity supplied to the grid by the project activity multiplied with emission factor of the Indian grid, which is calculated using OM, BM and CM using this tool. The same has been elaborated upon in section D.3.6 of this report.</p> <p>Hence this condition is applicable to the project activity and found to be met.</p>
	<p>Paragraph 4 states that:</p> <p>Under this tool, the emission factor for the project electricity system can be calculated either for grid power plants only or, as an</p>	<p>The project activity is a grid Connected solar Power project. Estimation of OM & BM has been prepared and</p>	<p>The project activity has chosen the option to calculate the emission factor for grid power plants only by referring to the data published by CEA /17/. This confirms</p>

	<p>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.</p>	<p>published In India by the Central Electricity Authority (CEA), Government of India, and accordingly the same has been used. The latest CO₂ Baseline Database for the Indian Power Sector, Version 17, October 2021, published by Central Electricity Authority (CEA), Government of India has been used for the calculation of emission factor. The above CO Baseline Database follows the "Tool to calculate the emission factor for an electricity system" Version 07.0,.</p>	<p>that only grid connected power plants have been considered for OM, BM and CM calculations and is found to be acceptable by the project verification team.</p> <p>The point has been assessed in detail under section D.3.6 of the report.</p>
	<p>Paragraph 5 states that:</p> <p>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.</p>	<p>No portion of the Project Electricity system (i.e. Indian Grid) is in an Annex I country.</p>	<p>The project activity is situated in India, which is not Annex I country, hence the condition is not applicable. The same can be confirmed from UNFCCC website (https://unfccc.int/process/parties-non-party-stakeholders/parties-convention-and-observer-states?field_parties_date_of_ratifi_value=All&field_parties_date_of_signatures_date_of_ratifi_value_1=All&field_parties_date_of_signature_value_1=All&combine=)</p>
	<p>Paragraph 6 states that:</p> <p>Under this tool, the value applied to the CO₂ emission</p>	<p>No biofuels are used.</p>	<p>The project activity involves the installation of a new grid- connected</p>

	<p>factor of biofuels is zero.</p>		<p>renewable power generation facility i.e. installation of solar PV panels to generate electricity and does not involve biofuels. The same was confirmed from power purchase agreement/5/ and site visit /30/.</p> <p>Hence the condition is not applicable.</p>
	<p>TOOL 27: Investment analysis; Version 12.0</p>	<p>Justification in the PSF</p>	<p>Project verifier Assessment</p>
	<p>Paragraph 2 states that</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”, the guidelines “Non-binding best practice examples to demonstrate additionality for SSC project activities”, or baseline and monitoring methodologies that use the investment analysis for the demonstration of additionality and/or the identification of the baseline scenario.</p>	<p>Project activity applies “Tool for the demonstration and assessment of additionality”. Hence this tool is applicable.</p>	<p>The project activity utilises the methodological tool “Tool 01: Tool for the demonstration and assessment of additionality”, version 07 /B04/.</p> <p>Hence this condition is applicable to the project activity and found to be met.</p>
<p>Paragraph 3 states that:</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>Not applicable The applied approved baseline and monitoring methodology does not contain requirements for the investment analysis that are different from those described in this methodological tool. Hence, not applicable</p>	<p>The applied methodology, GCCM001 version 3.0 /B02/ does not contain requirements for investment analysis which are different from that specified in the tool.</p> <p>Hence the condition is not applicable.</p>	

	TOOL 24: Common Practice; Version 3.1	Justification in the PSF	Project verifier Assessment
	<p>Paragraph 3 states that:</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”, or baseline and monitoring methodologies that use the common practice test for the demonstration of additionality.</p>	<p>Project activity applies “Tool for the demonstration and assessment of additionality”. Hence this tool is applicable.</p>	<p>The project activity utilises the methodological tool “Tool 01: Tool for the demonstration and assessment of additionality”, version 07 /B04/.</p> <p>Hence this condition is applicable to the project activity and found to be met.</p>
	<p>Paragraph 4 states that:</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>Not applicable The applied approved baseline and monitoring methodology does not define any different approaches for the conduction of the common practice test from those described in this methodological tool.</p>	<p>The applied methodology, GCCM001 version 3.0 /B02/ does not contain approaches for conducting common practice test which are different from that specified in the tool.</p> <p>Hence the condition is not applicable.</p>
<p>The applied baseline and monitoring methodology and relevant tools are valid and applicable to the project activity. The project fulfils all relevant criteria of the applied methodology ‘GCCM001: Methodology for Renewable Energy Generation Projects Supplying Electricity to Grid or Captive Consumers’ – Version 3.0 /B02/ and Tool to calculate the emission factor for an electricity system; (Version 7.0) /B05/. Hence, use of the selected methodology is appropriate for this project activity</p>			

D.3.2 Clarification on applicability of methodology, tool and/or standardized baseline

Means of Project Verification	DR, I
Findings	No findings pertaining to this section.
Conclusion	No further clarifications were sought as the applicability criteria of methodology, and the associated tools was found to be fulfilled.

D.3.3 Project boundary, sources and GHGs

Means of Project Verification	DR, I
Findings	CAR 04 was raised and closed successfully. Please refer to Appendix 4 for further details.

Conclusion	<p>As per §12 of the applied methodology GCCM001, version 3.0 /B02/, the project boundary is stated as <i>“The spatial extent of the project boundary includes the project power plant, BESS (where deployed) and all power plants connected physically to the electricity system that the GCC project power plant or distributed type power generation devices are connected to”</i>.</p> <p>Section B.3 of the PSF /01-b/ clearly depicts the project boundary along with a pictorial representation. The verification team conducted desk review of the implemented project to confirm the appropriateness of the project boundary identified and the same was found to be in conformity with the applied methodology. Furthermore, the physical boundary of the project activity identified by the project owner has been cross-verified during site visit /30/ and duly verified from the commissioning reports /8/ and power purchase agreement /5/. The same was found to be appropriate and acceptable.</p> <p>The verification team also confirmed that all GHG sources required by the methodology have been included within the project boundary. It was assessed that no emission sources related to project activity will cause any deviation from the applicability of the methodology or accuracy of the emission reductions.</p> <p>The verification team therefore confirms that the identified boundary and the selected emissions sources are justified for the project activity.</p>
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D.3.4 Baseline scenario

Means of Project Verification	DR, I
Findings	CAR 05 was raised and closed successfully. Please refer to Appendix 4 for further details.
Conclusion	<p>As per §13 of the applied methodology GCCM001, version 3.0 /B02/, the baseline scenario is the electricity delivered to the grid by the project activity that otherwise would have been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid.</p> <p>The Project activity involves generation of electricity by harnessing solar radiation energy and selling it to the Indian grid. The same was confirmed through the power purchase agreement /5/ and commissioning reports /8/. In the absence of this project activity, same amount of electricity would have been generated by the operation of existing/proposed grid connected power plants, predominantly fossil fuel-based.</p> <p>The verification team confirms that all assumptions and data used by the project participants are listed in the PSF /1/, including their references and sources. All relevant national and/or sectoral policies and circumstances are considered and listed in the PSF /1-b/. Furthermore, the verification team also concludes that the identified baseline scenario reasonably represents what would occur in the absence of the project activity.</p> <p>The baseline scenario in the PSF/1/ is reported as the supply of electricity to grid and thereby displacement of electricity from the electricity distribution system connected to the Indian Grid. The baseline scenario applied in the PSF /1/ was compared with the requirements of the baseline described in the applied methodology /B02/ and found to be consistent. Therefore, the verification team also concludes that the identified baseline scenario reasonably represents what would occur in the absence of the project activity and is found to be acceptable.</p>

D.3.5 Demonstration of additionality

Means of Project Verification	DR, I
Findings	CL 06 and CAR 06 were raised and closed successfully. 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 /B01-1/ and the applied methodology GCCM001, version 3.0 /B02/ and relevant methodological tools.</p> <p>In section B.5 of the PSF /1-b/, two components are applied for the demonstration of additionality:</p> <ul style="list-style-type: none"> - A Legal Requirement Test - Additionality Test <p><u>Legal Requirement:</u></p> <p>The project activity is a Type A project and requires undergoing a Legal Requirement Test. The relevant national acts and regulations pertaining to generation of energy in the host country i.e., India are Electricity Act 2003/B13/, National Electricity Policy 2005/B14/, National Tariff Policy 2006/B15/, National Solar Mission /B18/, National Action Plan on Climate Change (NAPCC) 2008/B16/, and Renewable Energy Certificates (RECs) 2011 /B17/ which are verified by the assessment team.</p> <p>It was confirmed that there are no enforced laws, statutes, regulations, court orders, environmental-mitigation agreements, permitting conditions or other legally binding mandates requiring its implementation, or requiring the implementation of a similar technology/measure that would achieve equivalent levels of GHG emission reductions. The assessment team assessed the relevant regulations of the host county to confirm the requirements and also confirmed based on the local expertise by the verification team the project is not implemented to meet any legal requirement.</p> <p>The project activity is therefore voluntary in nature and hence is additional as per § 46 of GCC Project Standard V3.1 /B01-1/ and passes the legal requirement test.</p> <p>Additionality is demonstrated at the project activity level for the bundled project. Accordingly, common practice analysis is also demonstrated at project activity level. This is in accordance with §7 and §20 of GCC Clarification No. 1 version 1.3 /B01-6/.</p> <p><u>Additionality Test:</u></p> <p>To cover this requirement from the GCC Project Standard 3.1 /B01-1/, section 6.4.8, paragraph 45 and as per the applied methodology GCCM001 Version 3.0 /B02/, additionality of the project activity is demonstrated and assessed using the latest version of Tool 01: Tool for the demonstration and assessment of additionality” Version 7.0 /B04/</p> <p>The PO has adopted the stepwise approach for demonstrating and assessing the additionality of the project activity as follows:</p> <p>Step 0: Demonstration whether the proposed project activity is the first-of-its-kind</p> <p>The project activity is a grid connected solar power project in India. This is not the</p>

	<p>first such project to be installed in the country and therefore project activity does not meet this criterion.</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</p> <p>Alternative 1: The proposed project activity not undertaken as a GCC project activity. Alternative 2: Continuation of the present situation, i.e., the power generated from the project activity will be fed into India National Grid.</p> <p>Sub-step 1b: Consistency with mandatory laws and regulations</p> <p>Both the alternatives are consistent with the laws and regulations of India. The environmental regulations, legislations and policy guidelines in respect to the project activity are governed by various regulatory agencies. The principal environmental regulatory agency in India is Ministry of Environment, Forest and Climate Change (MoEF &CC), Delhi supported by Central Pollution Control Board (CPCB).</p> <p>The Solar Power Projects are not covered under the ambit of EIA Notification, 2006. Hence, it does not require preparation of Environmental Impact Assessment Report and pursuing Environmental Clearance from Ministry of Environment, Forest and Climate Change (MoEF & CC). (Annexure-II MOEF&CC, OM on J-11013/41/2006-IA. II (I) dated 7th July 2017)</p> <p>Further, MoEF & CC has included Solar Power Projects under “White category” for Consent to Establish/Operate. Newly introduced White category contains 36 industrial sectors which are practically non-polluting. There shall be no necessity of obtaining the Consent to Establish/Operate for White category of industries and an intimation to concerned SPCB / PCC shall suffice. In accordance with the requirement of the Modified directions under section 18(1)(b) of the Water (P&PC) Act, 1974 and the Air (P & PC) Act, 1981 regarding harmonization of classification of industrial sectors under red/ orange/ green/ white categories by the CPCB/26/, acknowledgement of Letter to PCB for White Category Industry/26/ received by the PO was checked and found to be acceptable.</p> <p>Step 2: Investment analysis for M/s RT Renewable Energy India Pvt. Ltd: 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 following sections as per “Investment analysis” (Version 12.0) /B07/.</p> <p>The project activity is implemented under order no. 7 of 2014, dated 12/09/2014 as stated in the Power Purchase Agreement (PPA) /5/. This is considered as the investment decision date for the project proponent to start the project implementation despite inherent financial barriers. The additionality has been established using the data available at the time of investment decision which is mainly CERC RE tariff order dated 15/05/2014 /31/.</p> <p>Sub-step 2a: Determine appropriate analysis method Since project activity generates revenue, Option III - Benchmark Analysis has been chosen to carry out investment analysis.</p> <p>Sub-step 2b: Option III. Apply benchmark analysis Since the project is funded through equity and debt funds, Post Tax Equity IRR has</p>
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	<p>been considered an appropriate financial indicator which will be tested against an appropriate benchmark cost of equity.</p> <p>These indicators are industry accepted indicators and are commonly used for financial analysis of similar kinds of projects.</p> <p>In line with para 16 of investment analysis /B07/, as the investment analysis is carried out in nominal terms and the available IRR benchmarks are in real terms, therefore, project owner has converted the real term values of benchmarks to nominal values by adding the inflation rate.</p> <p>As per para 19 of investment analysis, the cost of equity is determined by selecting the values provided in the Appendix, i.e., Default values for cost of equity (expected return on equity) is presented below:</p> <p>The Required return on equity (benchmark) was computed in the following means:</p> <p>Nominal Benchmark = $\{(1+\text{Real Benchmark}) * (1+\text{Inflation rate})\} - 1$</p> <p>Where:</p> <ul style="list-style-type: none"> - Default value for Real Benchmark = 9.77%, as per TOOL27, version 12.0, which is the latest version available at the time of preparation of PSF - Inflation Rate forecast for by Reserve Bank of India (RBI) i.e., Central Bank of India. <p>TOOL27, version 12.0 specifies default value of expected return on equity in real terms for Energy Industries (Group 1) in India = 9.77%</p> <p>As per RBI report “Survey of Professional forecasters” dated 05/08/2014 /32/, the latest report available at the time of decision making, the 10-year inflation forecast projected was 5.3%.</p> <p>Therefore, Benchmark is calculated as $\{(1+9.77\%) * (1+5.3\%)\} - 1 = \mathbf{15.59\%}$</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 /3/ provided by the PO. All assumptions and estimates used for input values were checked against the relevant sources.</p> <p>GCC project activity has a less favourable Equity IRR compared to the benchmark, and hence the GCC project activity cannot be considered as financially attractive.</p> <p>The key data parameters used to calculate Equity IRR M/s RT Renewable Energy India Pvt. Ltd are tabulated below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="text-align: center;">Parameter</th> <th style="text-align: center;">Value</th> <th style="text-align: center;">Project verifier assessment</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Capacity</td> <td style="text-align: center;">15 MW</td> <td>The project rated capacity i.e. 15 MW is based on the commissioning reports /8/ and found to be consistent and thus acceptable. The same was further confirmed from the purchase order /10/ as well as the PPA /5/.</td> </tr> </tbody> </table>	Parameter	Value	Project verifier assessment	Capacity	15 MW	The project rated capacity i.e. 15 MW is based on the commissioning reports /8/ and found to be consistent and thus acceptable. The same was further confirmed from the purchase order /10/ as well as the PPA /5/.
Parameter	Value	Project verifier assessment					
Capacity	15 MW	The project rated capacity i.e. 15 MW is based on the commissioning reports /8/ and found to be consistent and thus acceptable. The same was further confirmed from the purchase order /10/ as well as the PPA /5/.					

			Installed capacity proposed at the time of decision making (i.e. internal management decision) and post decision making (actual implementation) is same and therefore found to be appropriate to the verification team.
	PLF	19.00%	<p>Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same is equivalent to the PLF offered by the technology provider and is found to be acceptable.</p> <p>To further cross-check the robustness of the PLF, verification team has cross-checked the actual generation of the project activity to ascertain the conformity of the estimated PLF to the actual and observed that the generation yielded a PLF of 21.23% /11/. This is slightly higher than the input value. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.</p>
	Annual generation	24,966 MWh	<p>The value is calculated as: Capacity * PLF * 8760 = 15 MW * 19% * 8760 h = 24,966 MWh.</p> <p>The input values used in calculation were available at the time of investment decision making.</p> <p>The actual PLF since the start of operation of the project activity is 21.23% /11/ and therefore the annual average generation value comes to 27,896 MWh which is more than the input value used for IRR analysis. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.</p>
	Revenue & Expenses		
Power tariff	6.95 INR/kWh	<p>The Value is based on the CERC RE tariff order 2014-15 /31/ which was available at the time of investment decision making date and is deemed acceptable to the project verification team.</p> <p>The project activity exports the entire power generated to DISCOM at a fixed tariff ₹7.01/kWh (based on PPA</p>	

			/5/). The same was also crosschecked with the sample invoices /13/ and found to be consistent and therefore, acceptable to the verification team.
	Annual degradation during 1st year (%)	2.50%	The value considered is based on standard performance warranty by the PV module manufacturers (data modules) /6/.
	Annual degradation from 2nd year till 10 th year (%)	0.83%	Based on the data module sheet for the PV modules /6/: Annual degradation from 2 nd year till 10 th year: $(97.5-90)/9= 0.83$
	Annual degradation from 11th year till 25 th year (%)	0.67%	Annual degradation from 11th year till 25th year: $(90-80)/15=0.67$ The percentage of annual degradation is therefore considered appropriate for the project activity.
	O & M cost	21.22 million	INR Value is based on CERC RE tariff order dated 15/05/2014 /31/ and found to be consistent and thus acceptable. According to the said order, O&M expense norm for solar PV power project as ` 12.30 Lakh/MW for FY 2014-15 has been considered. This is also inclusive of the service tax of 15% applicable during FY 2014-15. This is deemed acceptable to the verification team.
	Escalation in O&M expenses p.a.	5.72%	Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same was further checked against the purchase order /10/ and found to be consistent and thus acceptable.
	Project cost and financing structure		
	Project cost	1036.50 million	INR The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the capital cost norm for FY 2014-15 is INR 691 Lakh/MW for Solar PV Power Projects. The project cost for IRR analysis is calculated as $69.1 \text{ INR million} * 15\text{MW} = 1036.50 \text{ INR Million}$. According to the loan sanction letter /14/, the project cost is 1460.00 INR million which is higher than the input value. Though the project cost is higher than the input value, the

			<p>project is additional, and it is deemed acceptable.</p> <p>The actual project cost for the project activity is 1429.3 INR million /33/ which is higher than the input value for IRR analysis, but the project remains additional based on the IRR calculated using actual values /3/. Therefore, this is deemed acceptable to the verification team.</p>	
	Loan Amount	725.55 million	INR	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). Therefore, the loan amount considered for IRR calculations is 70% of the project cost which is deemed acceptable to the project verification team.</p> <p>According to the loan sanction letter /14/, the loan amount is 60% of the project cost i.e., 870 INR million. The value is in the similar range and does not make the project non-additional and hence, acceptable to the verification team.</p>
	Equity investment	310.95 million	INR	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. The value is equivalent to 30% of the total project cost which is deemed acceptable to the project verification team.</p> <p>Actual Equity investment is calculated as the difference between the actual project cost and the loan amount i.e., $1429.3 - 870 = 559.3$ INR million</p>
	Interest rate on loan	12.70%		<p>The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). This is</p>

			<p>deemed acceptable to the project verification team.</p> <p>According to the loan sanction letter /14/, the applicable interest rate is 11.50% p.a. post perfection of security, payable on monthly basis. The value is in the similar range and does not make the project non-additional and hence, acceptable to the verification team.</p>
	Loan Tenure	48 Quarters	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the loan tenure of 12 years is to be considered for the purpose of determination of tariff for RE projects. This is deemed acceptable to the project verification team.</p> <p>According to the loan sanction letter /14/, the loan tenure is 65 Quarters (16.25 years)</p>
	Book Depreciation (SLM)		
	Salvage Value (%)	10.00	<p>Salvage value is considered as 10% of the total project cost (excluding cost of land lease, erection and commissioning charges as well as transportation charges) as per the CERC tariff order dated 15/05/2014 /31/. These have been added back to the cash flow. Land cost is not considered in IRR calculations as the said order does not specify it separately, which is deemed acceptable to the project verification team. PO considered 10% of cost of plant and machinery (solar plant) as residual (salvage) value for the project activity conservatively).</p> <p>This is further validated as per the accounting practises and same has been also cross checked from Schedule II of the Companies Act 2013 /B19/ which allows 95% of original cost to be depreciated implying a consideration of 5% as salvage value as a standard accounting practice.</p> <p>Thus, the consideration by the PO of 10% salvage value is conservative and hence appropriate for the project activity.</p>
IT Depreciation (SLM)	7.69%	As Per Income Tax, Depreciation rates for power generating units.	

		http://www.incometaxindia.gov.in/charts%20%20tables/depreciation%20rates.htm
		The verification team found that the value is acceptable in accordance with the accounting principles of the host country.
Income tax rate (%)	30.00%	Values are based on tax rates notified by the Government of India for the said FY 2014-2015 (year in which decision was taken). The values are verified from the following links: https://taxguru.in/income-tax/income-tax-rate-chart-assessment-year-201516-financial-year-201415.html
MAT (%)	18.50%	
Service Tax (%)	15.00%	
Surcharge (%) -Rs. 10 to Rs. 100 m.	5.00%	
Surcharge (%) -Rs. Over Rs. 100 m.	10.00%	
Education cess (%)	3.00%	https://taxguru.in/service-tax/service-tax-rate-increased-1236-14-subsuming-ec-shec-effective-01062015.html

The input values of the parameters involved in the investment analysis have been crosschecked against each of the evidence provided by the project owner and all the values were found to be applicable/relevant at the time of the investment decision and or project activity scenario.

Post tax Equity IRR i.e., 7.48% is less than Cost of Equity i.e., 15.59% and therefore renders the project activity financially non-feasible.

Sub-step 2d: Sensitivity analysis

As per Tool 27, version 12, variables, including the initial investment cost, that constitute more than 20% of either total project costs or total project revenues should be subjected to reasonable variation. The Guidance on Assessment of Investment Analysis requires the robustness of the conclusion arrived at to be proved through a sensitivity analysis by varying the critical assumptions to a reasonable variation ($\pm 10\%$). The project developer has identified PLF, project cost, and electricity tariff as critical assumptions. O& M cost does not constitute more than 20% of total project cost and hence not considered for sensitivity analysis. The sensitivity analysis reveals that even under more favourable conditions, the equity IRR would not cross the benchmark return as given in the following table:

Parameter	-10%	0	+10%	Breaching value
PLF	4.90%	7.48%	10.09%	28.50%
Electricity tariff Rate	4.90%	7.48%	10.09%	28.50%
Project Cost	9.74%	7.48%	5.71%	-26.00%

In conclusion, the equity IRR (after tax) will not reach the benchmark of 15.59% within the reasonable fluctuation range of +/-10% of the key financial parameters.

	<p>The project verification team has cross-checked all the input values and calculations which are found to be correct and in accordance with Tool 27, version 12 /B07/.</p> <p>The verification team carried out its own an independent assessment on the likelihood of the equity IRR breaching the benchmark and this assessment reveals that the project would become non additional only if:</p> <ul style="list-style-type: none"> • PLF goes up by 28.5% • Project cost goes down by 26% • Tariff increases by 28.5% <p>PP has submitted that such a reduction in project cost or increase in PLF / tariff is highly unrealistic and unlikely to happen for the following reasons:</p> <p><u>PLF</u>: Generation taken into consideration is equal to CERC recommended PLF. However, as per actual generation since COD, the PLF works out to only 21.23%. Hence, to get a PLF of 24.42% (which translates to a hike of 28.5%) on a sustained basis is highly hypothetical and unrealistic.</p> <p><u>Project cost</u>: Since the project activity is already operational since 2016, the cost incurred by the project owner is INR 1429.3 MN which is more than the assumed amount of INR 1036.5 MN. This represents firm cost and as such the question of any reduction in the cost is hypothetical.</p> <p><u>Tariff</u>:</p> <p>The PPA /5/ signed for a period of 25 years, mentions a tariff rate of INR 7.01/ kWh. The same was crosschecked with the sample invoices /13/ provided by the PO. It is therefore evident that the tariff rates have slightly increased compared to that assumed for the financial calculations. However, an increase of 28.5% over the current tariff is not feasible.</p> <p>The IRR calculated using actual values /3/ is 8.27% which does not reach the benchmark of 15.59% and remains additional.</p> <p>In conclusion, the post-tax equity IRR will not reach the benchmark of 15.59% within the reasonable fluctuation range of +/-10% of the key financial parameters. The project verification team has cross-checked all the input values and calculations which are found to be correct and in accordance with Tool 27, version 12 /B07/.</p> <p>Step 3: Barrier analysis PO has not applied barrier analysis.</p> <p>Step 4: Common practice analysis Common practice analysis for the project was conducted using CDM Tool 24, version 3.1) /B06/</p> <p>Sub-step 4a: The proposed project activity(ies) applies measure(s) that are listed in the definitions section above</p> <p>The project is a solar power generation project and adopts type (b) measure listed in the Methodological tool am-tool-24-v03.1 Common practice /B06/. The applicable geographical area is Tamil Nadu state of India.</p> <p>The state of Tamil Nadu is chosen as the applicable geographical area as against</p>
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	<p>the rest of the host country as the policy/tariff applicable for the renewable power projects is regulated by respective State Electricity Regulatory Commissions (SERCs) in accordance with the generic policy framed by the Central Electricity Regulatory Commission (CERC) and they differ from state to state. This is based on Electricity Act 2003, section 82 which clearly mentions “Every State Government shall, within six months from the appointed date, by notification, constitute for the purposes of this Act, a Commission for the State to be known as the (name of the State) Electricity Regulatory Commission” Appropriateness of the same has been checked and confirmed from the aforementioned act. (https://cercind.gov.in/Act-with-amendment.pdf).</p> <p>The investment climate for the renewable energy projects varies from State to State within India due to state specific local policy & regulatory framework as outlined by the State Electricity Regulatory Commissions of the respective state. Thus, consideration of the specific geographical area i.e. State of Tamil Nadu for the common practice analysis of the proposed project activity found to be reasonable and justified.</p> <p><i>Sub-step 4a-1: calculate applicable capacity or output range as +/-50% of the total design capacity or output of the proposed project activity.</i></p> <p>The applicable capacity calculated as +/-50% of total design capacity of proposed project activity was 7.5MW to 22.5MW, which was found to be in line with Tool 24/B06/.</p> <p><i>Sub-step 4a-2: identify similar projects (both CDM and non-CDM) which fulfil all of the following conditions:</i></p> <ul style="list-style-type: none"> (a) The projects are located in the applicable geographical area These fall in the applicable geographical location i.e., state of Tamil Nadu in India. (b) The projects apply the same measure as the proposed project activity These apply the same measure i.e., solar radiation based power generation. (c) The projects use the same energy source/fuel and feedstock as the proposed project activity, if a technology switch measure is implemented by the proposed project activity These use the same source of input energy i.e., solar. (d) The plants in which the projects are implemented produce goods or services with comparable quality, properties and applications areas (e.g. clinker) as the proposed project plant These produce the same goods/services i.e., electricity supplied to the connected grid. (e) The capacity or output of the projects is within the applicable capacity or output range calculated in Step 1 The capacity of these projects is in the range as defined in Step 1 i.e., 7.5 MW – 22.5 MW. (f) 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.
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	<p>The projects started commercial operations before the start date of proposed project activity i.e., 20/04/2015 (As per purchase order for equipment).</p> <p>There are 2 similar projects which satisfy all of the above conditions. The information on these projects is obtained from CEA notification on plant wise details of all India Renewable Energy Projects, dated 20/03/2023 /34/</p> <table border="1"> <thead> <tr> <th>Name of the Plant</th> <th>Installed Capacity (MW)</th> <th>Date of Commissioning</th> </tr> </thead> <tbody> <tr> <td>M/s. Apex Clothing Company India Ltd</td> <td>15.00</td> <td>1-Mar-2014</td> </tr> <tr> <td>M/s. Swelect Energy System Pvt Ltd</td> <td>10.00</td> <td>28-Mar-2014</td> </tr> </tbody> </table> <p>This mentions all the projects implemented before 20/04/2015 within the desired capacity range. This was crosschecked with the relevant source /34/ and found to be accurate.</p> <p>Sub-step 4a-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 validation. Note their number N_{all}.</p> <p>Among the identified projects, none of them are registered with a carbon scheme.</p> <p>Therefore, $N_{all} = 2$.</p> <p>Sub-step 4a-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>None of the projects identified above apply a different technology than the proposed project activity. Hence, $N_{diff} = 0$.</p> <p>Sub-step 4a-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 of the proposed project activity is calculated as follows:</p> $F = 1 - N_{diff}/N_{all} = 1 - (0/2) = 1$ $N_{all} - N_{diff} = 2-0=2$ <p>As per applied tool, the proposed project activity is a “common practice” within a sector in the applicable geographical area if the factor F is greater than 0.2 and $N_{all} - N_{diff}$ is greater than 3.</p> <p>For the proposed project, F is greater than 0.2, but $N_{all} - N_{diff}$ is not greater than 3, therefore, the project activity is not a common practice in the state of Tamil Nadu.</p> <p>The project verification team therefore concludes that as the project activity is not financially feasible and not a common practice, the project is additional.</p> <p>Step 2: Investment analysis for M/s SEI Phoebus Pvt. Ltd:</p>	Name of the Plant	Installed Capacity (MW)	Date of Commissioning	M/s. Apex Clothing Company India Ltd	15.00	1-Mar-2014	M/s. Swelect Energy System Pvt Ltd	10.00	28-Mar-2014
Name of the Plant	Installed Capacity (MW)	Date of Commissioning								
M/s. Apex Clothing Company India Ltd	15.00	1-Mar-2014								
M/s. Swelect Energy System Pvt Ltd	10.00	28-Mar-2014								

	<p>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 following sections as per “Investment analysis” (Version 12.0).</p> <p>The project activity is implemented under order no. 7 of 2014, dated 12/09/2014 as stated in the Power Purchase Agreement (PPA) /5/. This is considered as the investment decision date for the project owner to start the project implementation despite inherent financial barriers. The additionality has been established using the data available at the time of investment decision which is mainly CERC RE tariff order dated 15/05/2014 /31/.</p> <p>Sub-step 2a: Determine appropriate analysis method Since project activity generates revenue, Option III - Benchmark Analysis has been chosen to carry out investment analysis.</p> <p>Sub-step 2b: Option III. Apply benchmark analysis Since the project is funded through equity and debt funds, Post Tax Equity IRR has been considered an appropriate financial indicator which will be tested against an appropriate benchmark cost of equity.</p> <p>These indicators are industry accepted indicators and are commonly used for financial analysis of similar kinds of projects.</p> <p>In line with para 16 of investment analysis /B07/, as the investment analysis is carried out in nominal terms and the available IRR benchmarks are in real terms, therefore, project owner has converted the real term values of benchmarks to nominal values by adding the inflation rate.</p> <p>As per para 19 of investment analysis, the cost of equity is determined by selecting the values provided in the Appendix, i.e., Default values for cost of equity (expected return on equity) is presented below:</p> <p>The Required return on equity (benchmark) was computed in the following means:</p> $\text{Nominal Benchmark} = \{(1 + \text{Real Benchmark}) * (1 + \text{Inflation rate})\} - 1$ <p>Where:</p> <ul style="list-style-type: none"> - Default value for Real Benchmark = 9.77%, as per TOOL27, version 12.0, which is the latest version available at the time of preparation of PSF - Inflation Rate forecast for by Reserve Bank of India (RBI) i.e., Central Bank of India. <p>TOOL27, version 12.0 specifies default value of expected return on equity in real terms for Energy Industries (Group 1) in India = 9.77%</p> <p>As per RBI report “Survey of Professional forecasters” dated 05 August 2014 /32/, the latest report available at the time of decision making, the 10-year inflation forecast projected was 5.3%.</p> <p>Therefore, Benchmark is calculated as $\{(1 + 9.77\%) * (1 + 5.3\%)\} - 1 = \mathbf{15.59\%}$</p> <p>Sub-step 2c: Calculation and comparison of financial indicators For calculation of financial indicator, all relevant costs and revenues were found to be included in the IRR sheet /3/ provided by the PO. All assumptions and estimates used for input values were checked against the relevant sources.</p>
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	<p>GCC project activity has a less favourable Equity IRR compared to the benchmark, and hence the GCC project activity cannot be considered as financially attractive.</p> <p>The key data parameters used to calculate Equity IRR for M/s SEI Phoebus Pvt. Ltd are tabulated below:</p>		
	Parameter	Value	Project assessment Verifier
	Capacity	50 MW	<p>The project rated capacity i.e. 50 MW is based on the commissioning report /8/ and found to be consistent and thus acceptable. The same was further confirmed from the purchase order /10/ as well as the PPA /5/.</p> <p>Installed capacity proposed at the time of decision making (i.e. internal management decision) and post decision making (actual implementation) is same and therefore found to be appropriate to the verification team.</p>
	PLF	19.00%	<p>Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same is equivalent to the PLF offered by the technology provider and is found to be acceptable.</p> <p>To further cross-check the robustness of the PLF, verification team has cross-checked the actual generation of the project activity to ascertain the conformity of the estimated PLF to the actual and observed that the generation yielded a PLF of 21.74% /11/. This is slightly higher than the input value. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.</p>
Annual generation	83,220 MWh	<p>The value is calculated as: $Capacity * PLF * 8760 = 50 \text{ MW} * 19\% * 8760 \text{ h} = 83,220 \text{ MWh}$.</p>	

			<p>The input values used in calculation were available at the time of investment decision making.</p> <p>The actual PLF since the start of operation of the project activity is 21.74% /11/ and therefore the annual average generation value comes to 95,221 MWh which is more than the input value used for IRR analysis. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.</p>
	Revenue & Expenses		
	Power tariff	6.95 INR/kWh	<p>The Value is based on the CERC RE tariff order 2014-15 /31/ which was available at the time of investment decision making date and is deemed acceptable to the project verification team.</p> <p>The project activity exports the entire power generated to DISCOM at a fixed tariff ₹7.01/kWh (based on PPA /5/). The same was cross-checked with the sample invoices /13/ and found to be consistent and therefore, acceptable to the verification team..</p>
	Annual degradation during 1st year (%)	2.50%	<p>The value considered is based on standard performance warranty by the PV module manufacturers (data modules) /6/.</p>
	Annual degradation from 2nd year till 10 th year (%)	0.83%	<p>Based on the data module sheet for the PV modules /6/:</p> <p>Annual degradation from 2nd year till 10th year: $(97.5-90)/9= 0.83$</p> <p>Annual degradation from 11th year till 25th year: $(90-80)/15=0.67$</p> <p>The percentage of annual degradation is therefore considered appropriate for</p>

			the project activity.
	O & M cost	70.73 million INR	Value is based on CERC RE tariff order dated 15/05/2014 /31/ and found to be consistent and thus acceptable. According to the said order, O&M expense norm for solar PV power project as ` 12.30 Lakh/MW for FY 2014-15 has been considered. This is also inclusive of the service tax of 15% applicable during FY 2014-15. This is deemed acceptable to the verification team.
	Escalation in O&M expenses p.a.	5.72%	Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same was further checked against the purchase order /10/ and found to be consistent and thus acceptable.
	Project cost and financing structure		
	Project cost	3455 million INR	Value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the capital cost norm for FY 2014-15 is INR 691 Lakh/MW for Solar PV Power Projects. The project cost for IRR analysis is calculated as 69.1 INR million * 50MW = 3455 INR Million. According to the loan sanction letter /14/, the project cost is 4876.4 INR million which is higher than the input value. The actual project cost for the project activity is 4821.7 INR million /33/ which is higher than the input value for IRR analysis. Though the project cost is higher than the input value, the project remains additional, and it is deemed acceptable.
Loan Amount	2418.50 million INR	The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in	

			<p>respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). Therefore, the loan amount considered for IRR calculations is 70% of the project cost which is deemed acceptable to the project verification team.</p> <p>According to the loan sanction letter /14/, the loan amount is 65% of the project cost i.e., 3170 INR million. The value is in the similar range and does not make the project non-additional and hence, acceptable to the verification team.</p>
	Equity investment	1036.50 INR million	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. The value is equivalent to 30% of the total project cost which is deemed acceptable to the project verification team.</p> <p>Actual Equity investment is calculated as the difference between the actual project cost and the loan amount i.e., $4821.7 - 3170 = 1651.7$ INR million</p>
	Interest rate on loan	12.70%	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). This is deemed acceptable to the project verification team.</p> <p>According to the loan</p>

			sanction letter /14/, the applicable interest rate is 12.50% p.a. till COD and 12.25% p.a. post COD, payable on monthly basis. The value is in the similar range and does not make the project non-additional and hence, acceptable to the verification team.
	Loan Tenure	48 Quarters	The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the loan tenure of 12 years is to be considered for the purpose of determination of tariff for RE projects. This is deemed acceptable to the project verification team. According to the loan sanction letter /14/, the loan tenure is 67 Quarters.
	Book Depreciation (SLM)		
	Salvage Value (%)	10.00	Salvage value is considered as 10% of the total project cost (excluding cost of land lease, erection, and commissioning charges as well as transportation charges) as per the CERC tariff order dated 15/05/2014 /31/. These have been added back to the cash flow. Land cost is not considered in IRR calculations as the said order does not specify it separately, which is deemed acceptable to the project verification team. PO considered 10% of cost of plant and machinery (solar plant) as residual (salvage) value for the project activity conservatively. This is further validated as per the accounting practises and same has been also cross checked from Schedule II of the Companies Act 2013 /B19/ which allows 95% of original cost to be depreciated implying a consideration of 5% as salvage value as a standard accounting practice.

		Thus, the consideration by the PO of 10% salvage value is conservative and hence appropriate for the project activity.
		As Per Income Tax, Depreciation rates for power generating units. http://www.incometaxindia.gov.in/charts%20%20tables/depreciation%20rates.htm
IT Depreciation (SLM)	7.69%	The verification team found that the value is acceptable in accordance with the accounting principles of the host country.
Income tax rate (%)	30.00%	Values are based on tax rates notified by the Government of India for the said FY 2014-2015 (year in which decision was taken). The values are verified from the following links: https://taxguru.in/income-tax/income-tax-rate-chart-assessment-year-201516-financial-year-201415.html https://taxguru.in/service-tax/service-tax-rate-increased-1236-14-subsuming-ec-shec-effective-01062015.html
MAT (%)	18.50%	
Service Tax (%)	15.00%	
Surcharge (%) -Rs. 10 to Rs. 100 m.	5.00%	
Surcharge (%) -Rs. Over Rs. 100 m.	10.00%	
Education cess (%)	3.00%	
<p>The input values of the parameters involved in the investment analysis have been crosschecked against each of the evidence provided by the project owner and all the values were found to be applicable/relevant at the time of the investment decision and or project activity scenario. Post tax Equity IRR i.e., 7.57% is less than Cost of Equity i.e., 15.59% and therefore renders the project activity financially non-feasible.</p> <p>Sub-step 2d: Sensitivity analysis As per Tool 27, version 12, variables, including the initial investment cost, that constitute more than 20% of either total project costs or total project revenues should be subjected to reasonable variation. The Guidance on Assessment of Investment Analysis requires the robustness of the conclusion arrived at to be proved through a sensitivity analysis by varying the critical assumptions to a reasonable variation ($\pm 10\%$). The project developer has identified PLF, project cost, and electricity tariff as critical assumptions. O&M cost does not constitute more than 20% of total project cost and hence not considered for sensitivity analysis. The sensitivity analysis reveals that even under more favourable conditions, the equity IRR would not cross the benchmark return as given in the</p>		

following table:

Parameter	-10%	0	+10%	Breaching value
PLF	5.03%	7.57%	10.22%	29.00%
Electricity tariff Rate	5.03%	7.57%	10.22%	29.00%
Project Cost	9.85%	7.57%	5.83%	-26.50%

In conclusion, the equity IRR (after tax) will not reach the benchmark of 15.59% within the reasonable fluctuation range of +/-10% of the key financial parameters. The project verification team has cross-checked all the input values and calculations which are found to be correct and in accordance with Tool 27, version 12 /B07/.

The verification team carried out its own an independent assessment on the likelihood of the equity IRR breaching the benchmark and this assessment reveals that the project would become non-additional only if:

- PLF goes up by 29%
- Project cost goes down by 26.5%
- Tariff increases by 29%

PP has submitted that such a reduction in project cost or increase in PLF / tariff is highly unrealistic and unlikely to happen for the following reasons:

PLF: Generation taken into consideration is equal to CERC recommended PLF. However, as per actual generation since COD, the PLF works out to only 21.74%. Hence, to get a PLF of 24.51% (which translates to a hike of 29%) on a sustained basis is highly hypothetical and unrealistic.

Project cost: Since the project activity is already operational since 2016, the cost incurred by the project owner is INR 4821.7 MN which is higher than the assumed amount of INR 3455 MN. This represents firm cost and as such the question of any reduction in the cost is hypothetical.

Tariff:

The PPA /5/ signed for a period of 25 years, mentions a tariff rate of INR 7.01/ kWh. The same was crosschecked with the sample invoices /13/ provided by the PO. It is therefore evident that the tariff rate has slightly increased compared to that assumed for the financial calculations. However, an increase of 29% over the current tariff is not feasible.

The IRR calculated using actual values /3/ is 8.99% which does not reach the benchmark of 15.59% and remains additional.

In conclusion, the post-tax equity IRR will not reach the benchmark of 15.59% within reasonable fluctuation range of +/-10% of the key financial parameters. The project verification team has cross checked all the input values and calculations which are found to be correct and in accordance with Tool 27, version 12 /B07/.

	<p>Step 3: Barrier analysis PO has not applied barrier analysis.</p> <p>Step 4: Common practice analysis Common practice analysis for the project was conducted using CDM Tool 24, version 3.1) /B06/</p> <p>Sub-step 4a: The proposed project activity(ies) applies measure(s) that are listed in the definitions section above</p> <p>The project is a solar power generation project and adopts type (b) measure listed in the Methodological tool am-tool-24-v03.1 Common practice /B06/. The applicable geographical area is Tamil Nadu state of India.</p> <p>The state of Tamil Nadu is chosen as the applicable geographical area as against the rest of the host country as the policy/tariff applicable for the renewable power projects is regulated by respective State Electricity Regulatory Commissions (SERCs) in accordance with the generic policy framed by the Central Electricity Regulatory Commission (CERC) and they differ from state to state. This is based on Electricity Act 2003, section 82 which clearly mentions “Every State Government shall, within six months from the appointed date, by notification, constitute for the purposes of this Act, a Commission for the State to be known as the (name of the State) Electricity Regulatory Commission” Appropriateness of the same has been checked and confirmed from the aforementioned act. (https://cercind.gov.in/Act-with-amendment.pdf).</p> <p>The investment climate for the renewable energy projects varies from State to State within India due to state specific local policy & regulatory framework as outlined by the State Electricity Regulatory Commissions of the respective state. Thus, consideration of the specific geographical area i.e. State of Tamil Nadu for the common practice analysis of the proposed project activity found to be reasonable and justified.</p> <p>Sub-step 4a-1: calculate applicable capacity or output range as +/-50% of the total design capacity or output of the proposed project activity.</p> <p>The applicable capacity calculated as +/-50% of total design capacity of proposed project activity was 25 to 75 MW, which was found to be in line with Tool 24/B06/.</p> <p>Sub-step 4a-2: identify similar projects (both CDM and non-CDM) which fulfil all of the following conditions:</p> <ol style="list-style-type: none"> a) The projects are located in the applicable geographical area These fall in the applicable geographical location i.e., state of Tamil Nadu in India. b) The projects apply the same measure as the proposed project activity These apply the same measure i.e., solar radiation based power generation. c) The projects use the same energy source/fuel and feedstock as the proposed project activity, if a technology switch measure is implemented by the proposed project activity These use the same source of input energy i.e., solar. d) The plants in which the projects are implemented produce goods or services with comparable quality, properties and applications areas (e.g. clinker) as the proposed project plant These produce the same goods/services i.e., electricity supplied to the
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	<p>connected grid.</p> <p>e) The capacity or output of the projects is within the applicable capacity or output range calculated in Step 1 The capacity of these projects is in the range as defined in Step 1 i.e., 25 MW – 75 MW.</p> <p>f) 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. The projects started commercial operations before the start date of proposed project activity i.e., 05/05/2015 (As per purchase order for inverter)</p> <p>There are no similar projects which satisfy all of the above conditions.</p> <p>The source mentions all the projects implemented before 05/05/2015 within the desired capacity range /34/ and found to be accurate.</p> <p><i>Sub-step 4a-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 validation. Note their number N_{all}.</i></p> <p>There are no projects identified in the previous step. Therefore, $N_{all} = 0$.</p> <p><i>Sub-step 4a-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}.</i></p> <p>Since $N_{all} = 0$, $N_{diff} = 0$.</p> <p><i>Sub-step 4a-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.</i></p> <p>The factor of the proposed project activity is calculated as follows:</p> $F = 1 - N_{diff}/N_{all} = 1 - (0/0) = 1$ $N_{all} - N_{diff} = 0-0=0$ <p>As per applied tool, the proposed project activity is a “common practice” within a sector in the applicable geographical area if the factor F is greater than 0.2 and $N_{all} - N_{diff}$ is greater than 3.</p> <p>For the proposed project, F is greater than 0.2, but $N_{all} - N_{diff}$ is not greater than 3, therefore, the project activity is not a common practice in the state of Tamil Nadu.</p> <p>The project verification team therefore concludes that as the project activity is not financially feasible and not a common practice, the project is additional.</p> <p><i>Step 2: Investment analysis for M/s SEI Adhavan Power Pvt. Ltd:</i> 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 following</p>
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	<p>sections as per “Investment analysis” (Version 12.0).</p> <p>The project activity is implemented under order no. 7 of 2014, dated 12/09/2014 as stated in the Power Purchase Agreement (PPA) /5/. This is considered as the investment decision date for the project owner to start the project implementation despite inherent financial barriers. The additionality has been established using the data available at the time of investment decision which is mainly CERC RE tariff order dated 15/05/2014 /31/.</p> <p>Sub-step 2a: Determine appropriate analysis method Since project activity generates revenue, Option III - Benchmark Analysis has been chosen to carry out investment analysis.</p> <p>Sub-step 2b: Option III. Apply benchmark analysis Since the project is funded through equity and debt funds, Post Tax Equity IRR has been considered an appropriate financial indicator which will be tested against an appropriate benchmark cost of equity.</p> <p>These indicators are industry accepted indicators and are commonly used for financial analysis of similar kinds of projects.</p> <p>In line with para 16 of investment analysis /B07/, as the investment analysis is carried out in nominal terms and the available IRR benchmarks are in real terms, therefore, project owner has converted the real term values of benchmarks to nominal values by adding the inflation rate.</p> <p>As per para 19 of investment analysis, the cost of equity is determined by selecting the values provided in the Appendix, i.e., Default values for cost of equity (expected return on equity) is presented below:</p> <p>The Required return on equity (benchmark) was computed in the following means:</p> $\text{Nominal Benchmark} = \{(1 + \text{Real Benchmark}) * (1 + \text{Inflation rate})\} - 1$ <p>Where:</p> <ul style="list-style-type: none"> - Default value for Real Benchmark = 9.77%, as per TOOL27, version 12.0, which is the latest version available at the time of preparation of PSF - Inflation Rate forecast for by Reserve Bank of India (RBI) i.e., Central Bank of India. <p>TOOL27, version 12.0 specifies default value of expected return on equity in real terms for Energy Industries (Group 1) in India = 9.77%</p> <p>As per RBI report “Survey of Professional forecasters” dated 05 August 2014 /32/, the latest report available at the time of decision making, the 10-year inflation forecast projected was 5.3%.</p> <p>Therefore, Benchmark is calculated as $\{(1 + 9.77\%) * (1 + 5.3\%)\} - 1 = \mathbf{15.59\%}$</p> <p>Sub-step 2c: Calculation and comparison of financial indicators For calculation of financial indicator, all relevant costs and revenues were found to be included in the IRR sheet /3/ provided by the PO. All assumptions and estimates used for input values were checked against the relevant sources.</p> <p>GCC project activity has a less favourable Equity IRR compared to the benchmark, and hence the GCC project activity cannot be considered as financially attractive.</p>
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	The key data parameters used to calculate Equity IRR for M/s SEI Adhavan Power Pvt. Ltd are tabulated below:		
	Parameter	Value	Project assessment Verifier
	Capacity	50 MW	<p>The project rated capacity i.e. 50 MW is based on the commissioning report /8/ and found to be consistent and thus acceptable. The same was further confirmed from the purchase order /10/ as well as the PPA /5/.</p> <p>Installed capacity proposed at the time of decision making (i.e. internal management decision) and post decision making (actual implementation) is same and therefore found to be appropriate to the verification team..</p>
	PLF	19.00%	<p>Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same is equivalent to the PLF offered by the technology provider and is found to be acceptable.</p> <p>To further cross-check the robustness of the PLF, verification team has cross-checked the actual generation of the project activity to ascertain the conformity of the estimated PLF to the actual and observed that the generation yielded a PLF of 21.36% /11/. This is slightly higher than the input value. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team</p>
Annual generation	83,220 MWh	<p>The value is calculated as: $Capacity * PLF * 8760 = 50 \text{ MW} * 19\% * 8760 \text{ h} = 83,220 \text{ MWh}$.</p> <p>The input values used in calculation were available at</p>	

			<p>the time of investment decision making.</p> <p>The actual PLF since the start of operation of the project activity is 21.36% /11/ and therefore the annual average generation value comes to 93,556.8 MWh which is more than the input value used for IRR analysis. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.</p>
	Revenue & Expenses		
	Power tariff	6.95 INR/kWh	<p>The Value is based on the CERC RE tariff order 2014-15 /31/ which was available at the time of investment decision making date and is deemed acceptable to the project verification team.</p> <p>The project activity exports the entire power generated to DISCOM at a fixed tariff ₹5.10/kWh /5/. The same was cross-checked with the sample invoices /13/ by the verification team and therefore, acceptable to the verification team.</p>
	Annual degradation during 1st year (%)	2.50%	<p>The value considered is based on standard performance warranty by the PV module manufacturers (data modules) /6/.</p>
	Annual degradation from 2nd year till 10 th year (%)	0.83%	<p>Based on the data module sheet for the PV modules /6/:</p> <p>Annual degradation from 2nd year till 10th year: $(97.5-90)/9=0.83$</p>
	Annual degradation from 11th year till 25 th year (%)	0.67%	<p>Annual degradation from 11th year till 25th year: $(90-80)/15=0.67$</p> <p>The percentage of annual degradation is therefore considered appropriate for the project activity.</p>
O & M cost	70.73 million INR	Value is based on CERC RE tariff order dated 15/05/2014	

			<p>/31/ and found to be consistent and thus acceptable.</p> <p>According to the said order, O&M expense norm for solar PV power project as ` 12.30 Lakh/MW for FY 2014-15 has been considered. This is also inclusive of the service tax of 15% applicable during FY 2014-15. This is deemed acceptable to the verification team.</p>
	Escalation in O&M expenses p.a.	5.72%	<p>Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same was further checked against the purchase order /10/ and found to be consistent and thus acceptable.</p>
	Project cost and financing structure		
	Project cost	3455 million INR	<p>Value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the capital cost norm for FY 2014-15 is INR 691 Lakh/MW for Solar PV Power Projects. The project cost for IRR analysis is calculated as 69.1 INR million * 50MW = 3455 INR Million.</p> <p>According to the loan sanction letter /14/, the project cost is 5140.5 INR million which is higher than the input value.</p> <p>The actual project cost for the project activity is 5076.7 INR million /33/ which is higher than the input value for IRR analysis.</p> <p>Though the project cost is higher than the input value, the project remains additional, and it is deemed acceptable. Therefore, this is deemed acceptable to the verification team.</p>
Loan Amount	2418.50 million INR	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in respect of the RE projects</p>	

			<p>treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). Therefore, the loan amount considered for IRR calculations is 70% of the project cost which is deemed acceptable to the project verification team.</p> <p>According to the loan sanction letter /14/, the loan amount is 62% of the project cost i.e., 3170 INR million. The value is in the similar range and does not make the project non-additional and hence, acceptable to the verification team.</p>
	Equity investment	1036.50 INR million	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. The value is equivalent to 30% of the total project cost which is deemed acceptable to the project verification team.</p> <p>Actual Equity investment is calculated as the difference between the actual project cost and the loan amount i.e., $5076.7 - 3170 = 1906.7$ INR million</p>
	Interest rate on loan	12.70%	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). This is deemed acceptable to the project verification team.</p> <p>According to the loan sanction letter /14/, the</p>

			applicable interest rate is 12.25% p.a., payable on monthly basis. The value is in the similar range and does not make the project non-additional and hence, acceptable to the verification team.
	Loan Tenure	48 Quarters	The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the loan tenure of 12 years is to be considered for the purpose of determination of tariff for RE projects. This is deemed acceptable to the project verification team. According to the loan sanction letter /14/, the loan tenure is 54 Quarters.
	Book Depreciation (SLM)		
	Salvage Value (%)	10.00	<p>Salvage value is considered as 10% of the total project cost (excluding cost of land lease, erection, and commissioning charges as well as transportation charges) as per the CERC tariff order dated 15/05/2014 /31/. These have been added back to the cash flow. Land cost is not considered in IRR calculations as the said order does not specify it separately, which is deemed acceptable to the project verification team. PO considered 10% of cost of plant and machinery (solar plant) as residual (salvage) value for the project activity conservatively).</p> <p>This is further validated as per the accounting practises and same has been also cross checked from Schedule II of the Companies Act 2013 /B19/ which allows 95% of original cost to be depreciated implying a consideration of 5% as salvage value as a standard accounting practice.</p> <p>Thus, the consideration by</p>

		the PO of 10% salvage value is conservative and hence appropriate for the project activity.
		As Per Income Tax, Depreciation rates for power generating units. http://www.incometaxindia.gov.in/charts%20%20tables/depreciation%20rates.htm
	IT Depreciation (SLM)	7.69%
		The verification team found that the value is acceptable in accordance with the accounting principles of the host country.
	Income tax rate (%)	30.00%
	MAT (%)	18.50%
	Service Tax (%)	15.00%
	Surcharge (%) -Rs. 10 to Rs. 100 m.	5.00%
	Surcharge (%) -Rs. Over Rs. 100 m.	10.00%
	Education cess (%)	3.00%
		Values are based on tax rates notified by the Government of India for the said FY 2014-2015 (year in which decision was taken). The values are verified from the following links: https://taxguru.in/income-tax/income-tax-rate-chart-assessment-year-201516-financial-year-201415.html https://taxguru.in/service-tax/service-tax-rate-increased-1236-14-subsuming-ec-shec-effective-01062015.html
	<p>The input values of the parameters involved in the investment analysis have been crosschecked against each of the evidence provided by the project owner and all the values were found to be applicable/relevant at the time of the investment decision and or project activity scenario. Post tax Equity IRR i.e., 7.58% is less than Cost of Equity i.e., 15.59% and therefore renders the project activity financially non-feasible.</p> <p>Sub-step 2d: Sensitivity analysis As per Tool 27, version 12, variables, including the initial investment cost, that constitute more than 20% of either total project costs or total project revenues should be subjected to reasonable variation. The Guidance on Assessment of Investment Analysis requires the robustness of the conclusion arrived at to be proved through a sensitivity analysis by varying the critical assumptions to a reasonable variation ($\pm 10\%$). The project developer has identified PLF, project cost, and electricity tariff as critical assumptions. O&M cost does not constitute more than 20% of total project cost and hence not considered for sensitivity analysis. The sensitivity analysis reveals that even under more favourable conditions, the equity IRR would not cross the benchmark return as given in the following table:</p>	

Parameter	-10%	0	+10%	Breaching values
PLF	5.03%	7.58%	10.22%	29.00%
Electricity tariff Rate	5.03%	7.58%	10.22%	29.00%
Project Cost	9.85%	7.58%	5.83%	-26.50%

In conclusion, the equity IRR (after tax) will not reach the benchmark of 15.59% within the reasonable fluctuation range of +/-10% of the key financial parameters. The project verification team has cross-checked all the input values and calculations which are found to be correct and in accordance with Tool 27, version 12 /B07/.

The verification team carried out its own an independent assessment on the likelihood of the equity IRR breaching the benchmark and this assessment reveals that the project would become non additional only if:

- PLF goes up by 29%
- Project cost goes down by 26.5%
- Tariff increases by 29%

PP has submitted that such a reduction in project cost / O&M cost or increase in PLF / tariff is highly unrealistic and unlikely to happen for the following reasons:

PLF: Generation taken into consideration is equal to CERC recommended PLF. However, as per actual generation /11/ since COD, the PLF works out to only 20.02%. Hence, to get a PLF of 24.51% (which translates to a hike of 29.00%) on a sustained basis is highly hypothetical and unrealistic.

Project cost: The cost taken into computation is based on purchase orders/10/. Since the project activity is already operational since 2016, the cost incurred by the project owner is INR 5076.7 MN which is greater than the assumed amount of INR 3455 MN. This represents firm cost and as such the question of any reduction in the cost is hypothetical.

Tariff:

The PPA /5/ signed by the project owner mentions a tariff rate of INR 7.01/ kWh. The same was crosschecked with the sample invoices /13/ provided by the PO. It is therefore evident that the tariff rates have xxxx compared to that assumed for the financial calculations. Hence, an increase of 29% over the current tariff is not feasible.

The IRR calculated using actual values /3/ is 1.87% which does not reach the benchmark of 15.59% and remains additional.

In conclusion, the post-tax equity IRR will not reach the benchmark of 15.59% within reasonable fluctuation range of +/-10% of the key financial parameters. The project verification team has cross checked all the input values and calculations which are found to be correct and in accordance with Tool 27, version 12 /B07/.

	<p>Step 3: Barrier analysis PO has not applied barrier analysis.</p> <p>Step 4: Common practice analysis Common practice analysis for the project was conducted using CDM Tool 24, version 3.1) /B06/.</p> <p>Sub-step 4a: The proposed project activity(ies) applies measure(s) that are listed in the definitions section above</p> <p>The project is a solar power generation project and adopts type (b) measure listed in the Methodological tool am-tool-24-v03.1 Common practice /B06/. The applicable geographical area is Tamil Nadu state of India.</p> <p>The state of Tamil Nadu is chosen as the applicable geographical area as against the rest of the host country as the policy/tariff applicable for the renewable power projects is regulated by respective State Electricity Regulatory Commissions (SERCs) in accordance with the generic policy framed by the Central Electricity Regulatory Commission (CERC) and they differ from state to state. This is based on Electricity Act 2003, section 82 which clearly mentions “Every State Government shall, within six months from the appointed date, by notification, constitute for the purposes of this Act, a Commission for the State to be known as the (name of the State) Electricity Regulatory Commission” Appropriateness of the same has been checked and confirmed from the aforementioned act. (https://cercind.gov.in/Act-with-amendment.pdf).</p> <p>The investment climate for the renewable energy projects varies from State to State within India due to state specific local policy & regulatory framework as outlined by the State Electricity Regulatory Commissions of the respective state. Thus, consideration of the specific geographical area i.e. State of Tamil Nadu for the common practice analysis of the proposed project activity found to be reasonable and justified.</p> <p>Sub-step 4a-1: calculate applicable capacity or output range as +/-50% of the total design capacity or output of the proposed project activity.</p> <p>The applicable capacity calculated as +/-50% of total design capacity of proposed project activity was 25 to 75 MW, which was found to be in line with Tool 24.</p> <p>Sub-step 4a-2: identify similar projects (both CDM and non-CDM) which fulfil all of the following conditions:</p> <ol style="list-style-type: none"> a) The projects are located in the applicable geographical area These fall in the applicable geographical location i.e., state of Tamil Nadu in India. b) The projects apply the same measure as the proposed project activity These apply the same measure i.e., solar radiation based power generation. c) The projects use the same energy source/fuel and feedstock as the proposed project activity, if a technology switch measure is implemented by the proposed project activity These use the same source of input energy i.e., solar. d) The plants in which the projects are implemented produce goods or services with comparable quality, properties and applications areas (e.g. clinker) as the proposed project plant These produce the same goods/services i.e., electricity supplied to the
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connected grid.

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

The capacity of these projects is in the range as defined in Step 1 i.e., 25 MW – 75 MW.

f) 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.

The projects started commercial operations before the start date of proposed project activity i.e., 12/11/2015 (As per purchase order for inverter)

There are 2 similar projects which satisfy all of the above conditions.

Name of the Plant	Installed Capacity (MW)	Date of Commissioning
M/s.Giriraj Enterprises	40.00	29/09/2015
M/s. Welspun Solar Tech Pvt Ltd	50.00	27/10/2015

The source mentions all the projects implemented before 12/11/2015 within the desired capacity range /34/ and found to be accurate.

Sub-step 4a-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 validation. Note their number N_{all} .

Among the identified projects, one of them are registered with a carbon scheme.

Therefore, $N_{all} = 1$.

Sub-step 4a-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} .

None of the projects identified above apply a different technology than the proposed project activity,

Hence, $N_{diff} = 0$.

Sub-step 4a-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.

The factor of the proposed project activity is calculated as follows:

$$F = 1 - N_{diff}/N_{all} = 1 - (0/1) = 1$$

$$N_{all} - N_{diff} = 1-0= 1$$

As per applied tool, the proposed project activity is a “common practice” within a sector in the applicable geographical area if the factor F is greater than 0.2 and $N_{all} - N_{diff}$ is greater than 3.

	<p>For the proposed project, F is greater than 0.2, but $N_{all} - N_{diff}$ is not greater than 3, therefore, the project activity is not a common practice in the state of Tamil Nadu.</p> <p>The project verification team therefore concludes that as the project activity is not financially feasible and not a common practice, the project is additional.</p> <p>Step 2: Investment analysis for M/s SEI Venus Pvt. Ltd: 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 following sections as per “Investment analysis” (Version 12.0) /B07/.</p> <p>The project is bagged through bidding process and the date when letter of award was obtained i.e., 19/11/2014 is considered as the investment decision date for the project owner to start the project implementation despite inherent financial barriers. The additionality has been established using the data available at the time of investment decision which are mainly CERC RE tariff order dated 15/05/2014 /31/.</p> <p>Sub-step 2a: Determine appropriate analysis method Since project activity generates revenue, Option III - Benchmark Analysis has been chosen to carry out investment analysis.</p> <p>Sub-step 2b: Option III. Apply benchmark analysis Since the project is funded through equity and debt funds, Post Tax Equity IRR has been considered an appropriate financial indicator which will be tested against an appropriate benchmark cost of equity.</p> <p>These indicators are industry accepted indicators and are commonly used for financial analysis of similar kinds of projects.</p> <p>In line with para 16 of investment analysis /B07/, as the investment analysis is carried out in nominal terms and the available IRR benchmarks are in real terms, therefore, project owner has converted the real term values of benchmarks to nominal values by adding the inflation rate.</p> <p>As per para 19 of investment analysis, the cost of equity is determined by selecting the values provided in the Appendix, i.e., Default values for cost of equity (expected return on equity) is presented below: The Required return on equity (benchmark) was computed in the following means:</p> <p>Nominal Benchmark = $\{(1+Real\ Benchmark) * (1+Inflation\ rate)\} - 1$</p> <p>Where:</p> <ul style="list-style-type: none"> - Default value for Real Benchmark = 9.77%, as per TOOL27, version 12.0, which is the latest version available at the time of preparation of PSF - Inflation Rate forecast for by Reserve Bank of India (RBI) i.e., Central Bank of India. <p>TOOL27, version 12.0 specifies default value of expected return on equity in real terms for Energy Industries (Group 1) in India = 9.77%</p> <p>As per RBI report “Survey of Professional forecasters” dated 30/09/2014 /32/, the latest report available at the time of decision making, the 10-year inflation forecast projected was 4.8%.</p> <p>Therefore, Benchmark is calculated as $\{(1+9.77\%) * (1+4.8\%)\} - 1 = \mathbf{15.04\%}$</p>
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	<p>Sub-step 2c: Calculation and comparison of financial indicators For calculation of financial indicator, all relevant costs and revenues were found to be included in the IRR sheet /3/ provided by the PO. All assumptions and estimates used for input values were checked against the relevant sources.</p> <p>GCC project activity has a less favourable Equity IRR compared to the benchmark, and hence the GCC project activity cannot be considered as financially attractive.</p> <p>The key data parameters used to calculate Equity IRR for M/s SEI Venus Pvt. Ltd are tabulated below:</p>		
	Parameter	Value	Project assessment Verifier
			<p>Capacity</p> <p>30 MW</p> <p>The project rated capacity i.e. 30 MW is based on the commissioning report /8/ and found to be consistent and thus acceptable. The same was further confirmed from the purchase order /10/ as well as the PPA /5/.</p> <p>Installed capacity proposed at the time of decision making (i.e. internal management decision) and post decision making (actual implementation) is same and therefore found to be appropriate to the verification team.</p>
			<p>PLF</p> <p>19.00%</p> <p>Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same is equivalent to the PLF offered by the technology provider and is found to be acceptable.</p> <p>To further cross-check the robustness of the PLF, verification team has cross-checked the actual generation of the project activity to ascertain the conformity of the estimated PLF to the actual and observed that the generation yielded a PLF of 19.62% /11/. This is slightly higher than the input value. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.</p>

	Annual generation	49,932 MWh	<p>The value is calculated as: $\text{Capacity} * \text{PLF} * 8760 = 30 \text{ MW} * 19\% * 8760 \text{ h} = 49,932 \text{ MWh}$.</p> <p>The input values used in calculation were available at the time of investment decision making.</p> <p>The actual PLF since the start of operation of the project activity is 19.62% /11/ and therefore the annual average generation value comes to 51,561 MWh which is more than the input value used for IRR analysis. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.</p>
	Revenue & Expenses		
	Power tariff	6.95 INR/kWh	<p>The Value is based on the CERC RE tariff order 2014-15 /31/ which was available at the time of investment decision making date and is deemed acceptable to the project verification team.</p> <p>The project activity exports the entire power generated to DISCOM at a fixed tariff ₹6.51/kWh /5/. The same was cross-checked with the sample invoices /13/ by the verification team and therefore, acceptable to the verification team.</p>
	Annual degradation during 1st year (%)	2.50%	<p>The value considered is based on standard performance warranty by the PV module manufacturers (data modules) /6/.</p> <p>Based on the data module sheet for the PV modules /6/:</p> <p>Annual degradation from 2nd year till 10th year: $(97.5-90)/9= 0.83$</p> <p>Annual degradation from 11th year till 25th year: $(90-80)/15=0.67$</p>
	Annual degradation from 2nd year till 10 th year (%)	0.83%	
	Annual degradation from 11th year till 25 th year (%)	0.67%	

			The percentage of annual degradation is therefore considered appropriate for the project activity.
	O & M cost	42.44 million INR	Value is based on CERC RE tariff order dated 15/05/2014 /31/ and found to be consistent and thus acceptable. According to the said order, O&M expense norm for solar PV power project as ` 12.30 Lakh/MW for FY 2014-15 has been considered. This is also inclusive of the service tax of 15% applicable during FY 2014-15. This is deemed acceptable to the verification team.
	Escalation in O&M expenses p.a.	5.72%	Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same was further checked against the purchase order /10/ and found to be consistent and thus acceptable.
	Project cost and financing structure		
	Project cost	2073 million INR	Value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the capital cost norm for FY 2014-15 is INR 691 Lakh/MW for Solar PV Power Projects. The project cost for IRR analysis is calculated as 69.1 INR million * 30MW = 2073 INR Million. According to the Debenture Trust Deed /14/, the project cost is 2233 INR million which is higher than the input value. The actual project cost for the project activity is 1879 INR million /33/ which is lower than the input value for IRR analysis and hence, conservative and deemed acceptable to the verification team.
Loan Amount	1451.10 million INR	The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of	

			<p>interest on loan carried out for determination of tariff in respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). Therefore, the loan amount considered for IRR calculations is 70% of the project cost which is deemed acceptable to the project verification team.</p> <p>According to the debenture trust deed /14/, the loan amount is 1640 INR million. The value is in the similar range and does not make the project non-additional and hence, acceptable to the verification team.</p>
	Equity investment	621.90 INR million	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. The value is equivalent to 30% of the total project cost which is deemed acceptable to the project verification team.</p> <p>Actual Equity investment is calculated as the difference between the actual project cost and the loan amount i.e., $1879 - 1640 = 559.3$ INR million</p>
	Interest rate on loan	12.70%	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). This is deemed acceptable to the project verification team.</p>

	Loan Tenure	48 Quarters	The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the loan tenure of 12 years is to be considered for the purpose of determination of tariff for RE projects. This is deemed acceptable to the project verification team.
	Book Depreciation (SLM)		
	Salvage Value (%)	10.00	<p>Salvage value is considered as 10% of the total project cost (excluding cost of land lease, erection, and commissioning charges as well as transportation charges) as per the CERC tariff order dated 15/05/2014 /31/. These have been added back to the cash flow. Land cost is not considered in IRR calculations as the said order does not specify it separately, which is deemed acceptable to the project verification team. PO considered 10% of cost of plant and machinery (solar plant) as residual (salvage) value for the project activity conservatively).</p> <p>This is further validated as per the accounting practises and same has been also cross checked from Schedule II of the Companies Act 2013 /B19/ which allows 95% of original cost to be depreciated implying a consideration of 5% as salvage value as a standard accounting practice.</p> <p>Thus, the consideration by the PO of 10% salvage value is conservative and hence appropriate for the project activity.</p>
	IT Depreciation (SLM)	7.69%	<p>As Per Income Tax, Depreciation rates for power generating units.</p> <p>http://www.incometaxindia.gov.in/charts%20%20tables/depreciation%20rates.htm</p>

			The verification team found that the value is acceptable in accordance with the accounting principles of the host country.																					
Income tax rate (%)	30.00%		Values are based on tax rates notified by the Government of India for the said FY 2014-2015 (year in which decision was taken). The values are verified from the following links: https://taxguru.in/income-tax/income-tax-rate-chart-assessment-year-201516-financial-year-201415.html https://taxguru.in/service-tax/service-tax-rate-increased-1236-14-subsuming-ec-shec-effective-01062015.html																					
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<p>The input values of the parameters involved in the investment analysis have been crosschecked against each of the evidence provided by the project owner and all the values were found to be applicable/relevant at the time of the investment decision and or project activity scenario.</p> <p>Post tax Equity IRR i.e., 7.60% is less than Cost of Equity i.e., 15.04% and therefore renders the project activity financially non-feasible.</p> <p>Sub-step 2d: Sensitivity analysis</p> <p>As per Tool 27, version 12, variables, including the initial investment cost, that constitute more than 20% of either total project costs or total project revenues should be subjected to reasonable variation. The Guidance on Assessment of Investment Analysis requires the robustness of the conclusion arrived at to be proved through a sensitivity analysis by varying the critical assumptions to a reasonable variation ($\pm 10\%$). The project developer has identified PLF, project cost, and electricity tariff as critical assumptions. O&M cost does not constitute more than 20% of total project cost and hence not considered for sensitivity analysis. The sensitivity analysis reveals that even under more favourable conditions, the equity IRR would not cross the benchmark return as given in the following table:</p>																								
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	<p>The verification team carried out its own an independent assessment on the likelihood of the equity IRR breaching the benchmark and this assessment reveals that the project would become non additional only if:</p> <ul style="list-style-type: none"> • PLF goes up by 27.5% • Project cost goes down by 25.5% • Tariff increases by 27.5% <p>PP has submitted that such a reduction in project cost / O&M cost or increase in PLF / tariff is highly unrealistic and unlikely to happen for the following reasons:</p> <p><u>PLF</u>: Generation taken into consideration is equal to CERC recommended PLF. However, as per actual generation /11/ since COD, the PLF works out to only 19.62%. Hence, to get a PLF of 24.23% (which translates to a hike of 27.50%) on a sustained basis is highly hypothetical and unrealistic.</p> <p><u>Project cost</u>: The cost taken into computation is based on purchase orders /10/. Since the project activity is already operational since 2016, the cost incurred by the project owner is INR 1879 MN /33/ which is lesser than the assumed amount of INR 2073 MN. This represents firm cost and as such the question of any further reduction in the cost is hypothetical.</p> <p><u>Tariff</u>:</p> <p>The PPA /5/ signed by the project owner mentions a tariff rate of INR 6.51/ kWh. The same was crosschecked with the sample invoices /13/ provided by the PO. It is therefore evident that the tariff rate has decreased compared to that assumed for the financial calculations. Hence, an increase of 27.5% over the current tariff is not feasible.</p> <p>The IRR calculated using actual values /3/ is 10.27% which does not reach the benchmark of 15.59% and remains additional.</p> <p>In conclusion, the post-tax equity IRR will not reach the benchmark of 15.59% within reasonable fluctuation range of +/-10% of the key financial parameters. The project verification team has cross checked all the input values and calculations which are found to be correct and in accordance with Tool 27, version 12 /B07/.</p> <p>Step 3: Barrier analysis PO has not applied barrier analysis.</p> <p>Step 4: Common practice analysis Common practice analysis for the project was conducted using CDM Tool 24, version 3.1) /B06/.</p> <p>Sub-step 4a: The proposed project activity(ies) applies measure(s) that are listed in the definitions section above</p> <p>The project is a solar power generation project and adopts type (b) measure listed in the Methodological tool am-tool-24-v03.1 Common practice /B06/. The applicable geographical area is Karnataka state of India.</p> <p>The state of Karnataka is chosen as the applicable geographical area as against the rest of the host country as the policy/tariff applicable for the renewable power projects is regulated by respective State Electricity Regulatory Commissions (SERCs) in accordance with the generic policy framed by the Central Electricity Regulatory Commission (CERC) and they differ from state to state. This is based</p>
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	<p>on Electricity Act 2003, section 82 which clearly mentions “Every State Government shall, within six months from the appointed date, by notification, constitute for the purposes of this Act, a Commission for the State to be known as the (name of the State) Electricity Regulatory Commission” Appropriateness of the same has been checked and confirmed from the aforementioned act. (https://cercind.gov.in/Act-with-amendment.pdf).</p> <p>The investment climate for the renewable energy projects varies from State to State within India due to state specific local policy & regulatory framework as outlined by the State Electricity Regulatory Commissions of the respective state. Thus, consideration of the specific geographical area i.e. State of Karnataka for the common practice analysis of the proposed project activity found to be reasonable and justified.</p> <p>Sub-step 4a-1: calculate applicable capacity or output range as +/-50% of the total design capacity or output of the proposed project activity.</p> <p>The applicable capacity calculated as +/-50% of total design capacity of proposed project activity was 15 to 45 MW, which was found to be in line with Tool 24.</p> <p>Sub-step 4a-2: identify similar projects (both CDM and non-CDM) which fulfil all of the following conditions:</p> <ul style="list-style-type: none"> a) The projects are located in the applicable geographical area These fall in the applicable geographical location i.e., state of Karnataka in India. b) The projects apply the same measure as the proposed project activity These apply the same measure i.e., solar radiation based power generation. c) The projects use the same energy source/fuel and feedstock as the proposed project activity, if a technology switch measure is implemented by the proposed project activity These use the same source of input energy i.e., solar. d) The plants in which the projects are implemented produce goods or services with comparable quality, properties and applications areas (e.g. clinker) as the proposed project plant These produce the same goods/services i.e., electricity supplied to the connected grid. e) The capacity or output of the projects is within the applicable capacity or output range calculated in Step 1 The capacity of these projects is in the range as defined in Step 1 i.e., xx MW – xx MW. f) 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. The projects started commercial operations before the start date of proposed project activity i.e., 12/10/2016 (As per supply agreement for inverter) <p>There are 3 similar projects which satisfy all of the above conditions.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of the Plant</th> <th style="width: 25%;">Installed</th> <th style="width: 25%;">Date of Commissioning</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Name of the Plant	Installed	Date of Commissioning			
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	Capacity (MW)	
M/s. Welspun Renewables Energy Pvt. Ltd.	16.00	16/04/2016
M/s. Welspun Renewables Energy Pvt. Ltd.	34.00	14/07/2016
M/s. Boruka Power Corporation Limited	20.00	25/08/2016

The source mentions all the projects implemented before 12/10/2016 within the desired capacity range /34/ and found to be accurate.

Sub-step 4a-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 validation. Note their number N_{all} .

Among the identified projects, none of them are registered with a carbon scheme.

Therefore, $N_{all} = 3$.

Sub-step 4a-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} .

None of the projects identified above apply a different technology than the proposed project activity. Hence, $N_{diff} = 0$.

Sub-step 4a-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.

The factor of the proposed project activity is calculated as follows:

$$F = 1 - N_{diff}/N_{all} = 1 - (0/3) = 1$$

$$N_{all} - N_{diff} = 3 - 0 = 3$$

As per applied tool, the proposed project activity is a “common practice” within a sector in the applicable geographical area if the factor F is greater than 0.2 and $N_{all} - N_{diff}$ is greater than 3.

For the proposed project, F is greater than 0.2, but $N_{all} - N_{diff}$ is not greater than 3, therefore, the project activity is not a common practice in the state of Karnataka.

The project verification team therefore concludes that as the project activity is not financially feasible and not a common practice, the project is additional.

Step 2: Investment analysis for M/s SEI Diamond Pvt. Ltd:
 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 following sections as per “Investment analysis” (Version 12.0).

The project is bagged through bidding process and the date when letter of award was obtained i.e., 19/11/2014 is considered as the investment decision date for the project owner to start the project implementation despite inherent financial barriers. The additionality has been established using the data available at the time of investment decision which is mainly the CERC RE tariff order dated 15/05/2014

	<p>/31/</p> <p>Sub-step 2a: Determine appropriate analysis method Since project activity generates revenue, Option III - Benchmark Analysis has been chosen to carry out investment analysis.</p> <p>Sub-step 2b: Option III. Apply benchmark analysis Since the project is funded through equity and debt funds, Post Tax Equity IRR has been considered an appropriate financial indicator which will be tested against an appropriate benchmark cost of equity.</p> <p>These indicators are industry accepted indicators and are commonly used for financial analysis of similar kinds of projects.</p> <p>In line with para 16 of investment analysis /B07/, as the investment analysis is carried out in nominal terms and the available IRR benchmarks are in real terms, therefore, project owner has converted the real term values of benchmarks to nominal values by adding the inflation rate.</p> <p>As per para 19 of investment analysis, the cost of equity is determined by selecting the values provided in the Appendix, i.e., Default values for cost of equity (expected return on equity) is presented below: The Required return on equity (benchmark) was computed in the following means:</p> <p>Nominal Benchmark = $\{(1+\text{Real Benchmark}) * (1+\text{Inflation rate})\} - 1$</p> <p>Where:</p> <ul style="list-style-type: none"> - Default value for Real Benchmark = 9.77%, as per TOOL27, version 12.0, which is the latest version available at the time of preparation of PSF - Inflation Rate forecast for by Reserve Bank of India (RBI) i.e., Central Bank of India. <p>TOOL27, version 12.0 specifies default value of expected return on equity in real terms for Energy Industries (Group 1) in India = 9.77%</p> <p>As per RBI report “Survey of Professional forecasters” dated 30/09/2014 /32/, the latest report available at the time of decision making, the 10-year inflation forecast projected was 4.8%.</p> <p>Therefore, Benchmark is calculated as $\{(1+9.77\%) \times (1+4.8\%)\} - 1 = \mathbf{15.04\%}$</p> <p>Sub-step 2c: Calculation and comparison of financial indicators For calculation of financial indicator, all relevant costs and revenues were found to be included in the IRR sheet /3/ provided by the PO. All assumptions and estimates used for input values were checked against the relevant sources.</p> <p>GCC project activity has a less favourable Equity IRR compared to the benchmark, and hence the GCC project activity cannot be considered as financially attractive.</p> <p>The key data parameters used to calculate Equity IRR for M/s SEI Diamond Pvt. Ltd are tabulated below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Parameter</th> <th style="text-align: center;">Value</th> <th style="text-align: center;">Project assessment</th> <th style="text-align: center;">Verifier</th> </tr> </thead> <tbody> <tr> <td>Capacity</td> <td>30 MW</td> <td>The project rated capacity</td> <td></td> </tr> </tbody> </table>	Parameter	Value	Project assessment	Verifier	Capacity	30 MW	The project rated capacity	
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Capacity	30 MW	The project rated capacity							

			<p>i.e. 30 MW is based on the commissioning report /8/ and found to be consistent and thus acceptable. The same was further confirmed from the purchase order /10/ as well as the PPA /5/.</p> <p>Installed capacity proposed at the time of decision making (i.e. internal management decision) and post decision making (actual implementation) is same and therefore found to be appropriate to the verification team.</p>
	PLF	19.00%	<p>Value is based on CERC RE tariff order dated 15/05/2014 /31/. The same is equivalent to the PLF offered by the technology provider and is found to be acceptable.</p> <p>To further cross-check the robustness of the PLF, verification team has cross-checked the actual generation of the project activity to ascertain the conformity of the estimated PLF to the actual and observed that the generation yielded a PLF of 19.66% /11/. This is slightly higher than the input value. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.</p>
	Annual generation	49,932 MWh	<p>The value is calculated as: $Capacity * PLF * 8760 = 30 \text{ MW} * 19\% * 8760 \text{ h} = 49,932 \text{ MWh}$.</p> <p>The input values used in calculation were available at the time of investment decision making.</p> <p>The actual PLF since the start of operation of the project activity is 19.66% /11/ and therefore the annual average generation value</p>

			comes to 51,666 MWh which is more than the input value used for IRR analysis. However, this does not breach the benchmark and the project remains additional in the actual scenario. Therefore, this is acceptable to the verification team.
	Revenue & Expenses		
	Power tariff	6.95 INR/kWh	The Value is based on the CERC RE tariff order 2014-15 /31/ which was available at the time of investment decision making date and is deemed acceptable to the project verification team. The project activity exports the entire power generated to DISCOM at a fixed tariff ₹6.51/kWh /5/. The same was cross-checked with the sample invoices /13/ by the verification team and therefore, acceptable to the verification team.
	Annual degradation during 1st year (%)	2.50%	The value considered is based on standard performance warranty by the PV module manufacturers (data modules) /6/.
	Annual degradation from 2nd year till 10 th year (%)	0.83%	Based on the data module sheet for the PV modules /6/:
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	O & M cost	42.44 million INR	Value is based on CERC RE tariff order dated 15/05/2014 /31/ and found to be consistent and thus acceptable. According to the said order, O&M expense norm for solar PV power project as ` 12.30 Lakh/MW for FY 2014-15 has

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	Project cost and financing structure		
	Project cost	2073 INR million	Value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the capital cost norm for FY 2014-15 is INR 691 Lakh/MW for Solar PV Power Projects. The project cost for IRR analysis is calculated as 69.1 INR million * 30MW = 2073 INR Million. According to the Debenture Trust Deed /14/, the project cost is 2233 INR million which is higher than the input value. The actual project cost for the project activity is 1871.7 INR million /33/ which is lower than the input value for IRR analysis and hence, conservative and therefore, acceptable to the verification team.
	Loan Amount	1451.10 INR million	The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). Therefore, the loan amount considered for IRR

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	Equity investment	621.90 INR million	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. The value is equivalent to 30% of the total project cost which is deemed acceptable to the project verification team.</p> <p>The actual equity investment is calculated as the difference between the total project cost and the loan amount. The value comes out to be 231.70 INR million.</p>
	Interest rate on loan	12.70%	<p>The value is based on the CERC RE Tariff order 2014-15 /31/. According to the said order, the computations of interest on loan carried out for determination of tariff in respect of the RE projects treating the value base of loan as 70% of the capital cost and the weighted average of Base rate prevalent during the first six months of the (i.e. 9.70%) plus 300 basis points (equivalent to interest rate of 12.70%). This is deemed acceptable to the project verification team.</p> <p>According to the debenture trust deed /14/, the interest rate is 12.70%. This is deemed acceptable to the project verification team.</p>
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	Book Depreciation (SLM)		
	Salvage Value (%)	10.00	<p>Salvage value is considered as 10% of the total project cost (excluding cost of land lease, erection, and commissioning charges as well as transportation charges) as per the CERC tariff order dated 15/05/2014 /31/. These have been added back to the cash flow. Land cost is not considered in IRR calculations as the said order does not specify it separately, which is deemed acceptable to the project verification team. PO considered 10% of cost of plant and machinery (solar plant) as residual (salvage) value for the project activity conservatively).</p> <p>This is further validated as per the accounting practises and same has been also cross checked from Schedule II of the Companies Act 2013 /B19/ which allows 95% of original cost to be depreciated implying a consideration of 5% as salvage value as a standard accounting practice.</p> <p>Thus, the consideration by the PO of 10% salvage value is conservative and hence appropriate for the project activity.</p>
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Parameter	-10%	0	+10%	Breaching value																				
PLF	5.06%	7.60%	10.25%	27.50%																				
Electricity tariff Rate	5.06%	7.60%	10.25%	27.50%																				
Project Cost	9.88%	7.60%	10.25%	-25.50%																				
<p>The verification team carried out its own an independent assessment on the likelihood of the equity IRR breaching the benchmark and this assessment reveals that the project would become non additional only if:</p>																								
<ul style="list-style-type: none"> • PLF goes up by 27.5% • Project cost goes down by 25.5% • Tariff increases by 27.5% 																								

	<p>PP has submitted that such a reduction in project cost / O&M cost or increase in PLF / tariff is highly unrealistic and unlikely to happen for the following reasons:</p> <p><u>PLF</u>: Generation taken into consideration is equal to CERC recommended PLF. However, as per actual generation /11/ since COD, the PLF works out to only 19.66%. Hence, to get a PLF of 24.23% (which translates to a hike of 27.50%) on a sustained basis is highly hypothetical and unrealistic.</p> <p><u>Project cost</u>: The cost taken into computation is based on purchase orders /10/. Since the project activity is already operational since 2016, the cost incurred by the project owner is INR 1871.7 MN /33/ which is lesser than the assumed amount of INR 2073 MN. This represents firm cost and as such the question of any further reduction in the cost is hypothetical.</p> <p><u>Tariff</u>:</p> <p>The PPA /5/ signed by the project owner mentions a tariff rate of INR 6.51/ kWh. The same was crosschecked with the sample invoices /13/ provided by the PO. It is therefore evident that the tariff rate has decreased compared to that assumed for the financial calculations. Hence, an increase of 27.5% over the current tariff is not feasible.</p> <p>The IRR calculated using actual values /3/ is 4.12% which does not reach the benchmark of 15.59% and remains additional.</p> <p>In conclusion, the post-tax equity IRR will not reach the benchmark of 15.04% within reasonable fluctuation range of +/-10% of the key financial parameters. The project verification team has cross checked all the input values and calculations which are found to be correct and in accordance with Tool 27, version 12.</p> <p>Step 3: Barrier analysis PO has not applied barrier analysis.</p> <p>Step 4: Common practice analysis Common practice analysis for the project was conducted using CDM Tool 24, version 3.1) /B06/.</p> <p>Sub-step 4a: The proposed project activity(ies) applies measure(s) that are listed in the definitions section above</p> <p>The project is a solar power generation project and adopts type (b) measure listed in the Methodological tool am-tool-24-v03.1 Common practice /B06/. The applicable geographical area is Karnataka state of India.</p> <p>The state of Karnataka is chosen as the applicable geographical area as against the rest of the host country as the policy/tariff applicable for the renewable power projects is regulated by respective State Electricity Regulatory Commissions (SERCs) in accordance with the generic policy framed by the Central Electricity Regulatory Commission (CERC) and they differ from state to state. This is based on Electricity Act 2003, section 82 which clearly mentions "Every State Government shall, within six months from the appointed date, by notification, constitute for the purposes of this Act, a Commission for the State to be known as the (name of the State) Electricity Regulatory Commission" Appropriateness of the same has been checked and confirmed from the aforementioned act. (https://cercind.gov.in/Act-with-amendment.pdf).</p> <p>The investment climate for the renewable energy projects varies from State to State</p>
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within India due to state specific local policy & regulatory framework as outlined by the State Electricity Regulatory Commissions of the respective state. Thus, consideration of the specific geographical area i.e. State of Karnataka for the common practice analysis of the proposed project activity found to be reasonable and justified.

Sub-step 4a-1: calculate applicable capacity or output range as +/-50% of the total design capacity or output of the proposed project activity.

The applicable capacity calculated as +/-50% of total design capacity of proposed project activity was 15 to 45 MW, which was found to be in line with Tool 24.

Sub-step 4a-2: identify similar projects (both CDM and non-CDM) which fulfil all of the following conditions:

- a) The projects are located in the applicable geographical area**
These fall in the applicable geographical location i.e., state of Karnataka in India.
- b) The projects apply the same measure as the proposed project activity**
These apply the same measure i.e., solar radiation based power generation.
- c) The projects use the same energy source/fuel and feedstock as the proposed project activity, if a technology switch measure is implemented by the proposed project activity**
These use the same source of input energy i.e., solar.
- d) The plants in which the projects are implemented produce goods or services with comparable quality, properties and applications areas (e.g. clinker) as the proposed project plant**
These produce the same goods/services i.e., electricity supplied to the connected grid.
- e) The capacity or output of the projects is within the applicable capacity or output range calculated in Step 1**
The capacity of these projects is in the range as defined in Step 1 i.e., 15 MW – 45 MW.
- f) 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.**
The projects started commercial operations before the start date of proposed project activity i.e., 19/09/2016 (As per supply agreement for PV modules)

There are 3 similar projects which satisfy all of the above conditions.

Name of the Plant	Installed Capacity (MW)	Date of Commissioning
M/s. Welspun Renewables Energy Pvt. Ltd.	16.00	16/04/2016
M/s. Welspun Renewables Energy Pvt. Ltd.	34.00	14/07/2016
M/s. Boruka Power Corporation Limited	20.00	25/08/2016

	<p>The source mentions all the projects implemented before 19/09/2016 within the desired capacity range /34/ and found to be accurate.</p> <p>Sub-step 4a-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 validation. Note their number N_{all}.</p> <p>Among the identified projects, none of them are registered with a carbon scheme.</p> <p>Therefore, $N_{all} = 3$.</p> <p>Sub-step 4a-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>None of the projects identified above apply a different technology than the proposed project activity. Hence, $N_{diff} = 0$.</p> <p>Sub-step 4a-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 of the proposed project activity is calculated as follows:</p> $F = 1 - N_{diff}/N_{all} = 1 - (3/0) = 1$ $N_{all} - N_{diff} = 3-0=3$ <p>As per applied tool, the proposed project activity is a “common practice” within a sector in the applicable geographical area if the factor F is greater than 0.2 and $N_{all} - N_{diff}$ is greater than 3.</p> <p>For the proposed project, F is greater than 0.2, but $N_{all} - N_{diff}$ is not greater than 3, therefore, the project activity is not a common practice in the state of Karnataka.</p> <p>The project verification team therefore concludes that as the project activity is not financially feasible and not a common practice, the project is additional.</p> <p>The project verification team also concludes that the bundled project is not financially feasible without ACC revenue and is additional.</p>
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D.3.6 Estimation of emission reductions or net anthropogenic removal

Means of Project Verification	DR, I
Findings	CL 02, CL 03, CL10 and CAR 07 were raised and closed successfully. Please refer to Appendix 4 for further details.
Conclusion	<p>The verification team confirms that the equations and parameters used to calculate GHG emission reductions or net anthropogenic removals in the sections B.6 of PSF/1-b/ are in accordance with applied methodology, GCCM001 version 3.0 /B02/.</p> <p><u>The baseline emissions are calculated using the formula:</u></p> $BE_y = EG_{PJ, y} \times EF_{grid, y}$

	<p>Where:</p> <p>BE_y = Baseline emissions in year y (t CO₂)</p> <p>$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr.)</p> <p>$EF_{grid,y}$ = 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” (t CO₂/MWh)</p> <p>The formula has been correctly applied as per §24 of the applied methodology according to which “baseline emissions include only CO₂ emissions from electricity generation in power plants that are displaced due to the project activity”.</p> <p>As per the PSF the estimated net electricity generation from the project activity ($EG_{PJ,y}$) is estimated to be 278,593 MWh/year which is derived from the Joint Monthly Reading Reports/7/. The same have been duly verified and the project verification team confirms that the actual generation from the project activity tallies with the estimation in the PSF as well as the ER calculation sheet /2/ and hence is acceptable.</p> <p>The electricity generation from the project activity is calculated based on the value of PLF i.e. 19 % which is sourced from the generic levelized generation tariff order for the FY 2013-2014 by the CERC /31/. The value considered by the project owner for determining the ex-ante emission reductions in the PSF is therefore deemed acceptable to the verification team after verification of the said order /1/.</p> <p>Also, the degradation of solar panels is assumed as 2.5% for the 1st year and 0.83% on each year up to 10 years (till the end of the crediting period). Based on the sectoral expertise and standard performance warranty of the solar panel suppliers/6/ of the project activity this is acceptable to verification team.</p> <p>The project activity has applied the “Tool to calculate the emission factor for an electricity system” version 7.0 for the calculation of CO₂ emission factor of the grid. The assessment of the step wise approach for the calculation of the parameter $EF_{grid,y}$ is detailed below:</p>				
	<table border="1"> <thead> <tr> <th style="background-color: #e0e0e0;">Steps for Calculation of combined grid emission factor as per TOOL07: “Tool to calculate the emission factor for an electricity system” version 07</th> <th style="background-color: #e0e0e0;">Assessment</th> </tr> </thead> <tbody> <tr> <td> <p>Step 1: Identify the relevant electricity systems</p> </td> <td> <p>In accordance with §10(e) of the applied tool, the project activity identifies the Indian Grid as the relevant electricity system.</p> <p>In India, all regional grids have been integrated as a single Indian Grid covering all the states in December 2013 by the Central Electricity Authority (CEA), Government of India.</p> <p>Therefore, in accordance with §17(a) of the applied tool the delineation of the project electricity system and</p> </td> </tr> </tbody> </table>	Steps for Calculation of combined grid emission factor as per TOOL07: “Tool to calculate the emission factor for an electricity system” version 07	Assessment	<p>Step 1: Identify the relevant electricity systems</p>	<p>In accordance with §10(e) of the applied tool, the project activity identifies the Indian Grid as the relevant electricity system.</p> <p>In India, all regional grids have been integrated as a single Indian Grid covering all the states in December 2013 by the Central Electricity Authority (CEA), Government of India.</p> <p>Therefore, in accordance with §17(a) of the applied tool the delineation of the project electricity system and</p>
Steps for Calculation of combined grid emission factor as per TOOL07: “Tool to calculate the emission factor for an electricity system” version 07	Assessment				
<p>Step 1: Identify the relevant electricity systems</p>	<p>In accordance with §10(e) of the applied tool, the project activity identifies the Indian Grid as the relevant electricity system.</p> <p>In India, all regional grids have been integrated as a single Indian Grid covering all the states in December 2013 by the Central Electricity Authority (CEA), Government of India.</p> <p>Therefore, in accordance with §17(a) of the applied tool the delineation of the project electricity system and</p>				

		<p>connected electricity systems published by the DNA of the host country i.e. CO₂ Baseline Database for the Indian Power Sector, Version 17, October 2021 published by Central Electricity Authority (CEA), Government of India/17/ is used. The same has been duly verified and found to be acceptable.</p>
	<p>Step 2: Choose whether to include off-grid power plants in the project electricity system (optional)</p>	<p>The project activity has chosen only grid power plants. The project verification team has reviewed the ER sheet/2/, the CEA published database/17/ and found the same to be acceptable.</p>
	<p>Step 3: Select a method to determine the operating margin (OM) (EFgrid,OMSimple,y)</p>	<p>With reference to the options provided for the determination of OM under §38 of the Tool, the project activity has selected Simple OM emission factor calculation.</p> <p>The same is found acceptable as the options of Simple adjusted OM and Dispatch data analysis OM could not be utilized due to lack of availability of data. The aforementioned fact is also considered by the Central Electricity Authority in the user guide for CO₂ Baseline Database for the Indian Power Sector version 17.0, October 2021 /17/. Furthermore, the Average OM method also cannot be applied as low cost/must run resources (LCMR) constitute less than 50% of total grid generation for recent 5year data (2016-2017 to 2020-2021). The same has been verified against the CEA Baseline database /17/.</p> <p>Therefore, as the LCMR share for the recent 5 years is less than 50%, simple OM can be used.</p> <p>The same is found to be in compliance with the applied tool and found to be acceptable.</p> <p>The parameter “Simple OM emission factor”, is fixed ex-ante.</p>
	<p>Step 4: Calculate the operating margin emission factor according to the selected method</p>	<p>The Simple OM emission factor is calculated as a weighted average generation for the recent 3 years i.e. 2018-2019, 2019-2020, and 2020-</p>

		<p>2021.</p> <p>The values have been verified against the database used i.e. Central Electricity Authority in the user guide for CO₂ Baseline Database for the Indian Power Sector version 17.0, October 2021 /17/ and found to be accurate. The same is found to be in compliance with §42(a) of the applied tool and found to be acceptable.</p>
	<p>Step 5: Calculate the build margin (BM) emission factor (EF_{grid,BM,y})</p>	<p>The Build Margin emission factor is calculated based on the recent information available i.e. value for the year 2020-2021.</p> <p>The value has been verified against the database used i.e. Central Electricity Authority in the user guide for CO₂ Baseline Database for the Indian Power Sector version 17.0, October 2021 /17/ and found to be accurate. The same is found to be in compliance with §72(a) of the applied tool and found to be acceptable.</p>
	<p>Step 6: Calculate the combined margin (CM) emission factor</p>	<p>The combined margin emission factor is calculated by the Weighted average CM method and is based on the formula provided in §85 of the applied tool.</p> <p>The verification team has reviewed the calculation in the PSF/1-b/ as well as the ER calculation sheet/2/ and found the same to be transparent and accurate. The result of the emission factor calculation is therefore found to be acceptable.</p>
	<p>The combined margin emission factor ($EF_{grid,y}$) calculated on the basis of Tool 07 is 0.9305 tCO_{2e}/MWh. This complies with the requirement stated in paragraph 9 of GCC Clarification no. 3 (version 1.0) /B01-8/, which states that <i>"if the project owner applies options 8(c) to 8(e) above, the latest available emission factor shall not be older than 3 years, at the time of submission of the project documentation for starting Global Stakeholder Consultation (GSC)"</i>.</p> <p>Therefore, the baseline emission value is derived as 259,231 tCO_{2e} using the aforementioned formulae and figures and is found to be acceptable.</p> <p><u>Project emissions:</u></p> <p>As per §26 of the applied methodology "for most renewable energy project activities, project emissions are equal to zero." As solar energy is a GHG emission free source of energy for the project activity, project emissions are considered</p>	

	<p>“Zero” for the project activity i.e. $PE_y = 0$.</p> <p>The same is in accordance with the applied methodology as well as project design and hence is found to be acceptable.</p> <p><u>Leakage Emissions</u></p> <p>As per §29 of the applied methodology no leakage emissions are estimated for the project activity. Leakage emission are therefore considered “Zero” for the project activity i.e. $LE_y = 0$.</p> <p>The same is in accordance with the applied methodology as well as project design and hence is found to be acceptable.</p> <p><u>Emission reductions</u></p> <p>In accordance with §30 of the applied methodology, emission reductions are calculated as follows:</p> $ER_y = BE_y - PE_y - LE_y$ <p>Where:</p> <p>ER_y = Emission reductions in year y (t CO₂) BE_y = Baseline Emissions in year y (t CO₂) PE_y = Project emissions in year y (t CO₂) LE_y = Leakage emissions in year y (t CO₂)</p> <p>Therefore, the annual emission reduction value is derived as 259,231 tCO₂e using the aforementioned formulae and figures and is found to be acceptable.</p> <p>CC IPL verification team confirms that the baseline methodology and the applicable tool(s) have been applied correctly to calculate emission factor, project emissions, baseline emissions, leakage and emission reductions. Furthermore, all the data used in the PSF/1-b/ as well as the ER calculation sheet/2/ is quoted correctly including their source.</p> <p>The verification team therefore concludes that all the values used in the PSF are reasonable and the calculations are complete and accurate without any omissions. The same is found to be acceptable.</p>
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D.3.7 Monitoring plan

Means of Project Verification	DR, I
Findings	CL 03, CL 04, CL 05 and CAR 07 were raised and closed successfully. Please refer to Appendix 4 for further details.
Conclusion	<p>The monitoring plan described in the PSF is in compliance with the applied methodology “GCCM001” version 3.0 /B02/. The monitoring plan is also found to be in compliance with the requirements of GCC Environment and Social-Safeguards Standard version 3.0 /B01-4/ and Project Sustainability Standard version 3.0 /B01-5/.</p> <p>The CC IPL project verification team has reviewed all the parameters in the monitoring plan against the requirements of the applied methodology and confirmed that no deviations relevant to the project activity have been found. The procedures have been reviewed through document review and interviews with the</p>

	<p>respective monitoring personnel.</p> <p>The project verification team can hence confirm that the proposed monitoring plan is feasible within the project design. Therefore, the project owner is able to implement the monitoring plan and the achieve emission reductions that can be reported ex-post and verified.</p> <p>Data and parameters fixed ex-ante:</p> <p>Ex-ante parameters provided under section B.6.2 of the PSF /1-b/ are found to be appropriate and in line with the applied methodology GCCM001 (version 3.0) /B02/. Ex-ante parameters of the project activity would be as follows:</p>		
	Parameter	Verified Value	Assessment
	<p>Operating margin CO₂ emission factor for the project electricity system in year y EF_{grid,OM,y}</p>	0.9522 tCO ₂ /MWh	<p>The values are based on latest CO₂ Baseline Database for the Indian Power Sector User Guide, Version 17.0 /17/, October 2021 published by Central Electricity Authority (CEA), Government of India.</p> <p>For parameter EF_{grid,OM,y}, as per paragraph 42(a) of the “tool to calculate the emission factor for an electricity system” version 7.0, 3-year generation-weighted average, based on the most recent data available at the time of submission of the PSF has been used and found to be appropriate.</p>
	<p>Build margin CO₂ emission factor for the project electricity system in year y EF_{grid,BM,y}</p>	0.8653 tCO ₂ /MWh	<p>For parameter EF_{grid,BM,y}, as per paragraph 72(a) of the “tool to calculate the emission factor for an electricity system” version 7.0, the most recent data available at the time of submission of the PSF has been used and found to be appropriate.</p> <p>The documentation source/17/ has been duly verified to confirm the values.</p> <p>Please also refer section D.3.6</p>
<p>Combined margin CO₂ emission factor for the project electricity</p>	0.9305 tCO ₂ /MWh	<p>In accordance with paragraph 85 of “tool to calculate the emission</p>	

	<p>system in year y EF_{grid,y}</p>	<p>factor for an electricity system” version 7.0, the parameter EF_{grid,y} is calculated as the weighted average of the operating margin (0.75) & build margin (0.25) values, sourced from CO₂ Baseline Database for the Indian Power Sector User Guide, Version 17.0, October 2021/17/.</p> <p>The PSF/1-b/ as well as Emission Reduction calculation excel sheet/2/ have been duly verified to confirm the calculation. The derived value is found to be appropriate.</p>
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Data and parameters to be monitored ex-post:

Ex-post parameters mentioned under section B.7.1 of the PSF /1-b/ are found to be appropriate and in line with the applied methodology GCCM001 (version 3.0) /B02/. The parameters that are to be monitored ex-post are:

Sr. No.	Parameter	Assessment
1.	<p>EG_{P,J,Y}</p> <p>Replacing fossil fuels with renewable sources of energy and SDG 7</p> <p>Quantity of net electricity generation supplied by the project plant/unit to the grid in year y</p>	<p>The electricity generated by the project activity is supplied to the Indian grid. The net electricity generated is based on the difference between export to the DISCOM and import from grid. The amount of electricity exported by the project activity is continuously monitored by bi-directional energy meters (main meter, check meter, and in some cases a backup meter as well) of accuracy class 0.2s which are located at the substation. The serial numbers mentioned in the PSF are in accordance with the onsite observation /30/. The energy meters installed at the substation end are jointly inspected and sealed by the state utility and its representatives.</p> <p>The calibration of the meters has been carried out once a year for all the project activities by the state electricity officials as per provision in the Power Purchase Agreement for each project activity /5/ which is acceptable to the verification team. The same has been confirmed during the onsite visit /30/</p>

			<p>and by checking the calibration certificates /9/. The verification team also confirmed that the metering is performed as per the single line diagram /12/ checked during the onsite visit.</p> <p>The monitoring parameter is recorded on monthly basis. The Joint Meter Readings (JMR) taken every month from the meter, in the presence of authorised official from state electricity board along with a representative of the project owner, gives the net value of electricity supplied by the project activity to the grid. The monthly value of metered energy is the basis for PO to raise monthly invoices /13/. Therefore, Net electricity supplied to the grid by the project activity will be cross checked with the JMR /7/ and monthly invoices raised /13/.</p> <p>It can therefore be concluded that the project owner has the ability to implement the monitoring plan mentioned in the PSF /1-b/.</p> <p>Furthermore, the data collected as part of monitoring will be archived electronically and be kept for at least 2 years after the end of the crediting period or till the last issuance of ACCs for the project activity whichever occurs later.</p>
	2.	CO ₂ Emission Reductions (SDG 13)	<p>The project activity generates and supplies renewable solar sourced based electricity to the grid, where it replaces fossil fuel source-based electricity. Emission reduction is calculated based on the net electricity generation from the project activity and grid emission factor. While the grid emission factor is fixed ex-ante, the net electricity generation is continuously monitored as stated above for the monitoring parameter EG_{P,J,Y}.</p> <p>The calculation procedures for the reduction in CO₂ emissions are correctly defined in the PSF. The parameter is being monitored to assess to contribution SDG goal -13 Climate Change and also the positive environmental impact. Adequate details for monitoring/reporting/recording are defined in the PSF.</p>

			The CO ₂ emission reduction is validated from the ER calculation sheet /02/ and found appropriate.
	3.	Skill Development Training (SDG 4)	<p>The project owner will provide training for both existing employees and local youth and adults with relevant skills. The project will train at least 3 persons throughout the crediting period (under each project activity) which can be verified from the training attendance sheet.</p> <p>The means of monitoring was confirmed during interviews conducted on site /30/ and the monitoring practices followed by the project owner is appropriate in relation to the project activity and its acceptable to the assessment team.</p>
	4.	Efficiency of health services (SDG 3)	<p>The project owner will create basic health services, set up health camps and distribute medicines and vaccines to local people, under each project activity. The records for the same will be kept by the project owner and will be monitored once in four years.</p> <p>The means of monitoring was confirmed during interviews conducted on site /30/ and the monitoring practices followed by the project owner is appropriate in relation to the project activity and its acceptable to the assessment team.</p>
	5.	Solid waste Pollution from E-wastes	<p>The e-waste generated by the Project activity viz. Spares of SCADA system, inverters and other electrical and electronic parts involved in the project or post their useful life will be disposed as per prevailing laws and regulations of the host country i.e. E-Waste (Management) Rules, 2011 /B23/. Accordingly, the e-waste generated from the project activity will be collected by the SPCB authorized Solid E-Waste recyclers/ dismantlers/ Scrap dealers.</p> <p>The quantity of E-waste reused/recycled/refurbished/disposed of under each project activity will be monitored per year by means of the records maintained on site. This was further confirmed by interviewing /30/ the monitoring personnel of the project activity during site visit.</p> <p>The monitoring practice followed is therefore found to be appropriate and is acceptable to the verification team.</p>

	6.	Incidents/Accidents (SDG 8)	<p>The number of major incidents/accidents will be monitored yearly. The project owner conducts occupational safety trainings, display of safety posters at site and follows company EHS policy /24/ strictly. The monitored value can be confirmed from the EHS records maintained on site.</p> <p>This was confirmed during interviews conducted on site /30/ and the monitoring practices followed by the project owner is appropriate in relation to the project activity and its acceptable to the assessment team.</p>
	7.	Employment – Long Term (SDG 9)	<p>This parameter is monitored yearly based on the number of jobs created by the project owner on a long-term basis. The project will at least provide employment to 5 persons yearly, for each project activity, which can be verified using the site register / employment records maintained for project activity. PO has provided the Project Activity specific Employee Lists segregated into long term and short-term employments /36/.</p> <p>This was confirmed during interviews conducted on site /30/ and the monitoring practices followed by the project owner is appropriate in relation to the project activity and its acceptable to the assessment team.</p>
	8.	Employment – Short Term	<p>This parameter is monitored yearly based on the number of jobs created by the project owner on a short-term basis. The project will at least provide employment to 5 persons yearly, for each project activity, which can be verified using the site register / employment records maintained for project activity. PO has provided the Project Activity specific Employee Lists segregated into long term and short-term employments /36/.</p> <p>This was confirmed during interviews conducted on site /30/ and the monitoring practices followed by the project owner is appropriate in relation to the project activity and its acceptable to the assessment team.</p>
<p>The verification team therefore confirms that the parameters to be monitored have been presented correctly according to methodological as well as Standard specific</p>			

	requirements/B02/. This is in conformance with the requirements of GCC Verification Standard (version 3.1) /B01-2/.
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D.4. Start date, crediting period and duration

Means of Project Verification	DR, I																		
Findings	CL 11 was raised and closed successfully. Please refer to Appendix 4 for further details.																		
Conclusion	<p>The project activities forming the bundle have the following start dates:</p> <table border="1"> <thead> <tr> <th>Project Activity Location</th> <th>Capacity</th> <th>Start Date</th> </tr> </thead> <tbody> <tr> <td>M/s. RT Renewable Energy India Pvt Ltd</td> <td>15 MW</td> <td>28/03/2016</td> </tr> <tr> <td>M/s. SEI Phoebus Pvt Ltd</td> <td>50 MW</td> <td>08/02/2016</td> </tr> <tr> <td>M/s. SEI Adhavan Power Pvt Ltd</td> <td>50 MW</td> <td>31/03/2016</td> </tr> <tr> <td>M/s. SEI Venus Private Ltd</td> <td>30 MW</td> <td>28/03/2017</td> </tr> <tr> <td>M/s. SEI Diamond Pvt Ltd</td> <td>30 MW</td> <td>28/03/2017</td> </tr> </tbody> </table> <p>The start date of the bundle activity is therefore considered as 08/02/2016, which is the earliest date of start of operation amongst all the involved project activities in the bundle. The same has been duly verified against the commissioning reports /8/ and found to be acceptable by the verification team.</p> <p>Crediting period has been chosen as fixed 10 years from 07/02/2017 to 06/02/2027. The start date of the crediting period is stated as 07/02/2017, which is appropriate as per §40(b) of the Project Standard version 03.1 /B01-1/.</p> <p>Project owner has considered the expected lifetime of the project activity as 25 years. The same has been verified against the technical specification /6/ of the Solar Photovoltaic Panels installed and confirmed on the basis of sectoral expertise.</p> <p>The project verification team therefore concludes that the start date, crediting period type and duration are in conformance with the requirements of §38, §39 and §40 of GCC Project Standard, version 03.1 /B01-1/ and §13 of GCC Clarification No. 1, version 1.3 /B01-6/.</p>	Project Activity Location	Capacity	Start Date	M/s. RT Renewable Energy India Pvt Ltd	15 MW	28/03/2016	M/s. SEI Phoebus Pvt Ltd	50 MW	08/02/2016	M/s. SEI Adhavan Power Pvt Ltd	50 MW	31/03/2016	M/s. SEI Venus Private Ltd	30 MW	28/03/2017	M/s. SEI Diamond Pvt Ltd	30 MW	28/03/2017
Project Activity Location	Capacity	Start Date																	
M/s. RT Renewable Energy India Pvt Ltd	15 MW	28/03/2016																	
M/s. SEI Phoebus Pvt Ltd	50 MW	08/02/2016																	
M/s. SEI Adhavan Power Pvt Ltd	50 MW	31/03/2016																	
M/s. SEI Venus Private Ltd	30 MW	28/03/2017																	
M/s. SEI Diamond Pvt Ltd	30 MW	28/03/2017																	

D.5. Environmental impacts

Means of Project Verification	DR, I
Findings	No findings were raised pertaining to this section
Conclusion	<p>The project activity refers to the guidelines on Environmental Impact Assessment published by Ministry of Environment, Forests and Climate Change (MoEF & CC), Government of India (GOI) under Environmental Impact Assessment notification 14/09/2006 which was further amended on 14/07/2018/B20/. The said guidelines categorise project activities that require Environmental Impact Assessment.</p> <p>Solar radiation based power projects are not listed in any of the categories of the schedule and hence are exempted from conducting Environmental Impact Assessment as per host country legislation.</p>

	<p>Furthermore, the report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” by the Ministry of New and Renewable Energy (MNRE) dated September 2013 /37/ does not envisage any significant impact due to solar radiation based power projects on the environment.</p> <p>The verification team therefore concludes that as per host country legislation, environmental impacts due to solar power plants are not considered significant and hence Environmental Impact Assessment is not mandated.</p>
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D.6. Local stakeholder consultation

Means of Project Verification	DR, I																		
Findings	CAR 08 was raised and closed successfully. Please refer to Appendix 4 for further details.																		
Conclusion	<p>The local stakeholder consultation (LSC) was conducted for each project activity in the bundle at their respective project activity site as per GCC requirements. Details of the same are as follows:</p> <table border="1" data-bbox="496 927 1477 1431"> <thead> <tr> <th>Project Activity</th> <th>LSC Completion Date</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>RT Renewable Energy India Pvt. Ltd</td> <td>05/02/2022</td> <td>Paralachi, Virudhunagar, Tamilnadu</td> </tr> <tr> <td>SEI Phoebus Pvt. Ltd</td> <td>08/02/2022</td> <td>Paniur, Virudhunagar, Tamil Nadu</td> </tr> <tr> <td>SEI Adhavan Power Pvt. Ltd</td> <td>10/02/2022</td> <td>Veerakudi village, Tiruchuli taluk, Virudhnagar – dist., Tamil Nadu</td> </tr> <tr> <td>SEI Diamond Pvt. Ltd</td> <td>12/02/2022</td> <td>Survey no. 343, Varavukaval, Chitradurga, Karnataka</td> </tr> <tr> <td>SEI Venus Pvt. Ltd</td> <td>12/02/2022</td> <td>Survey no. 343, Varavukaval, Chitradurga, Karnataka</td> </tr> </tbody> </table> <p>The verification team confirms that the local stakeholder consultation process was performed by the project owner before the submission of the project activity for global stakeholder consultation.</p> <p>The relevant local stakeholders were invited through meeting notice /18/. The assessment team has reviewed the documentation in order to validate the inclusion of relevant stakeholders. The verification team confirms that the communication method used to invite the stakeholders is found to be appropriate.</p> <p>As detailed in the PSF /1-b/, the representative of GCC project owner explained technical aspects and GCC mechanism & its requirement of project to stakeholders, also explained about Social, Environmental benefits and UN sustainable development goal impacts of the project. Furthermore, the stakeholders were asked to answer a questionnaire to gauge their understanding of the project activity and address their concerns if any. The summary of comments presented in the PSF has been verified with the documentation of the stakeholder consultation /18/ as well as onsite interviews with various stakeholders /30/ and has been found to be complete and appropriate. No negative feedback was received. Contact details of the project owner i.e., phone numbers and emails have been provided to</p>	Project Activity	LSC Completion Date	Location	RT Renewable Energy India Pvt. Ltd	05/02/2022	Paralachi, Virudhunagar, Tamilnadu	SEI Phoebus Pvt. Ltd	08/02/2022	Paniur, Virudhunagar, Tamil Nadu	SEI Adhavan Power Pvt. Ltd	10/02/2022	Veerakudi village, Tiruchuli taluk, Virudhnagar – dist., Tamil Nadu	SEI Diamond Pvt. Ltd	12/02/2022	Survey no. 343, Varavukaval, Chitradurga, Karnataka	SEI Venus Pvt. Ltd	12/02/2022	Survey no. 343, Varavukaval, Chitradurga, Karnataka
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SEI Adhavan Power Pvt. Ltd	10/02/2022	Veerakudi village, Tiruchuli taluk, Virudhnagar – dist., Tamil Nadu																	
SEI Diamond Pvt. Ltd	12/02/2022	Survey no. 343, Varavukaval, Chitradurga, Karnataka																	
SEI Venus Pvt. Ltd	12/02/2022	Survey no. 343, Varavukaval, Chitradurga, Karnataka																	

	<p>the stakeholders and the details are also accessible on PO's website as a part of continuous grievance mechanism. This was confirmed by the verification team during on-site visit interviews /30/ with stakeholders and PO representatives.</p> <p>Therefore, the verification team concludes that the local stakeholder consultation process was adequately conducted by the project participant considering receiving unbiased comments from the all the relevant stakeholders. The verification team confirms that the local stakeholder consultation process performed for the bundled project activity fulfils the GCC requirements and all the LSC documents /18/ are verified and found acceptable.</p>
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D.7. Approval and Authorization- Host Country Clearance

Means of Project Verification	DR, I
Findings	FAR 01 has been raised in this context. Please refer to Appendix 4 for further details.
Conclusion	<p>As per the GCC Clarification No. 1 /B01-6/ the submission of Host Country Attestation on double counting is required by CORSIA labelled project after 31/12/2020. Therefore, for carbon credits issued during the period 07/02/2017 to 31/12/2020 the host country approval is not required.</p> <p>The verification team confirms that Host Country Attestation will be required and provided by the project owner during the first or subsequent verification when the issuance of carbon credit is considered beyond 31/12/2020.</p>

D.8. Project Owner- Identification and communication

Means of Project Verification	DR, I
Findings	No findings were raised pertaining to this section
Conclusion	<p>The project activity is a bundle involving 5 individual project activities legally owned by RT Renewable Energy India Pvt. Ltd, SEI Phoebus Pvt. Ltd, SEI Adhavan Power Pvt. Ltd, SEI Diamond Pvt. Ltd and SEI Venus Pvt. Ltd. The project verification team has also verified the company registration documents /4/, commissioning reports /8/ as well as the power purchase agreement /5/ to ascertain the legal ownership of the project activity and found the same to be acceptable.</p> <p>The entities involved have chosen SEI Adhavan Power Pvt. Ltd and Greenko Energies Private Limited to act as the project owner for the bundled project and same has been duly verified against the Letter of Authorization signed by all the legal owners and accepted by the designated project owner/25/. The information and contact details of the project owner have also been appropriately incorporated in Appendix 1 of the PSF. The verification team further confirms that the information of the project owner is provided as per the template and the information regarding the project owner stated in the PSF/1-b/ and authorization letter/25/ were found to be consistent and acceptable. The same is also in accordance with paragraph 18 of GCC Clarification No. 1 version 1.3 /B01-6/.</p>

D.9. Global stakeholder consultation

Means of Project Verification	DR, I
Findings	No findings pertaining to this section
Conclusion	The PSF was published for global stakeholder consultation from 12/12/2022 till 26/12/2022 (https://www.globalcarboncouncil.com/global-stakeholders-

	<p>consultation/). During the said period no Global stakeholders’ comments were received.</p> <p>The verification team therefore concludes that the process for global stakeholder consultation was conducted in accordance with the requirements of paragraphs 25 and 26 of the GCC Project Standard (version 3.1) /B01-1/. The PSF was made public for receiving stakeholder feedback and no comments were raised during the GSC process.</p>
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D.10. Environmental Safeguards (E+)

Means of Project Verification	DR, I					
Findings	CL 07 was raised and closed successfully. Please refer to 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. No risks to the environment were identified due to the project implementation and operation.</p> <p>The following have been identified as positive impacts of the project activity:</p> <p>Environment – Air- CO2 emissions: Use of solar energy for electricity production Environment – Natural Resources – Replacing fossil fuels with renewable sources of energy.</p> <p>Furthermore, risks are identified regarding Solid Waste Pollution from E-waste, during operational life of the project activity and project owner has provided appropriate mitigation plan for the same in section B.7.2 of the PSF /1/.</p> <p>The appropriate monitoring plan has been put in place to monitor the parameters scored and risks identified due to implementation of the project activity. The detailed matrix, including project verification team assessment, has been included in appendix 5 of this report.</p> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="background-color: #cccccc;">Impact of Project Activity on Environmental Safeguards</th> <th style="background-color: #cccccc;">Assessment</th> </tr> </thead> <tbody> <tr> <td>CO₂ emissions (EA03)</td> <td>In absence of the project activity, the electricity generated from the project activity would be generated in the Indian Grid by power plants that are predominantly fossil-fuel based, thereby leading to CO₂ emissions. The generated electricity by the project activity is based on the renewable energy source, which causes no CO₂ emissions. The project will thus have a positive impact by reducing measurable amount of CO₂ emissions. The project is expected to reduce CO₂ emission throughout the crediting period. As no negative environmental impacts are anticipated, the parameter is evaluated as harmless and scored a +1 by the project owner. This is accepted by the</td> </tr> </tbody> </table>		Impact of Project Activity on Environmental Safeguards	Assessment	CO ₂ emissions (EA03)	In absence of the project activity, the electricity generated from the project activity would be generated in the Indian Grid by power plants that are predominantly fossil-fuel based, thereby leading to CO ₂ emissions. The generated electricity by the project activity is based on the renewable energy source, which causes no CO ₂ emissions. The project will thus have a positive impact by reducing measurable amount of CO ₂ emissions. The project is expected to reduce CO ₂ emission throughout the crediting period. As no negative environmental impacts are anticipated, the parameter is evaluated as harmless and scored a +1 by the project owner. This is accepted by the
Impact of Project Activity on Environmental Safeguards	Assessment					
CO ₂ emissions (EA03)	In absence of the project activity, the electricity generated from the project activity would be generated in the Indian Grid by power plants that are predominantly fossil-fuel based, thereby leading to CO ₂ emissions. The generated electricity by the project activity is based on the renewable energy source, which causes no CO ₂ emissions. The project will thus have a positive impact by reducing measurable amount of CO ₂ emissions. The project is expected to reduce CO ₂ emission throughout the crediting period. As no negative environmental impacts are anticipated, the parameter is evaluated as harmless and scored a +1 by the project owner. This is accepted by the					

		<p>project verification team.</p> <p>This amount of emission reduction will be monitored as per monitoring plan in the PSF section B.7.1 and assessment of the same is provided section D.3.7 of the Project Verification Report.</p>
	<p>Solid waste Pollution from E-wastes (EL04)</p>	<p>The e-waste generated by the Project activity viz. Spares of SCADA system, inverters, and other electrical and electronic parts involved in the project or post their useful life will be disposed as per prevailing laws and regulations i.e. E-Waste (Management) Rules, 2011 /B23/.</p> <p>Monitoring plan is provided in section B.7.2 of the PSF to ensure the compliance with the regulations in place. The same will be monitored throughout the crediting period by the project owner by means of records of e-waste re-used/recycled/refurbished or disposal from the project activity. The same was confirmed during the onsite assessment /30/ and accepted by the verification team. The monitoring plan provided is provided in section B.7.2 is appropriate and assessment of the same is provided section D.3.7 of the Project Verification Report.</p>
	<p>Replacing fossil fuels with renewable sources of energy (ENR07)</p>	<p>In absence of the project activity, the equivalent amount of electricity would be generated from the operation of grid-connected power plants, which is GHG intensive. The project activity generates and supplies renewable solar sourced based electricity to the grid, where it replaces fossil fuel source-based electricity, thus the project activity is unlikely to cause any harm and is assessed as harmless.</p> <p>As the project activity will have a positive impact by replacing fossil fuels with renewable sources of energy, the parameter is evaluated as harmless and scored a +1 by the project owner. This is accepted by the project verification team.</p> <p>This amount of emission reduction will be monitored as per monitoring plan in the PSF section B.7.1 and assessment of the same is provided section D.3.7 of the Project Verification Report.</p>
	<p>The verification team confirms that the project owner has conducted assessment and reporting of the potential aspects which are identified for each project type as per appendix 1 of the GCC Project Environmental and Social Safeguards standard version 3.0/B01-4/ and is applicable to the Project activity and the monitoring procedure of each is given in section E.1, B.7.1, and B.7.2 of the PSF. Therefore, it can be concluded that the Project Activity is not likely to cause any harm to the environment and net score for the project comes out to be +3, hence, is eligible to achieve additional E+ certification.</p> <p>The GCC Verifier certifies that the Project Activity is not likely to cause any net harm to environment.</p>	

D.11. Social Safeguards (S+)

Means of Project Verification	DR, I							
Findings	CL 07 was raised and closed successfully. Please refer to 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. No risks to society were identified due to the project implementation and operation.</p> <p>The following have been identified as positive impacts of the project activity: Social – Jobs – Long-term jobs (> 1 year) created/ lost. New short-term jobs (< 1 year) created/ lost Social – Health & Safety – Efficiency of Health Services Social – Education - Specialized training / education to local personnel</p> <p>Furthermore, risks are identified regarding accidents/incidents during operational life of the project activity and project owner has provided appropriate mitigation plan for the same in section B.7.2 of the PSF.</p> <p>The appropriate monitoring plan has been put in place to monitor the elements scored in social safeguard section E .2 of the PSF /1/. The detailed matrix, including project verification team assessment, has been included in appendix 6 of this report.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; padding: 5px;">Impact of Project Activity on Social Safeguards</th> <th style="width: 60%; padding: 5px;">Assessment</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px; vertical-align: top;">Long-term jobs (> 1 year) created/ lost (SJ01)</td> <td style="padding: 5px; vertical-align: top;"> The project activity will lead to long term employment generation during the operational phase which can be verified from the employment records /36/ maintained on site for each project activity. The monitoring approach is discussed in section D.3.7 of this report. The aforementioned documents can be verified during issuance verification in accordance with the monitoring plan in the PSF section B.7.1. and E.2 The creation of permanent jobs is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team. </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;">Short-term jobs (< 1 year) created/ lost (SJ02)</td> <td style="padding: 5px; vertical-align: top;"> The project activity has led to short term employment generation during the construction and the operational phase which can be verified from the employment records /36/ maintained on site for each project activity. The monitoring approach is discussed in section D.3.7 of this report. The aforementioned documents can be verified during issuance verification in accordance with the monitoring </td> </tr> </tbody> </table>		Impact of Project Activity on Social Safeguards	Assessment	Long-term jobs (> 1 year) created/ lost (SJ01)	The project activity will lead to long term employment generation during the operational phase which can be verified from the employment records /36/ maintained on site for each project activity. The monitoring approach is discussed in section D.3.7 of this report. The aforementioned documents can be verified during issuance verification in accordance with the monitoring plan in the PSF section B.7.1. and E.2 The creation of permanent jobs is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.	Short-term jobs (< 1 year) created/ lost (SJ02)	The project activity has led to short term employment generation during the construction and the operational phase which can be verified from the employment records /36/ maintained on site for each project activity. The monitoring approach is discussed in section D.3.7 of this report. The aforementioned documents can be verified during issuance verification in accordance with the monitoring
Impact of Project Activity on Social Safeguards	Assessment							
Long-term jobs (> 1 year) created/ lost (SJ01)	The project activity will lead to long term employment generation during the operational phase which can be verified from the employment records /36/ maintained on site for each project activity. The monitoring approach is discussed in section D.3.7 of this report. The aforementioned documents can be verified during issuance verification in accordance with the monitoring plan in the PSF section B.7.1. and E.2 The creation of permanent jobs is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.							
Short-term jobs (< 1 year) created/ lost (SJ02)	The project activity has led to short term employment generation during the construction and the operational phase which can be verified from the employment records /36/ maintained on site for each project activity. The monitoring approach is discussed in section D.3.7 of this report. The aforementioned documents can be verified during issuance verification in accordance with the monitoring							

		<p>plan in the PSF section B.7.1. and E.2</p> <p>The creation of temporary jobs is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.</p>
	<p>Specialized training / education to local personnel (SE01)</p>	<p>As per the PSF/1-b/ and interview with the project owner/30/, the project owner would impart training to the local youth periodically so as to increase the skill set of on operation and maintenance of project; occupational safety, first aid, accident reporting etc. The monitoring approach is discussed in section D.3.7 of this report.</p> <p>The same could be verified from the training records/20/ and interviews with the employees /30/ to confirm the same during issuance verification in accordance with the monitoring plan in the PSF /1/ section B.7.1. and E.2.</p> <p>The parameter is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.</p>
	<p>Reducing / increasing accidents/Incidents/f atality (SHS03)</p>	<p>As per the PSF /1-b/, records of major accidents/incidents in a year will be monitored through EHS records. The project owner shall provide the job-related Health and safety trainings to its employees on regular interval, and the number of accidents occurred can be verified at the time on emission reduction verification in accordance with the monitoring plan in the PSF /1/ section B.7.1. and E.2. The monitoring approach is discussed in section D.3.7 of this report.</p> <p>The impact created by the project is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.</p>
	<p>Efficiency of health services (SHS07)</p>	<p>The project owner will organize medical camps including distribution of medicines and vaccines for the local people. The number of health camps conducted, vaccines distributed, and Medicine distributed will be monitored once in four years.</p> <p>The same could be verified during issuance verification in accordance with the monitoring plan in the PSF /1/ section B.7.1. and E.2.</p> <p>The parameter is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to</p>

		monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.
<p>The verification team confirms that the project owner has conducted assessment and reporting of the potential aspects which are identified for each project type as per appendix 1 of the GCC Project Environmental and Social Safeguards standard version 3.0/B01-4/ and is applicable to the Project activity and the monitoring procedure of each is given in section E.1, B.7.1, and B.7.2 of the PSF. Therefore, it can be concluded that the Project Activity is not likely to cause any harm to society and net score for the project comes out to be +5, hence, is eligible to achieve additional S+ certification.</p> <p>The GCC Verifier certifies that the Project Activity is not likely to cause any net harm to society.</p>		

D.12. Sustainable development Goals (SDG+)

Means of Project Verification	DR, I	
Findings	CL 08 was raised and closed successfully. Please refer to Appendix 4 for further details.	
Conclusion	<p>The project Activity demonstrates that it contributes to achieving the United Nations Sustainable Development Goals (SDGs). Of the 17 defined Goals, the project activity has no adverse effect on any and is expected to contribute to 6 SDGs. Hence the Project owner has chosen to apply for the United Nations Sustainable Development Goals (SDG+ label). The detailed assessment of the impact of the project activity on each of the targeted SDG's has been carried out in section F of the PSF by the project owner and Annexure 7 of this report.</p> <p>The 6 SDGs targeted for the SDG+ Label are:</p> <p>Goal 3: Ensure healthy lives and promote well-being for all at all ages Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation Goal 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all Goal 13: Take urgent action to combat climate change and its impacts.</p>	
	UN-level SDGs	Assessment
	Goal 3. Ensure healthy lives and promote well-being for all at all ages SDG Target 3.8: Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential	The project owner will organize medical camps including distribution of medicines and vaccines for the local people. The number of health camps conducted, vaccines distributed, and Medicine distributed will be monitored once in four years and should be verified during ER verification stage. PO has provided a declaration /38/ which states that some activities performed to achieve SDG 3 targets are beyond CSR, which is deemed acceptable to the project verification

	<p>medicines and vaccines for all</p> <p>Indicator 3.8.1: Coverage of essential health services</p>	<p>team.</p> <p>The parameter being monitored in the monitoring plan is found adequate. This has been discussed under section D.3.7 of this report.</p>
	<p>Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</p> <p>SDG Target 4.4: By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship</p> <p>Indicator 4.4.1: Proportion of youth and adults with information and communications technology (ICT) skills, by type of skill</p>	<p>The project owner will conduct training on relevant technologies to empower local stakeholders with digital literacy. Records of trainings and workshops conducted should be verified during the ER Verification stage along with the number of people trained over the crediting period.</p> <p>The parameter being monitored in the monitoring plan is found adequate. This has been discussed under section D.3.7 of this report.</p>
	<p>Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all</p> <p>SDG target 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix</p> <p>Indicator 7.2.1: Renewable energy share in the total final energy consumption</p>	<p>The project activity is a bundled solar power project with an installed capacity of 175 MW and it generates electricity of 278,593 MWh per year. The start date of the project activity is 08/02/2016 (earliest start date of operation amongst the project activities involved in the bundle) and it continues to provide clean energy, thereby increasing the renewable energy share in the total final energy consumption thereby complying with the SDG target 7.2. The same was duly verified by the verification team from commissioning reports/8/ and electricity generation records /11/.</p> <p>The generated power is continuously monitored by the energy meters installed at the substation and details of the same are included in the PSF/1-b/ and found to be acceptable.</p>
	<p>Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p>	<p>PO will ensure to protect labour rights by implementing strict EHS policy /24/ and through safety trainings, and display of safety</p>

	<p>SDG Target 8.8: Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment.</p> <p>Indicator 8.8.1: Fatal and non-fatal occupational injuries per 100,000 workers, by sex and migrant status</p>	<p>posters/guidelines at project sites. The number of major accidents/incidents will be monitored through EHS records which should be verified during ER Verification stage.</p> <p>The parameter being monitored in the monitoring plan is found adequate. This has been discussed under section D.3.7 of this report.</p>
<p>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>SDG target 9.2: Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries</p> <p>Indicator: 9.2.2: Manufacturing employment as a proportion of total employment</p>	<p>The project will provide employment opportunities to at least 10 eligible candidates for operations of the renewable energy related project activity. This can be verified from the employment records maintained on site.</p> <p>The parameter being monitored in the monitoring plan 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>SDG target 13.2: Integrate climate change measures into national policies, strategies and planning.</p> <p>Indicator 13.2.2: Total greenhouse gas emissions per year.</p>	<p>The project is estimated to achieve GHG emission reduction of 259,231 tCO₂e/year, thereby meeting the SDG target 13.2.</p> <p>The generated power is continuously monitored by the energy meters installed at the substation and details of the same are included in the PSF/1-b/ and found to be acceptable.</p>	
<p>The verification team confirms that the SDGs chosen by the project owner are in compliance with the paragraph 19, 20 and 21 GCC Project sustainability standard version 3.0/B01-5/ 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. It can therefore be concluded that the Project Activity is likely to contribute to the United Nations Sustainable Development Goals and would have a positive impact, hence, is eligible to achieve additional Diamond SDG+ certifications.</p>		

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

Means of Project Verification	DR, I
Findings	FAR 01 has been raised. Please refer to Appendix 4 for further details.
Conclusion	<p>A declaration under section A.5 of the PSF has been included for use of the approved carbon credits (ACCs) for the entire crediting period from 07/02/2017 to 06/02/2027 to offset GHG emissions.</p> <p>The project owner has clarified the intention for use of carbon credits for CORSIA. The project owner declared that no host country attestation is required for the pilot phase of 2021-23 (accepting credits issued for monitoring periods between 2016 and 2020), which is appropriate and acceptable according to paragraph 16 of the Standard on Avoidance of Double Counting, version 1.0 /B01-7/. Assessment with regards to confirmation on the project activity not being registered under any other GHG reduction certification mechanism, thereby avoiding double counting is provided under section D.2 of this report.</p> <p>The host country attestation is yet to be obtained for authorization on double counting. The verification team confirms that Host Country Attestation will be required and provided by the project owner during the first or subsequent verification when the issuance of carbon credit is considered beyond 31/12/2020.</p>

D.14. CORSIA Eligibility (C+)

Means of Project Verification	DR, I
Findings	FAR 01 has been raised. Please refer to Appendix 4 for further details.
Conclusion	<p>The project activity meets the CORSIA Eligibility criteria as the crediting period is after 01/01/2016 and the project is applying for registration under GCC, which is one of the approved programmes for eligibility. It was also confirmed that the project activity does not fall under the excluded unit types, methodologies, programme elements, and/or procedural classes.</p> <p>Furthermore, the Project Activity does not cause any net harm to the environment and/or society and therefore achieves Environmental No-net-harm Label (E+) as well as Social No-net-harm Label (S+) in accordance with the Environmental and Social Safeguards Standard, version 3.0. The project activity also contributes towards achieving United Nations Sustainable Development Goals (SDGs) by achieving 6 SDGs as per Project Sustainability Standard, version 3.0 to achieve SDG+ Label.</p> <p>The verification team therefore concludes that “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., v 1.3 paragraph 23-25, and the ACCs expected to be issued during the crediting period is likely to be CORSIA eligible and can be used by International Airlines for offsetting their emissions during all phases of CORSIA and therefore requests GCC Steering Committee to append CORSIA Certification label (C+) to this project”.</p> <p>As per Clarification No.1 version 1.3 /B01-6/, for carbon credits generated during 01/01/2016 to 31/12/2020, Host Country Attestation is not required for CORSIA labeled credits. For carbon credits generated since 01/01/2021, HCA will be submitted by PO prior to submission of requesting issuance for emission reductions to the GCC Program. Therefore, a FAR has been raised in this respect.</p>

Section E. Internal quality control

The Verification report has undergone a technical review and quality review before being submitted to the project owner. A technical reviewer is qualified in accordance with CCIPL's qualification scheme for GCC verification performed the technical review.

Section F. Project Verification opinion

The GCC Project Verifier, Carbon Check (India) Private Ltd, verifies and certifies that the GCC Project Activity "SEI Adhavan 175MW bundled solar power project in Tamil Nadu and Karnataka, INDIA":

- (a) has correctly described the Project Activity in the Project Submission Form (version 1.3, dated 30/11/2023) including the applicability of the approved GCC methodology, GCCM001, version 3.0 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 GHG emission reductions amounting to the estimated 2,592,312 tCO₂e (for the fixed 10 years crediting period), as indicated in the PSF, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable GCC rules 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, version 3.0 and therefore requests the GCC Program to register the Project Activity, which is likely to achieve the requirements of the Environmental No-net-harm Label (E+) and the Social No-net harm Label (S+); and
- (d) is likely to contribute to the achievement of United Nations Sustainable Development Goals (SDGs), comply with the Project Sustainability Standard, version 3.0 and contribute to achieving a total of 6 SDGs, which is likely to achieve the Diamond SDG certification label (SDG+).
- (e) 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., v 1.3 paragraph 23-25, and the ACCs expected to be issued during the crediting period is likely to be CORSIA eligible and can be used by International Airlines for offsetting their emissions during all phases of CORSIA and therefore requests GCC Steering Committee to append CORSIA Certification label (C+) to this project.

Project Verification Report

The Verification report describes a total of 20 findings, which include:


- 01 Forward Action Request (FAR);
- 11 Clarification Requests (CLs);
- 08 Corrective Action Requests (CARs)

All findings are resolved by the project owner (except the FAR which needs to be resolved during emission reduction verification).

Appendix 1. Abbreviations

Abbreviations	Full texts
ACC	Approved Carbon Credits
BM	Build Margin
CAR	Corrective Action Required
CC IPL	Carbon Check (India) Private Limited
CERC	Central Electricity Regulatory Commission
CDM	Clean Development Mechanism
CL	Clarification Request
CM	Combined Margin
CORSIA	Carbon Offsetting and Reduction Scheme for International Aviation
DNA	Designated National Authority
DR	Document Review
E+	Environmental No net harm Label
EIA	Environmental Impact Assessment
FAR	Forward Action Request
GCC	Global Carbon Council
GHG	Green House Gas
GORD	Gulf Organization for Research and Development
GSC	Global Stakeholder Consultation
I	Interview
IRR	Internal Return Rate
ISO	International Organization for Standardization
Kw	Kilo Watt
KWh	Kilo Watt hour
LSC	Local Stakeholder Consultation
MENA	Middle East & North Africa
MNRE	Ministry of New & Renewable Energy, Government of India.
MW	Mega Watt
MWh	Mega Watt hour
OM	Operating Margin
PO	Project Owner
PPA	Power Purchase Agreement
PLF	Plant load factor
PS	Project Standard
PSF	Project Submission Form
PVR	Project Verification Report
S+	Social No- net harm Label
SDG+	United Nation Sustainable Development Goal Label
SERC	State Electricity Regulatory Commission
tCO ₂ e	Tonnes of Carbon dioxide equivalent
UNFCCC	United Nations Framework Convention on Climate Change
V	Version
VB	Verification Body
VS	Verification Standard

Appendix 2. Competence of team members and technical reviewers



Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Mr. Sanjay Agarwalla

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 and Bangladesh		

in the following Technical Areas:

<input checked="" type="checkbox"/> TA 1.1	<input checked="" type="checkbox"/> TA 1.2	<input checked="" type="checkbox"/> TA 2.1	<input checked="" type="checkbox"/> TA 3.1	<input checked="" type="checkbox"/> TA 4.1
<input type="checkbox"/> TA 4. n	<input checked="" type="checkbox"/> TA 5.1	<input checked="" type="checkbox"/> TA 5.2	<input checked="" type="checkbox"/> TA 7.1	<input type="checkbox"/> TA 8.1
<input checked="" type="checkbox"/> TA 9.1	<input checked="" type="checkbox"/> TA 9.2	<input checked="" 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
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CCIPL_FM 7.9 Certificate of Competency_V2.1_012023



Carbon Check (India) Private Limited

Certificate of Competency

Mr. Manas Halder

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

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 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	Provider
/1/	PO	a) Webhosted PSF	version 1.2, dated 29/11/2022	PO
		b) Final PSF	Version 1.3 Dated 30/11/2023	
/2/	PO	a. Emission reduction calculation spread sheet including grid emission factor calculation corresponding to /1-a/	<i>Adhavan ER sheet.xls</i> version 1.2, dated 29/11/2022	PO
		b. Emission reduction calculation spread sheet including grid emission factor calculation corresponding to /1-b/	<i>Adhavan ER sheet.xls</i> Version 1.3 Dated 30/11/2023	
/3/	PO	a. IRR spread sheet corresponding to /1-a/	<i>Adhavan bundle - Investment Analysis - Base</i> , version 1.2, dated 29/11/2022	PO
		b. IRR spread sheet corresponding to /1-b/	<i>Adhavan bundle - Investment Analysis - Base</i> , version 1.3, dated 30/11/2023	
		IRR sheet with actual values used for analysis	Version 1.0 dated 30/11/2023	
/4/	Ministry of Corporate Affairs	Legal status of the project owners (Company Master data) viz: a. M/s RT Renewable Energy India Pvt. Ltd b. M/s SEI Phoebus Pvt. Ltd c. M/s SEI Adhavan Power Pvt. Ltd d. M/s SEI Venus Pvt. Ltd e. M/s SEI Diamond Pvt. Ltd Sourced from: Home (mca.gov.in)	Date of Incorporation: a. 28/03/2016 b. 08/02/2016 c. 31/03/2016 d. 28/03/2017 e. 28/03/2017	PO
/5/	M/s. RT Renewable Energy India Private Limited	Power Purchase Agreement entered between M/s. RT Renewable Energy India Private Limited and Tamil Nadu generation and distribution Corporation Limited (TANGEDCO)	Dated 30/06/2015	PO

Project Verification Report

	TANGEDCO			
	M/s. SEI Phoebus Private Limited TANGEDCO	Power Purchase Agreement entered between M/s. SEI Phoebus Private Limited and Tamil Nadu generation and distribution Corporation Limited (TANGEDCO)	Dated 07/04/2015	PO
	M/s SEI Adhavan Power Private Limited TANGEDCO	Power Purchase Agreement entered between M/s SEI Adhavan Power Private Limited and Tamil Nadu generation and distribution Corporation Limited (TANGEDCO).	Dated 28/05/2015	PO
	M/s SEI Venus Private Limited Hubli ESCOM	Power Purchase Agreement entered between M/s SEI Venus Private Limited and M/s Hubli electricity Supply Company Limited (ESCOM)	Dated 18/12/2014	PO
	SEI Diamond Private Limited BESCOM	Power Purchase Agreement entered between M/s SEI Diamond Private Limited and M/s Bangalore Electricity Supply Company Limited (BESCOM)	Dated 18/12/2014	PO
/6/	PO	Evidence for the project location (all the five project activities in the bundle) including photographs, nameplates of the installed units, and technical specifications of key project equipment installed at site	-	PO
/7/	PO	IR Records for all the five project activities in the bundle from the year of start of operations	From start of operations	PO
/8/	PO	Commissioning reports of all the project activities in the bundle: a. M/s RT Renewable Energy India Pvt. Ltd b. M/s SEI Phoebus Pvt. Ltd c. M/s SEI Adhavan Power Pvt. Ltd d. M/s SEI Venus Pvt. Ltd e. M/s SEI Diamond Pvt. Ltd	Dated a. 28/03/2016 b. 08/02/2016 c. 31/03/2016 d. 28/03/2017 e. 28/03/2017	PO
/9/	Tamilnadu generation and distribution Corporation LTD	Calibration Certificates for meters installed for M/s RT Renewable Energy India Pvt. Ltd - S No. TNW01839 - S No. TNW01840 - S No. HT02150007	Dated 23/05/2023	PO
		Calibration Certificates for meters installed for M/s SEI Phoebus Pvt. Ltd: - S No. XC476265 - S No. XC476266 - S No. 15196297	Dated 23/05/2023	
		Calibration Certificates for meters installed for M/s SEI Adhavan Power Pvt. Ltd: - S No. 16194516 - S No. 16194531 - S No. 16194538	Dated 23/05/2023	
	Bangalore Electricity Supply Company Limited	Calibration Certificates for meters installed for M/s SEI Venus Pvt. Ltd - S No. 21005007 - S No. 21005091	Dated 18/08/2023	
		Calibration Certificates for meters installed for	Dated	

Project Verification Report

		M/s SEI Diamond Pvt. Ltd - S No. 21007411 - S No. 21007428	18/08/2023	
/10/	SunEdison Solar Power India Pvt Ltd	Purchase Order for RT Renewable Energy India Pvt. Ltd	Dated 20/04/2015	PO
		Purchase Order for SEI Adhavan Power Pvt. Ltd	Dated 12/11/2015	
		Purchase Order for SEI Phoebus Pvt. Ltd	Dated 05/05/2015	
	SMA Solar Technology AG	Supply Agreement between SEI Venus Pvt. Ltd ad SMA Solar Technology AG for central inverters	Dated 12/10/2016	
Risen Energy Co., Ltd.	Supply Agreement between SEI Diamond Pvt. Ltd ad Risen Energy Co., Ltd. for PV modules	Dated 19/09/2016		
/11/	PO	Monthly Generation records: - M/s RT Renewable Energy India Pvt. Ltd - M/s SEI Phoebus Pvt. Ltd - M/s SEI Adhavan Power Pvt. Ltd - M/s SEI Venus Pvt. Ltd - M/s SEI Diamond Pvt. Ltd	For: - April 2016 – December 2022 - April 2017 – February 2023 - November 2017 – January 2023 - April 2017 – March 2023 - April 2017 – March 2023	PO
/12/	PO	Single line diagram for the 5 project activities, from electricity generation to the electricity feed point at grid interconnection	-	PO
/13/	RT Renewable Energy India Pvt Ltd SEI Phoebus Pvt Ltd SEI Adhavan Power Pvt Ltd SEI Venus Pvt Ltd SEI Diamond Pvt Ltd	Sample Electricity Invoices for all 5 project activities	FY 2021 FY 2022	PO
/14/	PTC India Financial Services Ltd.	Loan sanction letter for M/s RT Renewable Energy India Pvt. Ltd	Dated 07/06/2016	PO
	IDBI Bank	Loan sanction letter for M/s SEI Phoebus Pvt. Ltd	Dated 10/06/2015	
	L&T Infrastructure Finance Company Limited	Loan sanction letter for M/s SEI Adhavan Power Pvt. Ltd	Dated 29/10/2015	

Project Verification Report

	IDBI Trusteeship Service Limited	Loan sanction letter for M/s SEI Venus Pvt. Ltd	Dated 05/09/2017	
	IDBI Trusteeship Service Limited	Loan sanction letter for M/s SEI Diamond Pvt. Ltd	Dated 05/09/2017	
/15/	Tamil Nadu Electricity Regulatory Commission	Tariff Order No. 7 of 2014 http://www.tnerc.gov.in/Orders/files/TO-Order%20No%204240220211316.pdf http://www.tnerc.gov.in/Orders/files/TO-Order%20No4110920231051.pdf	Dated 12/09/2014	PO
	Karnataka Renewable Energy Development Ltd.	Letter of Award for M/s SEI Diamond Pvt. Ltd and M/s SEI Venus Pvt. Ltd – No. KREDL/07/GC/500 MW- LOA/SEEHPL/2014-15/4537	Dated 19/11/2014	
/16/	PO	Sample solid waste records for all the 5 project activities	FY 2021-2022	PO
/17/	CEA	India's National Electricity Network Emission Factor (Grid EF calculations) - Central Electricity Authority (CEA) database https://cea.nic.in/cdm-co2-baseline-database/?lang=en	Version 17, October 2021	PO
/18/	PO	All evidence related to Local Stakeholders Consultation process for all the 5 project activities: M/s RT Renewable Energy India Pvt. Ltd Invitation notice, dated 25/01/2022 Attendance Sheet, dated 05/02/2022 Photos Feedback forms, dated 05/02/2022 M/s SEI Phoebus Pvt. Ltd Invitation notice, dated 25/01/2022 Attendance Sheet, dated 08/02/2022 Photos Feedback forms, dated 08/02/2022 M/s SEI Adhavan Power Pvt. Ltd Invitation notice, dated 28/01/2022 Attendance Sheet dated 10/02/2022. Photos Feedback forms, dated 10/02/2022 M/s SEI Venus Pvt. Ltd Invitation notice, dated 28/01/2022 Attendance Sheet, dated 12/02/2022 Photos Feedback forms, dated 12/02/2022 M/s SEI Diamond Pvt. Ltd Invitation notice, dated 28/01/2022 Attendance Sheet, dated 12/02/2022 Photos Feedback forms, dated 12/02/2022	LSC Dates RT - 05/02/2022 Phoebus - 08/02/2022 Adhavan - 10/02/2022 Venus & Diamond - 12/02/2022	PO
/19/	RT Renewable Energy India Pvt Ltd SEI Phoebus	ODA Declaration for M/s RT Renewable Energy India Pvt. Ltd, M/s SEI Phoebus Pvt. Ltd, M/s SEI Adhavan Power Pvt. Ltd, M/s SEI Venus Pvt. Ltd, M/s SEI Diamond Pvt. Ltd	-	PO

Project Verification Report

	Pvt Ltd SEI Adhavan Power Pvt Ltd SEI Venus Pvt Ltd SEI Diamond Pvt Ltd			
/20/	RT Renewable Energy India Pvt Ltd	Sample Training Records including photographs, attendance sheet, feedback forms, training material and questionnaires for years 2020, 2021, and 2022	FY 2022-2023	PO
	SEI Phoebus Pvt Ltd	Sample Training Attendance sheets and photographs for the years 2019, 2020, 2021, 2022 and 2023	FY 2022-2023	
	SEI Adhavan Power Pvt Ltd	Sample Training Records: Photographs and attendance sheets for the years 2021 and 2022	FY 2022-2023	
	SEI Venus Pvt Ltd	Sample Training Records including photographs, attendance sheet, feedback forms, training material and questionnaires for years 2020, 2021, and 2022	FY 2020-2023	
	SEI Diamond Pvt Ltd	Sample Training Records including photographs, attendance sheet, feedback forms, training material and questionnaires for years 2020, 2021, and 2022	FY 2020-2023	
/21/	PO	Sample Accident and Incident Records for all the 5 project activities	April 2021 - March 2022	PO
/22/	Greenko	Greenko Corporate Social Responsibility Policy	Dated 18/01/2022	PO
/23/	Greenko	Greenko Sustainability Policy	Dated 19/04/2022	PO
/24/	Greenko	Greenko Integrated Management System (GIMS) Policy	Dated 03/03/2020	
/25/	RT Renewable Energy India Pvt Ltd SEI Phoebus Pvt Ltd SEI Adhavan Power Pvt Ltd SEI Venus Pvt Ltd SEI Diamond Pvt Ltd	Letter of Authorization issued by M/s RT Renewable Energy India Pvt. Ltd, M/s SEI Phoebus Pvt. Ltd, M/s SEI Adhavan Power Pvt. Ltd, M/s SEI Venus Pvt. Ltd, M/s SEI Diamond Pvt. Ltd to authorize M/s SEI Adhavan Power Pvt. Ltd and Greenko Energies Private Limited as the Project Owners.	Dated 03/10/2023	PO
/26/	Press Information Bureau Government of India Ministry of Environment, Forest and Climate Change.	Re-Categorisation of Industries a landmark decision, new category of white industries will not require environmental clearance	Dated 05/03/2016	PO
/27/	TANGEDCO	M/s. SEI Adhavan Power (P) Ltd., Invoice for Export of Power – Tariff rate fixed Rs. 5.10/unit	Dated 28/03/2016	PO
	Karnataka Electricity	OP No. 213/2017 between SEI Diamond Private	Dated 26/09/2019	

Project Verification Report

	Regulatory Commission	Limited, SEI Venus Private Limited and Bangalore Electricity Supply Company Limited, Hubli Electricity Supply Company Limited, Karnataka Power Transmission Corporation Limited – Tariff rate fixed at Rs. 6.51 per unit		
/28/	PO	Sample welfare records for all the 5 project activities including pictures	FY 2020-2023	PO
/29/	PO	Sample employee health coverage records (Checkup reports) for all the 3 project activities	FY 2020-2023	PO
/30/	CC IPL	Audit notes and photographs	Dated 07/02/2023 – 09/02/2023	CC IPL
/31/	CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI	Determination of generic levellised generation tariff for the FY 2014-15 under Regulation 8 of the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012. https://cercind.gov.in/2014/orders/SO354.pdf	Dated 15/05/2014	Others
/32/	Reserve Bank of India	Results of the Survey of Professional Forecasters on Macroeconomic Indicators – 29th Round (Third Bi-monthly: July 2014) https://m.rbi.org.in/Scripts/PublicationsView.aspx?id=15774	Dated 05/08/2014	Others
		Results of the Survey of Professional Forecasters on Macroeconomic Indicators – 30th Round https://m.rbi.org.in/Scripts/PublicationsView.aspx?id=16049	Dated 30/09/2014	
/33/	SAI CHAITHANYA & CO CHARTERED ACCOUNTANTS	CA Certificates for M/s RT Renewable Energy India Pvt. Ltd, M/s SEI Phoebus Pvt. Ltd, M/s SEI Adhavan Power Pvt. Ltd, M/s SEI Venus Pvt. Ltd, M/s SEI Diamond Pvt. Ltd as evidence for actual project cost	Dated 25/02/2022	PO
/34/	Central Electricity Authority	Plant wise details of all India renewable energy projects https://cea.nic.in/wp-content/uploads/2020/04/Plant-wise-details-of-RE-Installed-Capacity-merged.pdf	Dated 20/03/2020	Others
/35/	Reserve Bank of India	Results of the Survey of Professional Forecasters on Macroeconomic Indicators – 27th Round (Q4:2013-14) https://www.rbi.org.in/Scripts/PublicationsView.aspx?id=15729	Dated 01/04/2014	Others
/36/	PO	Long term and short term employment records for all 5 project activities	FY 2021 - 2023	PO
/37/	Ministry of New and Renewable Energy (MNRE)	Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects https://odishainnovationcell.nic.in/Content/SIC/Articles/RE_Development_Impacts_in_India.pdf	Dated September 2013	Others
/38/	RT Renewable Energy India Pvt Ltd	Declaration for SDG 3 activities performed beyond CSR	Dated 21/10/2023	PO

Project Verification Report

	SEI Phoebus Pvt Ltd SEI Adhavan Power Pvt Ltd SEI Venus Pvt Ltd SEI Diamond Pvt Ltd			
/B01/	GCC	<ol style="list-style-type: none"> 1. GCC Project Standard, version 3.1 2. GCC Verification Standard, version 3.1 3. GCC Program Manual, version 3.1 4. Environment-and-Social-Safeguards-Standard, version 3.0 5. Project-Sustainability-Standard, version 3.0 6. GCC Clarification No. 1, version 1.3 7. GCC Standard on Avoidance of Double Counting, version 1.0 8. GCC Clarification No. 3, version 1.0 	-	Others
/B02/	GCC	GCC Methodology: GCCM001 Methodology for Renewable Energy Generation Projects Supplying Electricity to Grid or Captive Consumers	version 3.0	Others
/B03/	GCC	PSF template	-	Others
/B04/	UNFCCC	Tool 01: Tool for demonstration and assessment of additionality	Version 7.0.0	Others
/B05/	UNFCCC	Tool 07: Tool to calculate the emission factor for an electricity system	Version 7.0	Others
/B06/	UNFCCC	Tool 24: Common practice	Version 3.1	Others
/B07/	UNFCCC	Tool 27: Investment analysis	Version 12.0	Others
/B08/	CDM	https://cdm.unfccc.int/Projects/proj_search.html	-	Others
/B09/	VERRA	https://registry.verra.org/app/search/VCS/All%20Projects	-	Others
/B10/	Gold Standard	GSF Registry (goldstandard.org)	-	Others
/B11/	Indian REC Standard	Renewable Energy Certificate Registry https://www.recregistryindia.nic.in/index.php/publics/registered_regens	-	Others
/B12/	I.REC Standard	International REC Standard (I-REC) https://www.irecstandard.org/registries/	-	Others
/B13/	Govt. of India	Electricity Act 2003, dated 26/05/2003	-	Others
/B14/	Govt. of India	National Electricity Policy 2005, dated 12/02/2005		
/B15/	Govt. of India	National Tariff Policy, 2006	-	Others
/B16/	Govt. of India	National Action Plan on Climate Change (NAPCC), 2008	-	Others
/B17/	Govt. of India	Renewable Energy Certificates (RECs), 2011	-	Others
/B18/	Govt. of India	National Solar Mission	-	Others
/B19/	Govt. of India	Companies Act 2013	-	Others
/B20/	Ministry of Environment,	Environmental Impact Assessment notification 1_SO1533E_14092006.pdf	Dated 14/09/2006	Others

	Forest and Climate Change Govt. of India	environmentclearance.nic.in Environmental Impact Assessment notification Amendment	Dated 14/07/2018	
/B21/	Ministry of Environment, Forest and Climate Change Govt. of India	Applicability of Environment Impact Assessment Notification, 2006 on Solar Photo Voltaic (PV) Power Projects; Solar Thermal Power Plants; and development of Solar Parks	Dated 07/07/2017	Others
/B22/	CCIPL	Contract signed between CCIPL and M/s SEI Adhavan Power Pvt Ltd	Dated 21/06/2022	CCIPL
/B23/	Central Pollution Control Board (CPCB)	E-Waste (Management) Rules, 2011	Dated May 2011	Others

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

Table 1. CLs from this project verification

CL ID	01	Section no.	-	Date: 17/02/2023
Description of CL				

Project Verification Report

PO is requested to provide the following supporting documents for all the five project activities in the bundle:

1. Proof of Legal Ownership
 2. Power Purchase Agreements
 3. Commissioning Certificates
 4. Technical specification document of installed Solar PV modules, Inverters and Transformers
 5. Joint Meter Reading Records (since the commissioning of project till date)
 6. Sample Invoices raised for FY 2021-2022
 7. Generation Records (since the commissioning of project till date)
 8. Sample On site electricity consumption records
 9. Evidence for Investment decision date
 10. Loan sanction letters
 11. O&M Agreement
 12. Contracts with PCB certified vendors and records of end of life waste, solid waste generation and disposal.
 13. Approval for usage of Ground water, if applicable
 14. Details of workers employed / contracts signed for long term during construction and operational stages
 15. Details of workers employed / contracts signed for short term during construction and operational stages
 16. Health coverage records
 17. Community and rural welfare contribution records
 18. Relevant Extracts of the HR policy / EHS policy and CSR Policy
 19. Accident / Incident Records
 20. Training records
 21. Acknowledgement from PCB for White Category Industry
 22. No ODA Undertaking/ declaration from the project owner
 23. Local Stakeholder Meeting Photographs, Attendance sheet, Minutes of Meeting, Questionnaire.
 24. Declaration of intended use of Approved Carbon Credits (ACCs)
- *Since is project activity is operational since 2016, Sample Records, covering the period from Start date to till date, for parameters mentioned under E+/S+/SGD+ to be provided.

Project Owner's response	Date: 03/07/2023
All the above documents are provided through mail except serial no. 11 and 13 are not applicable; for point 12: records are provided but no vendor's contractor for E waste disposal as there is no waste produced for disposal; for point 24: It is stated in sec A.5 of PSF.	
Documentation provided by Project Owner	
<i>Revised PSF and Supporting documents</i>	
Project verifier assessment	Date: 14/07/2023

The following discrepancies have been observed in the documents provided:

4. Technical specification document of Transformers for PA Adhavan, Venus and Diamond are not provided. Inverter name plate details 500KW and transformer details for 100KVA,30KVA not provided for PA Phoebus.

10. Debenture Trust Deeds provided for Venus and Diamond. PO to ascertain relevance as no information regarding the same is provided in the PSF.

12. PO has provided records for e-waste generation but no information is provided for Hazardous waste. Furthermore, no specific modes of disposal and contracts with PCB certified vendors have been provided.

13. Application for Permission for usage of Ground water – Not provided

14. PA specific Employee Lists have been provided. However, the same has not been segregated into those employed for long term (operational) and short term (construction and operational).

17. Community and rural welfare contribution records apart from photographs as the data source mentioned is “Allotment of funds”.

18. CSR, Sustainability and GIMS Policy has been provided. All the policies belong of “Greenko”, however no relationship between the PO and Greenko is mentioned in the PSF. PO to Clarify.

21. Acknowledgement from / Intimation to MoEF for White Category Industry – Not provided

23. While Local Stakeholder Meeting Attendance sheet, Invitation Notices have been provided, Photographs as well as Minutes of Meeting are missing for all the PAs. For PA Venus and Diamond only attendance sheet has been provided.

PO to also provide documents mentioned under specific CAR/CLs.
 PO is requested to provide only those documents that pertain to PAs in the bundle.
Hence, CL 01 remains open.

Project Owner’s response	Date: 30/11/2023
<p>4. Technical specification document of Transformers for PA Adhavan, Venus and Diamond are provided. Inverter name plate details 500KW and transformer details for 100KVA,30KVA provided for PA Phoebus.</p> <p>10. Information on Debenture Trust Deeds for Venus and Diamond are included in sec B.5</p> <p>12. PO has provided information regards to Hazardous waste, as these are solar projects there is negligible amount of this kind. Whereas for E waste, there is no quantity for disposal therefore no contracts with PCB certified vendors.</p> <p>13. During the implementation of the project activities, there are no mandatory regulations or guidelines for ground water usage/approval.</p> <p>14. Employee list pertaining to candidate project segregated into long term and short term is provided.</p> <p>17. Now PO is wishing not to claim for community and rural welfare as they are done under CSR.</p> <p>18. Relationship between the PO and Greenko is mentioned in the first paragraph of Sec. A.1 of the PSF as the project activities are the SPVs under “Greenko” and LOA is attached</p> <p>21. Acknowledgement from / Intimation to MoEF for White Category Industry is provided</p> <p>23. Photographs as well as Minutes of Meeting are provided for all the PAs. LSC invitation, LSC Attendance, photographs, Minutes of meeting are attached for Venus & Diamond</p>	
Documentation provided by Project Owner	
<i>Revised PSF and Supporting documents</i>	
Project verifier assessment	Date: 30/11/2023
The justification and the supporting documents provided by the PO are deemed acceptable to the project verification team. Hence, this CL is closed.	

Table 2.

CL ID	02	Section no.	D.3.6	Date: 17/02/2023
Description of CL				

Section B.2 of the PSF refers to onsite consumption of electricity “for site offices during maintenance and night time”. However, PO has not considered the same as project activity emission referring to it as a “Minor source of emission” in section B.3 of the PSF. PO is required to corroborate and justify the same in accordance with paragraph 26 of the applied methodology.	
Project Owner’s response	Date: 01/07/2023
Though electricity is consumed for site offices during maintenance as mentioned in section B.2 of PSF, however the same is negligible at less than 0.5% of the generation. Hence is considered as negligible	
Documentation provided by Project Owner	
<i>Revised PSF Version 1.2</i>	
Project verifier assessment	Date: 14/07/2023
PO is required to substantiate its claim of “less than 0.5%” with proper documentary evidence. Furthermore, the same is to be reflected in the revised PSF. Hence, CL 02 remains open.	
Project Owner’s response	Date: 30/11/2023
In Section B.6.1. since project emission is zero, the statement relating to calculation of CO2 emission, which has inadvertently crept in, has been removed. Likewise, in table under section B.3. has also been corrected and made consistent with sec. B 6.1.	
Documentation provided by Project Owner	
<i>Revised PSF</i>	
Project verifier assessment	Date: 30/11/2023
The PO has elaborated in section B.3, the emissions from on-site electricity use in the project activity as per paragraph 26 of the methodology which is acceptable to the verification team. Hence the CL 02 is closed.	

Table 3.

CL ID	03	Section no.	D.3.6, D.3.7	Date: 17/02/2023
Description of CL				
In section B.6.1 of the PSF:				
<ul style="list-style-type: none"> i. As per the applied methodology paragraph 42(a), Simple OM emission factor is to be calculated ex-ante using “a 3-year generation-weighted average, based on the most recent data available at the time of submission of the CDM-PDD to the DOE for validation”. However, the data used for the same in the PSF pertains to the years 2014-15, 2015-16 and 2016-17 which is not in accordance with the applied methodology. ii. Similarly, the data used in the PSF for Build Margin (BM) emission factor pertains to 2016-17. However, as per the applied methodology paragraph 72, BM is to be calculated ex-ante using “most recent information available on units already built for sample group m at the time of CDM-PDD submission to the DOE for validation”. Hence, the same is not in accordance with the applied methodology. 				
Project Owner’s response				Date: 01/07/2023
<ul style="list-style-type: none"> I. As per the applied methodology paragraph 42(a), Simple OM emission factor is calculated ex-ante using “a 3-year generation-weighted average, based on the most recent data available at the time of submission of the CDM-PDD to the DOE for validation” for which Version 17.0 of CEA data is considered and changed accordingly. II. Similarly, the data used for Build Margin (BM) emission factor pertains to the latest data i.e., 2020-21. Thus BM is calculated ex-ante using “most recent information available on units already built for sample group m at the time of CDM-PDD submission to the DOE for validation”. Hence, the same is made in accordance with the applied methodology. 				
Documentation provided by Project Owner				
<i>Revised PSF Version 1.2</i>				
Project verifier assessment				Date: 14/07/2023

Section B.6.1 of the revised PSF now includes the most recent available data for the determination of Simple OM emission factor and Build Margin (BM) emission factor. The same is based on “CO₂ Emission Database” Version 17.0, published by CEA. The data used has been found to be appropriate by the verification team and hence CL 03 is closed.

Table 4.

CL ID	04	Section no.	D.3.7	Date: 17/02/2023
Description of CL				
In Section B.7.1 of the PSF:				
<ul style="list-style-type: none"> i. For the parameter EG_{PJ,Y}, as the project activity is already operational, please provide the specific energy meter type installed, their accuracy, serial numbers, calibration status etc. for all the project activities forming the bundle at the feeder as well as substation. ii. The QA/QC procedures should be more specific to the project activity as the same is operational since 2016, PO should touch upon the functioning of main and check meter. iii. Please check and correct the “Frequency of Measuring/reading” column. iv. In the Additional Comments column, the archiving period is to be appropriately mentioned. 				
Project Owner’s response				Date: 01/07/2023
In Section B.7.1 of the PSF:				
<ul style="list-style-type: none"> i. For the parameter EG_{PJ,Y}, as the project activity is already operational, the specific energy meter type installed, their accuracy, serial numbers, calibration status etc. for all the project activities forming the bundle are provided. ii. The PO has updated QA/QC procedures with more specific to the project activity as the same is operational since 2016 and touching upon the functioning of main and check meter. iii. The Frequency of Measuring/reading column is corrected iv. In the Additional Comments column, the archiving period is changed and mentioned appropriately. 				
Documentation provided by Project Owner				
<i>Revised PSF Version 1.2</i>				
Project verifier assessment				Date: 14/07/2023
<ul style="list-style-type: none"> i. For the parameter EG_{PJ,Y}, though the energy meter serial numbers have been mentioned for all the project activities forming the bundle, the same are not classified into Main / Check / Standby. Furthermore, energy meter type as well as calibration details also to be specified as the project activity is already operational. Hence, the finding remains open. ii. The QA/QC procedure to be elaborated upon as the same is operational since 2016. Hence, the finding remains open. iii. The “Frequency of Measuring/reading” column has been modified appropriately for the parameter EG_{PJ,Y}. Hence, the finding is closed. iv. The archiving period is not provided correctly. For QA/QC purposes’ this should be updated to ‘All data is kept for at least two years after the end of crediting period or two years after the last issuance whichever is later’. Hence, the finding remains open. v. No information regarding Feeder present on the PA Adhavan has been provided. vi. From the sample JMRs submitted, it is observed that Net Energy Billed = Export – Import. However, no information regarding the same is provided in the PSF. PO to elaborate on the JMRs as well as calculation methods applicable. 				
Project Owner’s response				Date: 30/11/2023

Project Verification Report

i.	The energy meter type as well as calibration details were indicated in PSF at sec B.7.1
ii.	The QA/QC procedures are elaborated in sec. B7.1.
iii.	Closed
iv.	The archiving period is corrected and updated. The archiving period has been corrected to 2 years beyond the end of crediting period or two years after the last issuance, whichever is later in section B.7.1. This is deemed acceptable and hence the finding is closed.
v.	No feeders were present PA Adhavan. Detailed Single Line Diagram is explained in sec A.3
vi.	Calculation method is described in the section B.7.1
Documentation provided by Project Owner	
Revised PSF and Supporting Documents	
Project verifier assessment	
Date: 30/11/2023	
i.	PO has provided for the parameter $EG_{P,j,y}$, the specific energy meter type installed and classified into Main / Check / Standby., their accuracy, serial numbers, calibration details etc. for all the project activities forming the bundle. This is acceptable to the verification team. Hence the finding is closed.
ii.	The QA/QC procedures have been updated satisfactorily. Hence the finding is closed.
iii.	Closed
iv.	The archiving period has been correctly elaborated by the PO in section B.7.1 of the revised PSF which is acceptable to the verification team. Hence the finding is closed.
v.	The assessment team understands that there are no feeders in the in the PA Adhavan and this has been clearly demonstrated in section A.3 through a single line diagram which is acceptable to the assessment team. Hence, the finding is closed.
vi.	From the sample JMRs submitted, Net Energy Billed = Export – Import. Information regarding the same is provided in section B.7.1 of the revised PSF. This is deemed acceptable and hence the finding is closed.

Table 5.

CL ID	05	Section no.	D.3.7	Date: 17/02/2023
Description of CL				
In section B.7.1 of the PSF, parameters to be monitored for E+/S+ and SDGs:				
i. The parameters, monitored with reference to scoring in Section E and F, are required to be specific and clear on the frequency of monitoring, the legal requirements in place, QA/QC in line with the PSF completing guidelines.				
ii. For the parameter “Solid Waste” please correlate with the information provided in section E.1 and be more specific to the project activity as the same is operational since 2016. Monitoring needs to be specific to each type of solid waste category generated.				
iii. Though the parameter “Community and rural welfare (indigenous people and communities) etc.” is scored in section E.2, the same does not find a mention under section B.7.1				
Section B.7.2				
In Section E.1 some of the parameters which are scored if not managed properly can create harmful impact on environment and hence risk mitigation plan needs to be defined for those for e.g. solid waste from end of life products.				
Project Owner’s response				Date: 01/07/2023

<p>In section B.7.1 of the PSF, parameters to be monitored for E+/S+ and SDGs:</p> <ul style="list-style-type: none"> i. The parameters, monitored with reference to scoring in Section E and F, are made specific and clear on the frequency of monitoring, the legal requirements in place, QA/QC as per the PSF completing guidelines. ii. The PO has already indicated in the PSF in section E.1 that the monitoring is specific to solid waste quantity per year. To be more specific “Quantity (in kgs/tons/numbers) of waste being reused/refurbished/recycled per year” iii. The parameter “Community and rural welfare (indigenous people and communities) etc.” is scored in section E.2, and the same is mentioned under section B.7.1 <p>In Section E.1 some of the parameters which are scored if not managed properly can create harmful impact on environment and hence risk mitigation plan is defined for those in section B.7.2</p>	
<p>Documentation provided by Project Owner</p>	
<p><i>Revised PSF Version 1.2</i></p>	
<p>Project verifier assessment</p>	<p>Date: 14/07/2023</p>
<ul style="list-style-type: none"> i. The parameters required to be monitored with reference E+/S+/ SDGs are required to be specific and clear on the frequency of monitoring, the legal requirements in place, QA/QC in line with the PSF completing guidelines. Furthermore, where required the PO to co-relate the parameters such as “EG_{PJ,Y}” and “Emission Reductions”. Hence, the finding remains open. ii. Monitoring needs to be specific to each parameter mentioned in section E.1 and E.2 for example the different types of waste categories, types of employment – short term / Long term. <p style="text-align: center;">Section B.7.1 / B.7.2 as well as Section E.1 of the revised PSF lack information on Solid Waste from hazardous waste such as waste oil as well as End of Life Products/ equipment. PO to justify the same. Hence, the finding remains open.</p> <ul style="list-style-type: none"> iii. The parameter “Community and rural welfare (indigenous people and communities) etc.” is now mentioned under section B.7.1. However, the PO is required to elaborate upon the same. Hence, the finding remains open. <p>Section B.7.2 ‘Solid waste from E-waste’ is identified under section B.7.2. However, the table is not appropriately completely w.r.t. the Risk mitigation plan as well as description. Hence, the finding remains open.</p>	
<p>Project Owner’s response</p>	<p>Date: 30/11/2023</p>
<p>Revised PSF and Supporting documents</p>	
<p>Documentation provided by Project Owner</p>	
<ul style="list-style-type: none"> i. The parameters required to be monitored with reference E+/S+/ SDGs are made specific and clear incorporating the frequency of monitoring, the legal requirements in place and QA/QC in line with the PSF completing guidelines. PO also correlated the parameters. ii. The monitoring is made specific to all parameters mentioned in section E.1 and E.2. The project activity does not generate any hazardous waste. However, project activity generates solid waste from E waste (Spares of SCADA system, inverters, etc.), which is recycled/reused/refurbished/disposed off and the same is indicated at sec B.7.2 iii. The parameter “Community and rural welfare” is elaborated under section B.7.1 and same is not claimed. <p>Section B.7.2 The table for Solid waste from E-waste has been completed along with risk mitigation plan in the revised PSF.</p>	
<p>Project verifier assessment</p>	<p>Date: 30/11/2023</p>
<p>The revisions made in the sections B.7.1 and B.7.2 of the PSF, by the PO are deemed acceptable to the assessment team and therefore, CL 05 is closed.</p>	

CL ID	06	Section no.	D.3.5	Date:	17/02/2023
Description of CL					
With respect to investment analysis, the following findings are raised:					
<ul style="list-style-type: none"> i. Under step 1, sub-step 1b “Consistency with mandatory laws and regulations” PO to justify that the alternative(s) enlisted shall be in compliance with all mandatory applicable legal and regulatory requirements along with the list of relevant national laws and regulations applicable. ii. PO needs to confirm (with credible evidence) on the compliance of paragraph 10 of CDM Tool 27, version 11 which states “<i>Input values used in all investment analysis shall be valid and applicable at the time of the investment decision taken by the project participant.</i>” iii. In accordance with paragraph 34 of the PSF completion guidelines, PO needs to specify the project milestones including the investment decision date under step 2 of investment analysis, in section B.5 of the PSF, and further needs to check and confirm that the listed input values have been consistently applied in all calculations. iv. PO to provide Standard performance warranty referred for deration/degradation factor applied. v. PO to provide a breakup of the value considered under Gross Depreciation. vi. Under Sensitivity analysis, the breaching values for each of the factors need to be mentioned along with justification as to why is it not possible. Furthermore, As the project is already generating, the sensitivity analysis to be based on actual values. 					
Project Owner’s response					Date: 01/07/2023
With respect to investment analysis,					
<ul style="list-style-type: none"> i. Under step 1, sub-step 1b “Consistency with mandatory laws and regulations” PO has listed the relevant laws and regulations to justify that the alternative(s) enlisted shall be in compliance with all mandatory applicable legal and regulatory requirements. ii. PO confirms that the project activity complies with paragraph 10 of CDM tool 27, version 11 and all the input values used in the investment analysis are valid and applicable at the time of taking investment decision by the project participant. iii. The following milestones are considered for determining the investment decision date under step-2 of investment analysis in section B.5 of the PSF and listed input values have been consistently applied in all calculations. 					
Adhavan:					
Date of execution of PPA		28-05-2015			
PO for Inverters		12-11-2015			
COD		31-03-2016			
RT Renewables:					
Govt. Order for PPA		12-09-2014			
PO for BOM		20-04-2015			
COD		28-03-2016			
Phoebus:					
Date of execution of PPA		12-09-2014			
PO for Inverters		05-05-2015			
COD		08-02-2016			
Venus:					

Date of execution of PPA	18-12-2014
COD	28-03-2017

Diamond:

Date of execution of PPA	18-12-2014
COD	28-03-2017

The date of EPC contract is considered as decision date for investment analysis

- iv. The degradation normally takes place in solar power generation plants due to degradation of modules. That is reflected in module data sheet provided by manufacturers.
- v. The PO has considered the entire project cost (less land) for the purpose of calculation depreciation as per the prevailing laws. As provided by Sec. 32 of the Income Tax Act, the entire plant and machinery excluding land has been considered as a 'block of assets' and the depreciation has been provided accordingly. Appendix IA prescribes only one rate – 7.69% – for all assets. Moreover, this is more conservative from the demonstration of additionality point of view
- vi. Under Sensitivity analysis, the breaching values for each of the factors is mentioned along with justification as to why is it not possible.

Documentation provided by Project Owner

- 1. *Degradation factor proof*
- 2. *Loan sanction letter (same provided in CL no.1)*

Project verifier assessment

Date: 14/07/2023

- i. Step 1, sub-step 1b “Consistency with mandatory laws and regulations” has not been revised by the PO to justify that the alternative(s) enlisted shall be in compliance with all mandatory applicable legal and regulatory requirements along with the list of relevant national laws and regulations applicable. **The finding remains open.**
- ii. Through document review and due diligence of project activity verification team understand that, this PA Venus and Diamond were awarded to PO by State Government through competitive bidding process. In this respect PO is requested that the DPR prepared during bidding process needs to provide to verification team and justify the financial additionality based DPR values. Also, the highest tariff values on which bidding initiated needs to be used for investment analysis purpose.

Furthermore, PO needs to ensure that all the input values for Assumptions made in the PSF/ IRR sheet are available, valid, and applicable at the time of the investment decision date. For example: In PA Adhavan, the PPA Date (also the investment decision date) is 28/05/2015 while the Loan Sanction Letter date is 04/11/2015. **The finding remains open.**

- iii. PO states that “The date of EPC contract is considered as decision date for investment analysis”. However, PPA execution date is considered as “Investment decision date” under section B.5. PO is requested to cross check the dates stated as “Investment Decision Date” in the revised PSF/ table provided and make corrections accordingly.

Furthermore, the table to be elaborated upon to include important milestones such as loan

sanction etc. The said table is to be incorporated in the revised PSF as well. Also, the documentary evidence mentioned therein, apart from PPA, is required to be provided. **The finding remains open.**

- iv. The data sheets submitted provide a 0.7% degradation per year from 2nd year onwards. Also, Sun Edison PV Modules used mention a degradation of up to 2.5% for the 1st year for some and up to 3.5% for the 1st year for others. In view of the same, PO to substantiate the claim for Annual degradation of 0.83% and 0.67% applied. **The finding remains open.**
- v. PO to also provide evidence for Land Cost etc. **The finding remains open.**
- vi. Under Sensitivity analysis, the breaching values for each of the factors need to be mentioned along with justification as to why is it not possible. Furthermore, As the project is already operational, PO is requested to justify that the project is still additional using all actual input values of PA.

Also, in accordance with para 27 of Tool 27 Ver. 11 “Variables, including the initial investment cost, that constitute more than 20% of either total project costs or total project revenues should be subjected to reasonable variation” PO to justify that parameters only related to above criteria are selected for sensitivity analysis in section B.5. **The finding remains open.**

- vii. Table in section B.5 of PSF showing list of financial parameters used for investment analysis needs to be presented with source / web-links for each parameter included in the IRR spread sheet.
- viii. PO is required to substantiate PLF in accordance with paragraph 3 of “Guidelines for the reporting and verification of Plant load factors” EB 48 Annex 11.
- ix. For Adhavan: Salvage Value is sourced from Loan Sanction Letter. However, the same could not be found.

For RT Renewables: It is observed that the PPA execution date is 12/09/2014, COD is 28/03/2016 and the Loan Sanction Dt. Is 07/06/2016. PO to clarify the same.

Furthermore, Assumption for “Interest on Working Capital Debt” is not according to CERC RE tariff order dated 15/05/2014

For Phoebus: Web-link provided for supporting document is incorrect. Also, please check the supporting document mentioned for “Life of Plant”

- x. As per para 16 of Tool 27 please explain that the investment analysis is carried out in nominal terms and the available IRR benchmarks are in real terms, hence PO has converted the real term values of benchmarks to nominal values by adding the inflation rate. The same is not clear in PSF section B.5.

Hence, CL 06 remains open.

Project Owner’s response	Date: 30/11/2023
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- i. Step 1, sub-step 1b “Consistency with mandatory laws and regulations” has been revised by the PO to justify that the alternative(s) enlisted shall be in compliance with all mandatory applicable legal and regulatory requirements along with the list of relevant national laws and regulations applicable.
- ii. Letter of award by the state DISCOM is considered as investment decision date by the PO for Venus and Diamond. At the time of investment decision PO relied on CERC tariff order available at the time of investment decision and the parameters available in the tariff order are considered for investment analysis.
- iii. Please note that based on implementation in respect of Adhavan, Phoebus, and RT renewables and LOA from Karnataka Discom for Diamond and Venus, the investment decision date is determined.
We have made necessary corrections in respect of investment decision dates in respect of PSF.

The table provided in the response is provided in the revised PSF in a chronological manner.

iv. We have considered the degradation values of 2.5% for the first year, 0.83% in the second year to 10th year and 0.67% from 11th year onwards. This data was available at the time of decision making. Though the data sheets provided for the projects have different degradation value, the same could not be applied as the same was not available at the time of decision making. The calculation for considering annual degradation of 0.83% and 0.67% is as per the data sheets provided earlier, the calculations is as per the graph in the data sheet and is as below.

Calculation –

Annual degradation from 2nd year till 10th year: $(97.5-90)/9= 0.83$

Annual degradation from 11th year till 25th year: $(90-80)/15=0.67$

Data sheet considered is attached.

You may also kindly note that while considering actual values, we have gone by actual generation in the initial years without application of degradation values and only from 11th year onwards we have considered 0.67% as degradation value.

We also would like to bring for your kind notice that the data sheets available at the time of decision making are not indicating 3.5% as degradation value in the first year.

- v. Investment decision has been taken based on the input parameters contained in CERC RE order. The said CERC order does not provided the cost of land separately
- vi. We have revised the PSF specifying under sensitivity analysis the breaching values for each of the factors along with justification as to why is it not possible to breach the benchmark. PO has worked out equity IRR considering actual parameters with relevant evidence to justify that the project is still additional. Evidence for actual values is also provided. PO has justified in accordance with para 27 of Tool 27 Ver. 12 sensitivity analysis of the parameters specified as per the criteria specified under tool 27 in section B.5
- vii. Table in section B.5 of PSF showing list of financial parameters used for investment analysis are presented with source for each parameter All the parameters have been sourced from CERC RE tariff order, except depreciation and tax rates which have been sourced from Income Tax Rules and Act
- viii. As all assumptions for Additionality are taken from CERC, PO does not want to take into account the “Guidelines for the reporting and verification of Plant load factors” EB 48 Annex 11.
- ix. We have sourced the salvage from CERC tariff order. Necessary corrections are made.

These projects were funded till commissioning through promoters contribution without loan assistance. Subsequently, post COD they were funded.

“Interest on Working Capital Debt” is according to CERC RE tariff order dated 15/05/2014

- x. As per para 16 of Tool 27, PO has converted the real term values of benchmarks to nominal values by adding the inflation rate. The same is clarified under “estimation of Benchmark” in PSF section B.5.

Documentation provided by Project Owner

Revised PSF, IRR Sheet and Supporting documents

Project verifier assessment

Date: 30/11/2023

- i. Step 1, sub-step 1b “Consistency with mandatory laws and regulations” has been revised by the PO to justify that the alternative(s) enlisted shall be in compliance with all mandatory applicable legal and regulatory requirements existing within the sector. The finding is closed.
- ii. The letter of award has been considered as the investment decision date for Venus and

	<p>Diamond PAs and the input values are taken from CERC tariff orders for respective PAs, which was available at the time of investment decision. This is deemed acceptable to the verification team. Hence the finding is closed.</p>
iii.	<p>PO has revised the PSF to indicate the basis of investment decision dates for all the PAs which is deemed acceptable to the verification team.</p> <p>Furthermore, the table in section B.5 has been elaborated upon to include important milestones such as loan sanction etc. Also, the documentary evidence apart from PPA has been provided. Therefore, this finding is closed.</p>
iv.	<p>PO has described the calculation in section B.6.4 of the revised PSF along with supporting documents. Hence, the finding is closed.</p>
v.	<p>The verification team understands that, as provided by Sec. 32 of the Income Tax Act, the entire plant and machinery excluding land has been considered as a “block of assets” and the depreciation has been provided accordingly. Equally, investment decision has been taken by the PO based on the input parameters contained in CERC RE order and that the CERC order does not provide the cost of land separately. PO does not consider the Land cost in IRR which is acceptable by the verification team. Hence, the finding is closed.</p>
vi.	<p>PO has updated the PSF to show the breaching values for every factor, along with a rationale for why it is not possible to breach the values. Evidence for actual values is also provided. PO has justified in accordance with para 27 of Tool 27 Ver. 12 sensitivity analysis of the parameters, including the initial investment cost, that constitute more than 20% of either total project costs or total project revenues. PO has worked out equity IRR considering actual parameters with relevant evidence to justify that the project is still additional. This is deemed acceptable to the assessment team and therefore, this finding is closed.</p>
vii.	<p>Table in section B.5 of the revised PSF showing list of financial parameters used for investment analysis has been elaborated by PO with source / web-links for each parameter included in the IRR spread sheet. Hence the finding is closed.</p>
viii.	<p>The values from the CERC tariff order are used in the IRR calculation were available at the time of investment decision which is deemed acceptable to the verification team.</p>
ix.	<p>Necessary corrections in sections B.5 and C.1 of the revised PSF as well as appropriate supporting documents have been provided by the PO. Hence, the finding is closed.</p>
x.	<p>PO has revised section B.5 of the PSF as per para 16 of Tool 27 which is deemed acceptable to the assessment team and hence, this finding is closed.</p>

CL ID	07	Section no.	D.10, D.11	Date:	17/02/2023
Description of CL					
<p>In section E: Environmental and Social Safeguards of the PSF:</p> <ul style="list-style-type: none"> i. Please complete the table uniformly with appropriate use of “Not Applicable”, “No Action Required” etc. and accordingly fix appropriate KPI for each of the identified harmless and harmful Environmental and Social Safeguards along with proper reference for relevant applicable legislation. ii. Monitoring approach and parameter as well as the basis of the conclusion ‘as to why the parameter will be scored’ to be elaborated upon using specific targets and performance indicators such as targeted CO₂ emission reductions, minimum number of people targeted for imparting training etc. The chosen parameters should be quantified for the baseline scenario and the project scenario. iii. With reference to solid waste from Plastic, Hazardous waste, E-waste, End of Life Products as the project activity is operational since 2016, please be very specific as to what is being classified here (for e.g. Solar PV modules, inverter, cables, electronic cards etc.) and accordingly frame the detailed monitoring approach with reference disposal in line with applicable regulations viz. SPCB authorized vendor as well as quantity of waste generated/ disposed. 					

- iv. E-waste is governed by E-waste (Management and Handling) Rules and has a compliance obligation. PO to justify the basis for scoring the aforementioned parameter in the PSF.
- v. PO has indicated the use of Ground water for cleaning of PV Modules. However, the PSF does not mention about the waste that is being generated, its treatment and disposal and its environmental impacts. The section on the “Environment-water” therefore to be completed appropriately.
- vi. Scored parameters such as “Occupational health hazards”/ “Improving/ deteriorating working conditions” / etc.” make generic statements such as “reduces the chance to happen accidents”, “the people from local communities would have to work somewhere with fatiguing work conditions” etc. – please be project activity specific with respect to description of impact, the monitoring approach and parameters as well as conclusion leading to the parameter being scored.
- vii. The following parameters:
 1. “Replacing fossil fuels with renewable sources of energy” and “CO2 emissions”;
 2. “specialized training / education to local personnel” and “Project related knowledge dissemination effective or not”;
 3. “Occupational health hazards” and “Reducing / increasing accidents /Incident s/fatality” are scored +1 based on the same theory / justification. PO to justify the scoring the said parameters.
- viii. PO is requested to justify as to how the trainings conducted for parameters “specialized trainings/ education to local personnel” and “Project related knowledge dissemination effective or not” are different from those mandated under legal/regulatory requirements for the sector.
- ix. Child Labour prohibition and Minimum Wage are governed by their respective acts in place in India and have a compliance obligation. PO to justify the basis for scoring the aforementioned parameters in the PSF.
- x. PO also needs to demonstrate that under “Social safeguards” impacts created are additional to compliance obligation under CSR commitments.
- xi. In accordance with paragraph 22(b) of Project Sustainability Standard version 3.0, PO to ensure that all linkages between chosen SDGs and E+/S+ parameters are reflected for e.g. Goal 1.1 and parameter “poverty elevation SW03”.

Project Owner’s response	Date: 01/07/2023
<ul style="list-style-type: none"> i. The appropriate use of “Not Applicable”, “No Action Required” etc. and accordingly appropriate KPI for each of the identified harmless and harmful Environmental and Social Safeguards along with proper reference for relevant applicable legislation has been made clear. ii. The fact that projects are already established and in operation, the parameters scored like targeted CO2 emission reductions, minimum number of people employed targeted for imparting training are quantified for the project scenario. iii. With reference to solid waste, only solid waste from E-waste is considered in the project scenario. The E-waste (for e.g. Solar PV modules, inverter, cables, electronic cards etc.) is classified here as Solid waste and the detailed monitoring approach along with KPI is clearly defined. iv. E-waste is governed by E-waste (Management and Handling) Rules and PO agrees with it and scores this parameter as per the latest GCC Environmental standard that the quantity of waste is monitored and is in line with the regulations. v. The water required for cleaning of modules is negligible and gets evaporated. Hence no waste is generated and we have not considered any score in the PSF vi. PO feels that scored parameters such as “Occupational health hazards”/ “Improving/ deteriorating working conditions” / etc.” are not project activity specific with respect to description of impact, the monitoring approach is not appropriate and hence those are not considered for scoring. vii. Parameters scored +1 with same theory with respect to others parameters that are scored are been ignored. Only one parameter for a theory is considered. viii. PO has considered extra trainings conducted for parameters “specialized trainings/ education to local personnel” and “Project related knowledge dissemination effective or not” that are different from 	

<p>those mandated under legal/regulatory requirements for the sector.</p> <ul style="list-style-type: none"> ix. Child Labour prohibition and Minimum Wage are governed by their respective acts in place in India and have a compliance obligation. So, PO will not take score for the aforementioned parameters in the PSF. x. PO confirms that welfare activities done are additional to CSR commitments. xi. In accordance with paragraph 22(b) of Project Sustainability Standard version 3.0, PO ensures that all linkages between chosen SDGs and E+/S+ parameters are reflected in the PSF
<p>Documentation provided by Project Owner</p>
<p><i>Revised PSF Version 1.2</i></p>
<p>Project verifier assessment</p>
<p>Date: 14/07/2023</p>
<ul style="list-style-type: none"> i. The table in section E has been uniformly completed with appropriate use of “Not Applicable”, “No Action Required” etc. However, KPI / Performance indicator for monitoring the impact for each of the identified Environmental and Social Safeguards along with proper reference for relevant applicable legislation such as Air (Prevention & Control of Pollution) Act 1981 etc. has not been done. The finding remains open. ii. The table in section E.1 as well as E.2 has not been appropriately completed. The monitoring parameter is to be aligned with monitoring approach, explanation for justification as well as direct performance indicator to measure the impact. The finding remains open. iii. It is acceptable that No Plastic waste is generated at the Project Activity site. However, PO to justify the absence of Hazardous waste such as transformer oil as well as Waste from End-of-Life Products i.e. damaged or defunct Solar PV modules. <p style="margin-left: 40px;">Furthermore, for solid waste from E-waste PO to elaborate in the PSF as to what is being classified as e-waste is to be specified in the PSF and accordingly frame the detailed monitoring approach with reference disposal in line with all applicable regulations.</p> <p style="margin-left: 40px;">From 2023 onwards Management of solar PV modules shall be in accordance with the e-waste management rules, 2022 notified on 2/11/2022. PO to address future compliance with the same.</p> <p style="margin-left: 40px;">The finding remains open.</p> iv. The justification for scoring of the Parameter “Solid waste Pollution from E-wastes” in accordance with E-waste (Management and Handling) Rules is acceptable to the verification team. However, PO to address the finding in point (iii) above. v. Justification provided by the PO for no wastewater being generated in the process of cleaning PV Modules is acceptable to the verification team. However, PO to provide approval for use of Ground water for the said purpose in accordance with Permission for abstraction of Ground water under Environmental (Protection) Act 1986. The finding remains open. vi. Description of impact, the monitoring approach and parameters as well as conclusion leading to the parameter being scored / not scored to be project activity specific without the use of generic / ambiguous statements. The finding remains open. vii. The justification provided by the PO w.r.t. only one parameter being scored for each theory is acceptable to the verification team. The finding is closed. viii. PO is requested to elaborate on the “extra trainings” mentioned in the justification provided with the provision of examples of training provided. Furthermore, PO to also clarify if these are in addition to sector specific requirements mandated by CEA, SERC regulations etc. <p style="margin-left: 40px;">Also, the parameter “Project related knowledge dissemination effective or not” is stated to be “Not Applicable” in the revised PSF. The finding remains open.</p> ix. The PO has not raised claims against the parameters “Exploitation of Child labour” and “Minimum wage protection” in section E.2 of the revised PSF. The same is acceptable to the verification team. However, PO is required to provide an appropriate conclusion for the same instead of terming it as

“Not applicable”. **The finding remains open.**

- x. CSR policy, dt. 18/01/2022 submitted by the PO mentions “Education, Healthcare, Rural Development, Livelihood Enhancement and Environment” as the focus areas. Photographs of Health Camps conducted and Fund allocation for the same are provided. However, these clearly state that the Free Health Camps conducted are a part of the CSR Initiative E.g. Letter dated 22/05/2018 for Adhavan. PO to justify their claim in view of the same.

PO to provide evidence, apart from photographs, to substantiate their claim for the parameter “Community and rural welfare (indigenous people and communities)”. The evidence to be correlated to monitoring parameter which is “Allocation of funds” for welfare activities and the said parameter is to be elaborated upon in section E.2. **The finding remains open.**

- xi. All linkages between chosen SDGs and E+/S+ parameters are not reflected in the revised PSF for e.g. the parameter for Goal 3 does not find a mention in Section E.2. **The finding remains open.**
- xii. The parameter “Sources of income generation increased / reduced”, has a positive impact in the conclusion but has not been scored. Providing jobs for people, infrastructure development is not sufficient to score/ conclude. Objective procedures shall be included to track changes in income/income sources status pre- and post-project.

Similarly, the parameter “Poverty alleviation (more people above poverty level)”, “Educational services improved or not” has a Positive impact in conclusion but has not been scored.

PO to address all such claims / conclusions and complete the table appropriately.

- xiii. For parameter “Reducing accidents”, “Data Source” should include training attendance sheet/training records in addition to monitoring the “Major Accidents/incidents per year”. Also examples of training to be included in parameter for transparency purpose as project is already operational.

Furthermore, procedures for monitoring and reporting of accidents and their resolution shall be included in the PSF.

Project Owner’s response	Date: 30/11/2023
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- i. Environmental and Social Safeguards along with proper reference for relevant applicable legislation is provided in the revised PSF. ‘Harmful’, ‘Harmless’, ‘Not applicable’ and ‘No action required’ response have been suggested by the format itself. However, monitoring parameter, if scored, has been duly indicated
- ii. Table E.1 and E.2 have been revised. Wherever credit is claimed, monitoring parameter has been aligned with monitoring approach, direct performance indicator for measurement has been given along with explanation.
- iii. The revised PSF elaborates what is classified as e-waste and hazardous waste, monitoring approach and disposal along with the governing regulations.
 There is a probability of project generating E-wastes (spares of SCADA system and inverters). It will be collected and disposed properly through authorized vendors and comply with the rules of E Waste disposal guidelines. Solid waste (E waste) quantity (in kgs/tons/numbers) reused/recycled/refurbished or disposed per year Monitored through records maintained or form 2 of waste management.
 The PO will comply with from 2023 onwards Management of solar PV modules as per e-waste

- management rules, 2022 notified on 2/11/2022.
- iv. The finding in point iii above is addressed in the response made for iii above.
 - v. The applications made for usage of ground water made with relevant authority is attached
 - vi. The impact, monitoring approach and parameters as well as conclusion leading to the parameter being scored / not scored have been incorporated for all parameters in sec. E.1 & E.2
 - vii. Closed
 - viii. Examples of training to be provided have been elaborated. As could be seen, these are in addition to specific requirements mandated by CEA, SERC regulations etc
 - ix. Conclusion has been given not only exploitation of child labour and minimum wage protection but also for all parameters irrespective of whether it is scored or not.
 - x. PO now doesn't claim for the welfare activities and claims for the health services for which monitoring parameter can be justified and same is elaborated in the PSF.
 - xi. Linkages has been established between all SDGs and E+/S+ parameters in sec B.7.1
- Though the project contributes positively to income generation and infrastructure development, it is difficult to monitor and measure these objectively. Parameters are no scored, where the monitoring and performance measurement does not lend itself to objective measurement. However, job creation has been scored as it lends itself to monitoring and measurement. In the revised PSF, conclusion is provided for each parameter irrespective whether it is scored or not and the table has been completed appropriately.
- xii. For parameter "Reducing accidents", information on trainings is mentioned. The monitoring KPI is clearly mentioned and monitored through records.

Documentation provided by Project Owner

Project verifier assessment

Date: 30/11/2023

- i. It has been observed by the verification team that, the tables in section E have been uniformly completed. Hence, the finding is closed.
- ii. PO has aligned the monitoring parameter with monitoring approach, explanation for justification as well as direct performance indicator which is deemed acceptable by the verification team. Hence the finding is closed.
- iii. PO has elaborated in the revised PSF what is being classified as e-waste and accordingly framed the detailed monitoring approach with reference disposal in line with all applicable regulations. PO explained that since no quantity of hazardous waste is generated as of now, there are no contracts for E waste or hazardous waste. For future waste generation, PO stated the procedure followed by them for E waste and hazardous waste in the PSF. This is deemed reasonable and acceptable. Hence, the finding is closed.
- iv. The finding in point (iii) has been addressed by the PO. Hence, the finding is closed.
- v. PO has provided supporting document for ground water usage which is acceptable to the assessment team. Hence, the finding is closed.
- vi. Description of impact and the monitoring approach for the parameters has been described. As per Environment and Social Safeguards Standard (v 3.0) scoring the parameters have been revised in section E of the revised PSF. Hence, the finding
- vii. Closed
- viii. In section E of the revised PSF, the PO has elaborated on the extra trainings, and these are demonstrated to be additional to specific requirements mandated by CEA, SERC regulations etc. Hence, the finding is closed.
- ix. PO has addressed appropriate conclusions for the parameters "Exploitation of Child labour" and "Minimum wage protection" in the revised PSF. Hence the finding is closed.
- x. PO now doesn't claim for the community or rural welfare activities and claims for the health services for which monitoring parameter has been elaborated. This is acceptable to the verification team. Hence the finding is closed.
- xi. linkages between chosen SDGs and E+/S+ parameters are now reflected in the revised. Hence,

	the finding is closed.
xii.	PO has appropriately justified the scoring of the parameters and completed the tables in sections E.1 and E.2 of the revised PSF which is acceptable to the verification team. Hence the finding is closed.
xiii.	PO has elaborated in section E for the parameter “reducing accidents”, the training method for transparency purpose as project is already operational which is deemed acceptable by the verification team. Hence, the finding is closed.

CL ID	08	Section no.	D.12	Date: 17/02/2023
Description of CL				
In section F: Sustainable Development Goals of the PSF:				
<ul style="list-style-type: none"> i. For SDG Goals that are scored, indicators, project activity specific description, specific targets, justification for positive effect as well as specific monitoring approach and parameters need to be mentioned. As the project activity is operational since 2016, the indicators and monitoring needs to be substantiated with actual credible evidence. ii. Goal 1.1 states “Eradicate extreme poverty for all locally employed people”. Please justify the same. How does the PO ensure locally employed are extremely poor, is there a baseline being referred to, does the PO have specific hiring guidelines etc. iii. PO is required to justify the suitability of the following indicators scored considering Nature of Project activity and Baseline indicator: <ul style="list-style-type: none"> a. Indicator 3.8.1 “Coverage of essential health services” <p style="margin-left: 40px;">Also, Goal 3.8 states “ensure financial risk protection”, how does the PO define this and what measures are taken to ensure fulfilment. Financial Risk protection is covered under UN SDG indicator 3.8.2.</p> <ul style="list-style-type: none"> b. Indicator 4.4.1 “Proportion of youth and adults with information and communications technology (ICT) skills, by type of skill” c. Indicator 8.8.1 “Fatal and non-fatal occupational injuries per 100,000 workers, by sex and migrant status” iv. PO needs to justify the suitability of Goal 9 target and performance indicator chosen for the project activity considering: <ul style="list-style-type: none"> a. Nature of project activity b. Baseline indicator for target c. Impact of parameter considered for this indicator is already covered under goal 7 & 13 				
Project Owner’s response				Date: 01/07/2023
In section F:				
<ul style="list-style-type: none"> i. For SDG Goals that are scored, indicators, project activity specific description, specific targets, justification for positive effect as well as specific monitoring approach and parameters are substantiated with actual credible evidence. ii. PO recognises that the monitoring approach to justify baseline is difficult and hence doesn’t claim goal 1.1 iii. Indicator 3.8.1 “Coverage of essential health services” is applicable to this project activity as the PO provides the same to their employees within the project activity. Relevant record are being enclosed PO considers indicator 3.8.1, while indicator 3.8.2 “ensure financial risk protection” is not considered <p>For SDG 4, the Indicator 4.4.1 “Proportion of youth and adults with information and communications</p>				

<p>technology (ICT) skills, by type of skill” is modified to “Number of persons trained” who are locals and given skill development.</p> <p>Indicator 8.8.1 “Fatal and non-fatal occupational injuries per 100,000 workers, by sex and migrant status” is applicable as the project is a solar generation plant there are chances of major injuries/accidents to occur and the same are recorded and maintained in the EHS formats as Major accidents.</p>	
<p>iv. PO finds that Goal 7 is claimed for same monitoring parameter as of goal 9, so goal 7 is claimed dropping 9.</p>	
<p>Documentation provided by Project Owner</p> <p><i>Revised PSF Version 1.2</i></p>	
<p>Project verifier assessment</p>	<p>Date: 14/07/2023</p>
<p>i. For SDG Goals that are scored, Project Level indicators, Targets / Actions, Contribution to UN SDG as well as Monitoring are not adequately elaborated upon. Refer paragraph 22 of Project-Sustainability-Standard, version 3.0. Kindly review this SDG in totality and update accordingly. The finding remains open.</p> <p>ii. The PO has withdrawn its claim against UN SGD Goal 1. The same is acceptable to the verification team and therefore the finding is closed.</p> <p>iii. For the SDG Goals 3, 4 as well as 8. Project level Actions & Indicators are not directly linked with UN SDG targets and indicators. PO is required to justify the suitability of the same. Confirming that the Project Owner can claim a lower SDG label, in case the project is not able to demonstrate impact on specific SDG goals or data or the information provided is inadequate or incomplete. The finding remains open.</p> <p>iv. The PO has withdrawn its claim against UN SGD Goal 9. The same is acceptable to the verification team.</p>	
<p>Project Owner’s response</p>	<p>Date: 30/11/2023</p>
<p>i. Sec. F. SDG goals has been corrected in respect of SDG goals that are scored. The revision incorporates project level indicators, targets/actions, contribution to UN SDG as well as monitoring.</p> <p>ii. Closed</p> <p>iii. In the revised PSF, the project level actions and indicators have been directly linked to UN SDG targets and indicators</p> <p>iv. PO now claims SDG 9 and its monitoring and impacts are elaborated in the PSF</p>	
<p>Documentation provided by Project Owner</p> <p><i>Revised PSF and Supporting Documents</i></p>	
<p>Project verifier assessment</p>	<p>Date: 30/11/2023</p>
<p>i. PO has performed appropriate modifications in Sec. F. SDG goals providing corrections in respect of SDG goals that are scored. The revision incorporates project level indicators, targets/actions, contribution to UN SDG as well as monitoring. Hence, the finding is closed.</p> <p>ii. Closed</p> <p>iii. In section F of the revised PSF, the PO has provided modifications to the Project level Actions & Indicators which are now directly linked with UN SDG targets and indicators. Hence, the finding is closed.</p> <p>iv. PO has selected SDG indicator 9.2.2 “Manufacturing employment as a proportion of total employment” and the project contribution for the same is stated as providing employment opportunities to the eligible candidates for operations. This is acceptable to the assessment team and hence, the finding is closed.</p>	

Table 6.

CL ID	09	Section no.	D.2	Date: 17/02/2023
Description of CL				

Project Verification Report

In Appendix 8 of the PSF, PO is requested to elaborate upon the analysis with regards to homogeneity of the Bundle in accordance with GCC Clarification No. 1.	
Project Owner's response	Date: 01/07/2023
In Appendix 8 of the PSF, PO has elaborated upon the analysis with regards to homogeneity of the Bundle in accordance with GCC Clarification No. 1	
Documentation provided by Project Owner	
<i>Revised PSF Version 1.2</i>	
Project verifier assessment	Date: 14/07/2023
The PO has provided a detailed Level 1 analysis of homogeneity of the Bundle in the revised PSF. However, Level 2 Analysis also needs to be elaborated upon in accordance with paragraph 10 of GCC Clarification No. 1, version 1.3. CL 09 therefore remains open.	
Project Owner's response	Date: 30/11/2023
Level 2 analysis is being elaborated as per the clarification 1 in the PSF	
Documentation provided by Project Owner	
<i>Revised PSF</i>	
Project verifier assessment	Date: 30/11/2023
In accordance with paragraph 10 of GCC Clarification No. 1 version 1.3, PO has elaborated level 2 analysis in Appendix 8 of the revised PSF. Hence, CL 09 is closed.	

CL ID	11	Section no.	D.4	Date: 17/02/2023
Description of CAR				
In section C.3, the start date of the crediting period is mentioned as 07/02/2017 while the start date of operations of the project activity is 08/02/2016. PO to justify the gap between the same.				
Project Owner's response				Date: 01/07/2023
In section C.3, the start date of the crediting period is mentioned as 07/02/2017 while the start date of operations of the project activity is 08/02/2016. The gap between the same is as per GCC standard that start date of crediting period can be before one year from start date.				
Documentation provided by Project Owner				
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Project verifier assessment				Date: 14/07/2023
The state date of the crediting period is in accordance with §40(b) of the Project Standard version 03.1. The same is acceptable to the verification team and hence CL 11 is closed.				

Table 2. CARs from this project verification

CAR ID	01	Section no.	D.2	Date: 17/02/2023
Description of CAR				
The following was not captured in section A of the PSF as per the 'Instructions for completing the PSF':				
<ul style="list-style-type: none"> i. Summary of Project boundary and technologies/measures employed in section A.1. ii. Details and Arrangement of Metering/ monitoring equipment in section A.3 including arrangement of feeder for evacuation of electricity to the substation for M/s SEI Adhavan Power Private Limited. iii. Short summary of facilities, systems and equipment in the baseline scenario in section A.3. iv. Description as to how the electricity is generated and exported to grid along with details of voltage levels at switchyard and grid station in section A.3. 				
Project Owner's response				Date: 01/07/2023

The following information has been updated in section A of the PSF	
<ul style="list-style-type: none"> i. Summary of Project boundary, technologies/measures employed in section A.1. ii. Details and Arrangement of Metering/ monitoring equipment for evacuation of electricity to the substation in section A.3. iii. List of facilities, systems and equipment to be elaborated upon under section A.3 e.g. number of modules involved etc. iv. Description as to how the electricity is generated and exported to grid along with details of voltage levels at switchyard and grid station in section A.3. 	
Documentation provided by Project Owner	
<i>Revised PSF Version 1.2</i>	
Project verifier assessment	Date: 14/07/2023
<ul style="list-style-type: none"> i. Summary of Project boundary is not adequately elaborated upon. The same is to be in accordance with the methodology applied. The finding remains open. ii. Details and Arrangement of Metering/ monitoring equipment for evacuation of electricity to the substation have not been provided in section A.3. iii. List of facilities, systems and equipment has been elaborated upon under section A.3 of the revised PSF. However, details on the number of modules installed is still missing. The finding remains open. iv. A general statement w.r.t details of voltage levels at switchyard and grid station has been provided in Section A.3. PO to confirm if the same is applicable to all the five PAs forming the bundle. The finding remains open. v. From the PPAs submitted, it is understood that the PA Venus as well as Diamond was allotted through a State Government Competitive Bidding Process. No such information has been provided in the PSF. Furthermore, no details of the parties involved in the PPA as well as change in legal ownership of the PA has been provided in the PSF for any of the PAs forming the bundle. <ul style="list-style-type: none"> Also, all the policies provided / the training documents/ Project Name Boards display/ mention "Greenko". However, no relationship between the PO and Greenko is mentioned in the PSF. PO to Clarify. vi. The average generation value to be provided in section A.1 along with source. vii. PO to correct the formatting, numbering, subscript as well as typographical errors throughout the PSF. 	
Hence, CAR 01 remains open.	
Project Owner's response	Date: 30/11/2023

<ul style="list-style-type: none"> i. Summary of Project boundary is adequately elaborated in Section A.1 ii. Details and Arrangement of Metering/ monitoring equipment for evacuation of electricity to the substation have been provided in section A.3. iii. Details on the type of modules installed is specified in sec A.3 iv. Details of voltage levels at switchyard and grid station has been provided in Section A.3 for each PA in the bundle v. For the PA Venus as well as Diamond was allotted though a State Government Competitive Bidding Process information was included in section A1. <ul style="list-style-type: none"> Details of the parties involved in the PPA included in sec B.5 and change in legal ownership of the PA has been provided in the sec A1. Relationship between the PO and Greenko is mentioned in the PSF and LOA is attached vi. The average generation value is provided in section A.1 along with source. vii. PO corrected the formatting, numbering, subscript as well as typographical errors throughout the PSF. viii. Errors of correct the formatting, numbering, subscript as well as typographical errors have been corrected by the PO throughout the PSF.
Documentation provided by Project Owner
<i>Revised PSF and Supporting Documents</i>
Project verifier assessment
Date: 30/11/2023
<ul style="list-style-type: none"> i. PO has elaborated on the summary of the project boundary and technologies/measures employed under section A.1. Hence the finding is closed. ii. Details and arrangement of metering/ monitoring equipment for evacuation of electricity to the substation have been elaborated by the PO in the revised PSF which deemed acceptable by the verification team. Hence the finding is closed. iii. The details on the type and number of modules installed have been elaborated in section A.3 of the revised which is deemed acceptable by the project verifier. Hence the finding is closed. iv. Details of voltage levels at switchyard and grid station have been provided in Section A.3 of the revised PSF for each PA in the bundle. Hence, the finding is closed. v. PO has specified the relationship between PO and Greenko as specified in section A.1 of the PSF. Equally, information provided transparently in section A.1 of the revised PSF stating PA Venus as well as Diamond were allotted though a State Government Competitive Bidding Process. Letter of Award has been attached by the PO in support of its statement which is deemed acceptable by the project verifier hence the finding is closed. vi. PO has provided the average generation value along with reference for supporting document for its calculation which is acceptable to the verification team. Hence the finding is closed. vii. PO has corrected the formatting, numbering, subscript as well as typographical errors throughout the PSF. Therefore, this finding is closed.

CAR ID	02	Section no.	D.2	Date:	17/02/2023
Description of CAR					
<p>The following discrepancies were observed during the site visit with respect to technical specifications provided under section A.3 of the PSF:</p> <ul style="list-style-type: none"> 1. M/s RT Renewables Energy India Private Limited <ul style="list-style-type: none"> a. SPV - Two different types of SPV modules are installed (with 4 different wattages), viz. Poly SI, Make: Astronergy, 315 W and 310 Wand Mono crystalline type, Sunedison make, 330 W and 325W, while details of only one (Poly-SI Astronergy) have been provided in section A.3 of the PSF. b. Inverters and Transformer details are incomplete in section A.3 2. M/s SEI Phoebus Private Limited <ul style="list-style-type: none"> a. Inverters – Total number of Inverters = 67. Inverters of two different wattages were observed 					

<p>on-site (66 nos. – 750 KW and 01 – 500 KW, Make TMEIC), while details mentioned in the PSF are found to be inconsistent.</p> <p>b. Auxiliary transformers – 17 in Number ((01 – 100 KVA Raychem make and 16 nos. 30 KVA PETE make) were found to be present and in use on sites but not mentioned in the PSF.</p> <p>3. M/s SEI Adhavan Power Private Limited</p> <p>a. SPV - Two different types of SPV modules are installed, viz. 315 W and 320 W (Sunedison) and 320 W (Risen), while details of only one (Sunedison 320) have been provided in the PSF.</p> <p>b. Inverters and Transformer details are incomplete in section A.3</p> <p>4. M/s SEI Venus Pvt Ltd</p> <p>a. SPV - Four different types of SPV modules are installed, viz. 315 W (Risen), 320 W (Risen), 345 W (Sun Edision) and 350 W (Sun Edision) while details of only one (Risen 320 W) have been provided in section A.3 of the PSF.</p> <p>b. Inverters and Transformer details provided under section A.3 are inconsistent with onsite observations. Installation of 28 inverters was confirmed on site as against 14 inverters mentioned in the PSF. Furthermore, installation of 7 CGL 4500 KVA IDTs and one 30/40 MVA power transformer was confirmed onsite.</p> <p>5. M/s SEI Diamond Pvt Ltd</p> <p>a. SPV - Three different types of SPV modules are installed, viz. 315 W (Risen), 320 W (Risen), 345 W (Sun Edision), while details of only one (Risen 320 W) have been provided in the PSF.</p> <p>b. Inverters and Transformer details provided under section A.3 are inconsistent with onsite observations. Installation of 28 inverters was confirmed on site as against 14 inverters mentioned in the PSF. Furthermore, Installation of 2 CGL 4500 KVA and 5 Danish 4500 KVA IDTs and one 30/40 MVA power transformer was confirmed onsite.</p>
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Project Owner's response	Date: 01/07/2023
The above stated details with respect to technical specifications are addressed and updated under section A.3 of the PSF.	

Documentation provided by Project Owner
<i>Revised PSF Version 1.2</i>
<i>Equipment Name Plate Photographs</i>

Project verifier assessment	Date: 14/07/2023
<p>The corrections made in the technical Specification details for Solar PV Modules and Inverters in the revised have been cross verified against the photographic evidence and found to be acceptable. The same are in accordance with observations made during the site visit. However, the following discrepancies have been observed w.r.t Transformer details:</p> <ol style="list-style-type: none"> 1. PA Adhavan: Transformer details mentioned do not match with onsite observations 2. PA Diamond: Transformer details mentioned do not match with onsite observations. Installation of 2 CGL 4500 KVA and 5 Danish 4500 KVA IDTs and one 30/40 MVA power transformer was confirmed during site visit. 3. PA Venus: Transformer details mentioned do not match with onsite observations. Installation of 7 CGL 4500 KVA IDTs and one 30/40 MVA power transformer was confirmed during site visit. <p>PO to make required corrections and provide evidence for the same. Hence, CAR 02 remains open.</p>	

Project Owner's response	Date: 30/11/2023
Transformer details of Adhavan, Diamond & Venus details were corrected in section A.3 and name plates of the transformers are attached.	

Documentation provided by Project Owner	
<i>Revised PSF and Supporting documents</i>	
Project verifier assessment	Date: 30/11/2023

Project Verification Report

The PO has revised section A.3 of the PSF, addressing the discrepancies observed. This was crosschecked with on-site records and is acceptable to the verification team. Hence, the CAR 02 is closed.

CAR ID	03	Section no.	D.3.1	Date: 17/02/2023
Description of CAR				
<ul style="list-style-type: none"> i. Applicability conditions of the 'Tool to calculate the emission factor for an electricity system, Version 07.0 (Tool 07)' have not been included for justification in section B.2 of the PSF. ii. All applicability conditions mentioned under section 2.2 of "Tool 24 - Common Practice Version 3.1" and section 2.1 of "Tool 27 - Investment analysis, Version 11.0" have not been included for justification in section B.2. 				
Project Owner's response				Date: 01/07/2023
In section B.2, all applicability conditions for all Tools used are included and justified.				
Documentation provided by Project Owner				
<i>Revised PSF Version 1.2</i>				
Project verifier assessment				Date: 14/07/2023
<ul style="list-style-type: none"> i. All applicability conditions but applicability condition 06 pertaining to CO₂ emission factor of biofuels of the 'Tool to calculate the emission factor for an electricity system, Version 07.0 (Tool 07)' was referred. Hence, finding remains Open. ii. All applicability conditions mentioned under section 2.2 of "Tool 24 - Common Practice Version 3.1" and section 2.1 of "Tool 27 - Investment analysis, Version 11.0" have now been included for justification in section B.2 of the revised PSF. The same are found to be appropriate and acceptable to the verification team and hence the findings are closed. 				
Project Owner's response				Date: 30/11/2023
i. Applicability condition 06 pertaining to CO ₂ emission factor of biofuels is corrected. (No bio fuels are used by the project activity)				
Documentation provided by Project Owner				
<i>Revised PSF</i>				
Project verifier assessment				Date: 30/11/2023
i. All applicability conditions for the 'Tool to calculate the emission factor for an electricity system, Version 07.0 (Tool 07)' has been elaborated by the PO in the revised PSF appropriately. This is acceptable to the verification team and therefore, the finding is closed.				

CAR ID	04	Section no.	D.3.3	Date: 17/02/2023
Description of CAR				
PO is required to describe the project boundary in section B.3				
Project Owner's response				Date: 01/07/2023
PO has described about project boundary in section B.3				
Documentation provided by Project Owner				
<i>Revised PSF Version 1.2</i>				
Project verifier assessment				Date: 14/07/2023
The project boundary in section B.3 is to be elaborated upon in accordance with the applied methodology. CAR 04 remains Open.				
Project Owner's response				Date: 30/11/2023
The project boundary in section B.3 is elaborated in accordance with the applied methodology.				
Documentation provided by Project Owner				
<i>Revised PSF</i>				
Project verifier assessment				Date: 30/11/2023
PO has elaborated in section B.3, a description of the project boundary which is acceptable to the verification team. Hence, the finding is closed.				

CAR ID	05	Section no.	D.3.4	Date: 17/02/2023
Description of CAR				

Under section B.4 of the PSF:			
<ul style="list-style-type: none"> i. PO is required to provide and explain all data used to establish the baseline scenario viz. parameters, data sources along with relevant references. ii. PO is also required to describe how the relevant national and/or sectoral policies, regulations and circumstances are taken into account. 			
Project Owner's response			Date: 01/07/2023
Under section B.4 of the PSF:			
<ul style="list-style-type: none"> i. PO has provided and explained all data used to establish the baseline scenario viz. parameters, data sources along with relevant references. ii. PO has also described how the relevant national and/or sectoral policies, regulations and circumstances are taken into account. 			
Documentation provided by Project Owner			
<i>Revised PSF Version 1.2</i>			
Project verifier assessment			Date: 14/07/2023
<ul style="list-style-type: none"> i. The PSF is appropriately revised to include the data used to establish the baseline scenario along with relevant references. The baseline emission factor parameters are based on the latest available database published by the Central Electricity Authority (CEA), Government of India. Version 17.0 that was applicable was the time of PSF submission to GCC. The same is found to be appropriate and acceptable to the verification team. However, section B.4 mentions the application of both Version 16.0 and 17.0 of the CEA database. Correction requested. Finding remains open. ii. Description as to how the relevant national and/or sectoral policies, regulations and circumstances are taken into account has to be elaborated upon. PO to co-relate the same with other relevant sections of the PSF. Finding remains open. 			
Project Owner's response			Date: 30/11/2023
<ul style="list-style-type: none"> i. section B.4 was corrected with 17.0 of the CEA database. ii. While the relevant national and/or sectoral policies, regulations are explained under Legal requirement test, how the relevant national and/or sectoral policies, regulations and circumstances are taken into account has been elaborated and co-related with other relevant sections in sub-step 1(b) (consistency with mandatory laws and regulations) of sec. B.5. 			
Documentation provided by Project Owner			
<i>Revised PSF</i>			
Project verifier assessment			Date: 30/11/2023
<ul style="list-style-type: none"> i. Section B.4 of the revised PSF now mentions the application of the latest version of the available database published by the Central Electricity Authority of India i.e., version 17.0. Hence, the finding is closed. ii. Description as to how the relevant national and/or sectoral policies, regulations and circumstances are elaborated upon and made consistent with other relevant sections of the revised PSF. Hence, the finding is closed. 			
CAR ID	06	Section no.	D.3.5
Date: 17/02/2023			
Description of CAR			
Under Section B.5 of the PSF:			
<ul style="list-style-type: none"> i. The Legal Requirement Test to demonstrate additionality is required to be elaborated upon supported with details and documentary evidence. ii. In accordance with para 20 of clarification 1, "The common practice shall be ascertained for each bundle or activity depending upon the level for which additionality is defined." As additionality is defined at the activity level, common practice will be defined at the same level (each activity). iii. Common Practice analysis step 2(a), identifies "the states of Telangana and Andhra Pradesh in India as the applicable geographical area". Justification for the specific selection as against the rest of the host country in accordance with Paragraph 9 of applied Tool 24 is not provided. 			

Project Owner's response		Date: 01/07/2023	
<ul style="list-style-type: none"> i. The Legal Requirement Test to demonstrate additionality is elaborated upon supported with details and documentary evidence. ii. In accordance with para 20 of clarification 1, common practice and additionality are ascertained at the same level (i.e., for each activity in the bundle). iii. For Common Practice analysis step 2(a), justification for selected geographical area against the rest of the host country in accordance with Paragraph 9 of applied Tool 24 is provided in PSF. 			
Documentation provided by Project Owner			
<i>Revised PSF Version 1.2 Plantwise Details of All India Renewable Energy Projects-Reg dt. 20/03/2020 published by CEA, Ministry of Power, Govt. of India.</i>			
Project verifier assessment		Date: 14/07/2023	
<ul style="list-style-type: none"> i. The Legal Requirement Test to demonstrate additionality is not elaborated upon supported with details and documentary evidence. The finding therefore remains open. ii. In accordance with para 20 of clarification 1, common practice analysis has now been carried out separately for each PA forming the bundle. However, the following discrepancies have been observed: <ul style="list-style-type: none"> 1. Under Step 1 (e) the range of capacities for projects is wrongly mentioned for Adhavan and Phoebus. 2. For Adhavan, all Projects falling within the capacity range have not been mentioned. Please refer Pg. 993 of the supporting document. <p>Furthermore, PO to mention the relevance of chosen cut-off date for common practice analysis and provide documentary evidence for the same.</p> <p>PO to also provide functional web-links in the footnotes. The finding therefore remains open.</p> iii. Justification for the specific selection of a state as against the rest of the host country is now provided in the revised PSF. The same is acceptable to the verification team and hence the finding is closed. 			
Project Owner's response		Date: 30/11/2023	
<ul style="list-style-type: none"> i. The Legal Requirement Test to demonstrate additionality is elaborated with supporting details in sec B.5. in the revised PSF. The section has been clearly marked for easy identification. ii. PO mentioned the relevance of chosen cut-off date for common practice analysis and necessary corrections were made for Adhavan. Documents considered for common practice analysis is attached 			
Documentation provided by Project Owner			
<i>Revised PSF and Supporting documents</i>			
Project verifier assessment		Date: 30/11/2023	
<ul style="list-style-type: none"> i. Legal Requirement Test to demonstrate additionality is elaborated with supporting details in section B.5 of the PSF which is deemed acceptable. Hence, this finding is closed. ii. PO has revised section B.5 of the PSF to address and correct the aforementioned discrepancies and to mention the relevance of chosen cut-off date for common practice analysis along with documentary evidence. Hence, the finding is closed. 			
CAR ID	07	Section no.	D.3.6, D.3.7
Description of CAR		Date: 17/02/2023	

Under Section B.6 of the PSF:	
<ul style="list-style-type: none"> i. In accordance with paragraph 14 of the 'Tool to calculate the emission factor for an electricity system, Version 07.0 (Tool 07)', PO is required to explain how the steps involved in calculation of baseline emission factor are applied along with justification for choices and relevant references in section B.6.1. ii. The version of CEA database referred to in section B.6.2 is obsolete. The latest available version is 17, October 2021. iii. The PO is required to provide a transparent calculation of baseline emission, emission reductions expected during the crediting period in section B.6.3. 	

Project Owner's response	Date: 01/07/2023
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Under Section B.6 of the PSF:	
<ul style="list-style-type: none"> i. In accordance with paragraph 14 of the 'Tool to calculate the emission factor for an electricity system, Version 07.0 (Tool 07)', PO has explained how the steps involved in calculation of baseline emission factor are applied along with justification for choices and relevant references in section B.6.1. ii. The latest available version 17, October 2021 is used. Same is referred in section B.6.2. iii. The PO has provided a transparent calculation of baseline emission, emission reductions expected during the crediting period in section B.6.3. 	

Documentation provided by Project Owner

Revised PSF Version 1.2

Project verifier assessment	Date: 14/07/2023
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Section B.6.1 of the revised PSF appropriately explains the steps involved in calculation of baseline emission factor along with justification for choices and relevant references. The same is in accordance with Tool 07 applied. Furthermore, the latest available version of "CO₂ Emission Database" i.e. Version 17.0, published by CEA, has been appropriately used throughout the revised PSF. The PO has also provided a transparent calculation of baseline emission, emission reductions expected during the crediting period in section B.6.3.

The corrections made in the revised PSF are found to be acceptable to the verification team and hence CAR 07 is closed.

CAR ID	08	Section no.	D.6	Date: 17/02/2023
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Description of CAR

In section G of the PSF, it is not clear whether the E+/S+/SDG impacts of project were discussed during LSC meeting.

Project Owner's response	Date: 01/07/2023
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In section G of the PSF, discussion about SDG impacts of project were discussed during LSC meeting is mentioned

Documentation provided by Project Owner

Revised PSF Version 1.2

Project verifier assessment	Date: 14/07/2023
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SGD impacts of the project discussed during the LSC meetings are to be elaborated upon in section G of the PSF in addition to details about No net harm to Environment (E+) as well as No net harm to the Society (S+) discussed as neither section G.1 / G.2 provide details about the same. Summary of comments provided revolves mainly around employment and welfare. **The finding therefore remains open.**

Project Owner's response	Date: 30/11/2023
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Section G has been revised by including the details of how the project activity contributes to E+/S+/UN SDG goals. Summary of comments not only includes employment and welfare, but also about the impact of the project activity on the climatic condition. The question on welfare raised by the stakeholders is in fact all-inclusive in as much as it includes jobs, training, medical facilities, water supply, power, etc. That is why, the project representative had requested the shareholders to present their requirements to the site-in-charge through the village representative, so that the activities could be taken up based on the priority and fund availability.

Project Verification Report

Documentation provided by Project Owner	
<i>Revised PSF</i>	
Project verifier assessment	Date: 30/11/2023
PO has revised section G of the PSF, outlining the E+/S+/SDG impacts of the project discussed during the LSC meetings. This is acceptable to the verification team. Hence, the finding is closed.	

Table 3. FARs from this project verification

FAR ID	01	Section no.	D.7, D.13, D.14	Date: 17/02/2023
Description of FAR				
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				
Project Owner's response				Date: DD/MM/YYYY
Documentation provided by Project Owner				
Project verifier assessment				Date: DD/MM/YYYY

Appendix 5. Environmental Safeguard Assessment

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				
<p>Environmental Aspects on the identified categories⁸ 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 plant design and operating principles,</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, then the Project Activity</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/regulatory or requirements or industry</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 of 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 baseline alternative.</p>

⁸ sourced from the CDM SD Tool and the sample reports are available (<https://www4.unfccc.int/sites/sdcmicrosite/Pages/SD-Reports.aspx>)

Project Verification Report

					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.	is likely to cause harm (may be un-safe) and shall be indicated as Harmful	best practice or stricter voluntary corporate requirements					
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)	The project activity does not cause SOx emissions. The project activity avoids SOx emissions that would have been generated by the similar activity in the baseline, where the fuel used are fossil fuels.	National Ambient Air Quality Standards as notified by CPCB.	Not Applicable	-	-	Not applicable.	Not applicable.	No action required	0	The Project proponent confirms that the project activity will not cause SOx emissions.	There will be no SOx emissions or risk from the project being it Solar power project. However, the Assessment team feels that project activity does have an unquantifiable positive impact on SOx emissions as otherwise same amount of electricity would have been generated in baseline thermal power plants and that would have emitted some amount of SOx emissions. The Project Owner has not wished to

Project Verification Report

												identify the same and being it an overall positive impact, accepted by the assessment team
<i>NO_x emissions (EA02)</i>	The project activity does not cause NOx emissions. The project activity avoids NOx emissions that would have been generated by the similar activity in the baseline, where the fuel used are fossil fuels.	National Ambient Air Quality Standards as notified by CPCB.	Not Applicable	-	-	Not applicable	Not applicable-	No action required	0	The Project proponent confirms that the project activity will not cause NOx emissions.	There will be no NOx emissions or risk from the project being it Solar power project. However, the Assessment team feels that project activity does have an unquantifiable positive impact on NOx emissions as otherwise same amount of electricity would have been generated in baseline thermal power plants and that would have emitted some amount of NOx emissions. The Project Owner has not wished to identify the same and being it an overall positive impact, accepted by the assessment team	
<i>CO₂ emissions (EA03)</i>	Project Activity generates Electricity from renewable source. Hence no CO2 emissions from the project activity. In the absence of project fossil fuel based power plants will be used which produce more CO ₂	National Ambient Air Quality Standards as notified by CPCB.	-	Harmless	-	Not applicable	Not applicable-	Emission reductions in tCO ₂ e per year monitored through ER sheet on a monthly basis using the emission factor	+1	Project owner concludes that, the project does not generate CO ₂ as the power is generated using renewable energy CO ₂ Emission reduction will be measured	In absence of the project activity, the electricity generated from the project activity would be generated in the Indian Grid by power plants that are	

Project Verification Report

		emissions to generate electricity.									<p>based on the electricity generated using the emission reduction factor</p> <p>predominantly fossil-fuel based, thereby leading to CO₂ emissions. The generated electricity by the project activity is based on the renewable energy source, which causes no CO₂ emissions. The project will thus have a positive impact by reducing measurable amount of CO₂ emissions. The project is expected to reduce CO₂ emission throughout the crediting period. As no negative environmental impacts are anticipated, the parameter is evaluated as harmless and scored a +1 by the project owner. This is accepted by the project verification team.</p> <p>This amount of emission reduction will be monitored as per monitoring plan in the PSF section B.7.1 and assessment of the same is provided section D.3.7 of the Project</p>
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Project Verification Report

												Verification Report.
<i>CO emissions (EA04)</i>	<p>The project activity does not generate any CO emissions within or outside the project boundary.</p> <p>In the absence of project activity, there is a possibility of CO emissions.</p>	National Ambient Air Quality Standards as notified by CPCB.	Not Applicable	-	-	No action required	Not applicable	No action required	0	PP concludes that, there is no CO emissions are observed during operation of plant.	<p>There will be no CO emissions or risk from the project being it Solar power project. However, the Assessment team feels that project activity does have an unquantifiable positive impact on CO emissions as otherwise same amount of electricity would have been generated in baseline thermal power plants and that would have emitted some amount of CO emissions. The Project Owner has not wished to identify the same and being it an overall positive impact, accepted by the assessment team.</p>	
<i>Suspended particulate matter (SPM) emissions (EA05)</i>	<p>Executed Project activity does not produce any SPM emissions except during construction.</p>	National Ambient Air Quality Standards as notified by CPCB.	Not Applicable	-	-	No action required	Not applicable	No action required	0	<p>PP concludes that, no SPM emissions produced from the Project activity during Operational phase.</p> <p>Negligible amount of emissions during construction.</p>	<p>There will be no SPM emissions or risk from the project being it Solar power project.</p>	

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<i>Fly ash generation (EA06)</i>	Fly ash emissions are not produced from this project activity either within or outside the project boundary. In the absence of project activity, conventional power plant produce Fly ash emissions	National Ambient Air Quality Standards as notified by CPCB.	Not Applicable	-	-	Not applicable	Not applicable	No action required-	0	PP confirms that, in the baseline scenario (grid) some of the fossil fuel power plants produce Fly ash emissions, on which data is not available.	There will be no Fly Ash emissions or risk from the project being it Solar power project. However, the Assessment team feels that project activity do have an unquantifiable positive impact on Fly ash emissions as otherwise some amount of electricity would have been generated in baseline from COAL based thermal power plants and that would have emitted some amount of Fly Ash emissions. The Project Owner has not wished to identify the same and being it an overall positive impact, accepted by the assessment team.	
<i>Non-Methane Volatile Organic Compounds (NMVOCs) (EA07)</i>	The solar plant does not cause any NMVOC emission	National Ambient Air Quality Standards as notified by CPCB	Not applicable	-	-	Not applicable	Not applicable	No action required	0	PP confirms that the project activity does not emit any NMVOCs and solar energy projects have been classified as white category. An acknowledgement from MOEF for White	There will be no NMVOC emissions or risk from the project being it Solar power project. However, the Assessment team feels that project activity does have an unquantifiable	

Project Verification Report

											Category industry enclosed is	positive impact on NMVOC emissions as otherwise same amount of electricity would have been generated in baseline thermal power plants and that would have emitted some amount of NMVOC emissions. The Project Owner has not wished to identify the same and being it an overall positive impact, accepted by the assessment team.
	<i>Odor (EA08)</i>	The project does not emit any odor.	National Ambient Air Quality Standards as notified by CPCB	Not applicable	-	-	Not applicable	Not applicable	No action required		PP confirms that the project activity does not emit any odor.	There is no risk of odor emission as project activity is a Solar power plant
	<i>Noise Pollution (EA09)</i>	The project does not produce any noise.	Noise (Regulation and control Rules 2000 amended in 2010)	Not applicable	-	-	Not applicable	Not applicable	No action required		PP confirms that the project activity does not produce any noise.	There is no risk of Noise pollution as project activity is a Solar power plant.
Environment - Land	<i>Solid waste Pollution from Plastics (EL-01)</i>	No plastic waste is generated by the project activity	Plastic Waste (Management and Handling) Rules, 2016	Not applicable	-	-	Not applicable	Not applicable	No action required		The project does not generate any plastic waste. Thus PP concludes that there is no solid waste pollution from plastics.	There will be no major plastic waste generated due to the project activity.

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<p><i>Solid waste Pollution from Hazardous wastes(EL02)</i></p>	<p>There is no possibility of waste generation from hazardous wastes on year to year basis. Even otherwise if any waste is generated at site, PO has a standard procedure for disposal of such waste. Whenever such waste is generated, the same is stored at designated place at site and disposed off through approved PCB vendors.</p>	<p>Hazardous and other Wastes(Management and Transboundary Movement) Rules, 2016</p>	<p>Not applicable</p>	<p>-</p>	<p>-</p>	<p>Not applicable</p>	<p>Not applicable</p>	<p>No action required</p>		<p>The project does not generate any hazardous waste on year to year basis. Even otherwise if any waste is generated at site, PO has a standard procedure for disposal of such waste. Whenever such waste is generated, the same is stored at designated place at site and disposed off through approved PCB vendors on yearly basis. Thus doesn't harm environment.</p>	<p>The project has not generated hazardous waste till now. PO has a standard procedure for disposal of such waste. Whenever such waste is generated, the same is stored at designated place at site and disposed off through approved PCB vendors on yearly basis.</p>
<p><i>Solid waste Pollution from Bio-medical wastes (EL03)</i></p>	<p>No bio medical waste is generated by the project activity</p>	<p>Biomedical Waste Management Rules 2016(Movement) Rules, 2016</p>	<p>Not applicable</p>	<p>-</p>	<p>-</p>	<p>Not applicable</p>	<p>Not applicable</p>	<p>No action required</p>		<p>Project proponent confirms that the project activity does not generate any biomedical waste. Thus there is no solid waste pollution from biomedical wastes</p>	<p>No risk identified</p>
<p><i>Solid waste Pollution from E-wastes (EL04)</i></p>	<p>There is a probability of project generating E-wastes (spares of SCADA system and inverters).</p>	<p>E-waste (Management and Handling) Rules 2011</p>	<p>-</p>	<p>Harmless</p>	<p>-</p>	<p>It will be Collected, stored at designated place and it is recycled/re-furnished / reused /disposed properly through authorized</p>	<p>Not applicable</p>	<p>Solid waste(E-waste) quantity numbers) reused/recycled/refurbished or disposed per year Monitored through records maintained or form 2 of waste</p>	<p>+1</p>	<p>PP concludes that, the solid waste from E-wastes will be collected, segregated and reused/recycled/refurbished/ and disposed properly. Hence, E-waste</p>	<p>The e-waste generated by the Project activity viz. Spares of SCADA system, inverters, and other electrical and electronic parts involved in the project or post their useful</p>

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							vendors and comply with the rules of E Waste disposal guidelines		management		will not cause any harm to environment	life will be disposed as per prevailing laws and regulations i.e. E-Waste (Management) Rules, 2011. Monitoring plan is provided in section B.7.2 of the PSF to ensure the compliance with the regulations in place. The same will be monitored throughout the crediting period by the project owner by means of records of e-waste re-used/recycled/re-furbished or disposal from the project activity. The same was confirmed during the onsite assessment /30/ and accepted by the verification team. The monitoring plan provided is provided in section B.7.2 is appropriate and assessment of the same is provided section D.3.7 of the Project Verification Report.
<i>Solid waste Pollution from Batteries (EL05)</i>	The project activity will generate solid waste from batteries, at the end of life of batteries.	Battery Waste Management rules-2016	Not Applicable	-	-	Used batteries will be returned to the battery manufacturers, who	Not Applicable	No required action		PP concludes that the batteries will be returned to the manufactures as	No risk identified	

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							will recycle them-				a part of Battery Management Rules.	
<i>Solid waste Pollution from end of life products/ equipment (EL06)</i>	There is no possibility of waste generation from end of life products on year to year. Even otherwise if any waste is generated at site, PO has a standard procedure for disposal of such waste. Whenever such waste is generated, the same is stored at designated place at site and disposed off to approved PCB vendors.	Solid Waste Management Rules, 2016	Not Applicable	-	-	-	Not applicable	Not applicable	No action required		PP concludes that the project will not generate any solid waste from end of life products / equipment during operational phase on year to year basis. Even otherwise if any waste is generated at site, PO has a standard procedure for disposal of such waste. Whenever such waste is generated, the same is stored at designated place at site and disposed off to approved PCB vendors.	PO has a standard procedure for disposal of such waste. Whenever such waste is generated, the same is stored at designated place at site and disposed off through approved PCB vendors on yearly basis.
<i>Soil Pollution from Chemicals (including Pesticides, heavy metals, lead, mercury) (EL07)</i>	The project does not use any chemicals (including pesticides, heavy metals ,lead, mercury)	Not applicable	Not applicable	-	-	-	Not applicable	Not applicable	No action required		PP confirms that the project will not generate any soil pollutant chemicals, including pesticides, heavy metals, lead and mercury	No significant soil pollution from chemicals during operation phase of the project activity. However, in the baseline scenario (grid) some of the fossil fuel power plants may have polluted soil from chemicals on which data is not available and can't be quantified and therefore the emission reductions cannot be

Project Verification Report

												quantified and therefore this parameter will not be scored.
	<i>land use change (change from cropland/forest land to project land) (EL08)</i>	Project activity is established in non crop land and non forest land, so there is no change in land use.	The Telangana Agricultural Land (Conversion for Non Agricultural Purposes) Act, 2006	Not Applicable	-	-	Not applicable-	Not applicable-	- No action required		Project activity is located in non-crop/ non-forest area. Hence, the question of change in land use does not arise.	No risk identified
Environment - Water	<i>Reliability / accessibility of water supply (EW01)</i>	Not Applicable	Not applicable	Not applicable	-	-	Not applicable	Not applicable	No action required		Project activity does not require water except for drinking and sanitary purposes	No risk identified
	<i>Water Consumption from ground and other sources (EW02)</i>	Ground water will be utilised for cleaning of modules at the site.		Not Applicable (No Actions Required)	-	-	Not applicable	Not applicable	No action required		PP confirms that there is no major impact from the project activity, by water consumption from ground and other sources.	No risk identified
	<i>Generation of wastewater (EW03)</i>	Not Applicable	The Water (Prevention & Control of Pollution) Act, 1974	Not applicable	-	-	Not applicable	Not applicable	No action required		The project activity does not generate any wastewater, except water used for sanitary purposes, which is harmless.	No risk identified
	<i>Wastewater discharge without/with insufficient treatment (EW04)</i>	Not Applicable	The Water (Prevention & Control of Pollution) Act, 1974	Not applicable	-	-	Not applicable	Not applicable	No action required		The project activity does not discharge any wastewater other than water used for sanitary purposes, which is harmless.	No risk identified

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	<i>Pollution of Surface, Ground and/or Bodies of water (EW05)</i>	Not Applicable	The Water (Prevention & Control of Pollution) Act, 1974	Not applicable	-	-	Not applicable	Not applicable	No required action		The project activity does not pollute surface/ground and/or bodies of water.	No risk identified
	<i>Discharge of harmful chemicals like marine pollutants / toxic waste (EW06)</i>	Not Applicable	The Water (Prevention & Control of Pollution) Act, 1974	Not applicable	-	-	Not applicable	Not applicable	No required action		The project activity does not discharge any harmful chemicals or toxic waste	
Environment – Natural Resources	<i>Conserving mineral resources (ENR01)</i>	The project activity generates electricity from renewable source i.e., using solar, so we conserve natural resources as, in the baseline scenario, electricity is generated by using fossil fuels.	Mines and Minerals (Development and Regulation) Amendment Act, 2015	Not Applicable	-	-	Not applicable	Not applicable	No required action	0	PP concludes that, project activity does not use any mineral, as the electricity is generated based on renewable sources	No risk identified
	<i>Protecting / enhancing plant life (ENR02)</i>	Not Applicable	There are no regulations	Not Applicable	-	-	Not applicable	Not applicable	No required action		Project activity is implemented in barren land. There were no trees at the time of implementation.	No risk identified
	<i>Protecting / enhancing species diversity (ENR03)</i>	Not Applicable	Environment Protection Act, 1986.	Not Applicable	-	-	Not applicable	Not applicable	No required action		The protect or enhance species diversity	No risk identified
	<i>Protecting / enhancing forests (ENR04)</i>	Not applicable	The Forest (Conservation) Act, 1980 & 1981	Not applicable	-	-	Not applicable	Not applicable	No required action		The project proponent confirms that the project is located in a barren land,	No risk identified
	<i>Protecting / enhancing</i>	Not applicable	Mines and Minerals	Not applicable	-	-	Not applicable	Not applicable	No required action		Project proponent confirms that the	No risk identified

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	<i>g other depletable natural resources (ENR05)</i>		(Development and regulation) Act, 1957								project will not use any natural resources in the project activity	
	<i>Conserving energy (ENR06)</i>	Not applicable	Energy Conservation Act, 2001	Not applicable			Not applicable	Not applicable	No action required		As the project is a renewable energy project, it is already conserving energy, as in the absence of the project, energy would have been generated using fossil fuel.	No risk identified
	<i>Replacing fossil fuels with renewable sources of energy (ENR07)</i>	This project activity replace fossil fuels with solar energy, which is a renewable energy source for the generation of electricity.	There are no Regulations at present,	-	Harmless	-	Not applicable-	Not applicable	Quantity of net electricity generated per year replacing fossils fuel., evidenced by Joint Meter Reading	+1	Project proponent concludes that the Project activity will Supply Energy to the grid using Renewable Source of energy.	In absence of the project activity, the equivalent amount of electricity would be generated from the operation of grid-connected power plants, which is GHG intensive. The project activity generates and supplies renewable solar sourced based electricity to the grid, where it replaces fossil fuel source-based electricity, thus the project activity is unlikely to cause any harm and is assessed as harmless. As the project activity will have a positive impact by replacing fossil

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												<p>fuels with renewable sources of energy, the parameter is evaluated as harmless and scored a +1 by the project owner. This is accepted by the project verification team.</p> <p>This amount of emission reduction will be monitored as per monitoring plan in the PSF section B.7.1 and assessment of the same is provided section D.3.7 of the Project Verification Report.</p>	
	Replacing ODS with non-ODS refrigerants (ENR08)	Not Applicable	There are no regulations at present	Not applicable			Not applicable	Not applicable-	No action required			As this is a renewable energy project replacement of ODS with non-ODS refrigerants does not arise	No risk identified
Net Score:				+3									
Project Owner's Conclusion in PSF:				The Project Owner confirms that the Project Activity will not cause any net harm to 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 Assessment

Impact of Project Activity on		Information on Impacts, Do-No-Harm Risk Assessment and Establishing Safeguards						Project Owner's Conclusion		GCC Project Verifier's Conclusion (To be included in Project Verification Report only)	
		Description of Impact (positive or negative)	Legal 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 categories⁹ indicated below.	Indicators for social impacts	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	Describe the applicable national regulatory requirements / legal limits or organizational policies or industry best practices related to the identified risks of social impacts	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	If social impacts exist, but are expected to be in compliance with applicable national regulatory requirements/ stricter voluntary corporate limits by way of plant design and operating principles then the Project Activity is unlikely to cause any harm (is	If negative social impacts exist that will not be in compliance with the applicable national legal/regulatory requirements or are likely to exceed legal limits then the Project Activity is likely to cause harm and shall be indicated as Harmful	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 .	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 along with the data source	-1 0 +1	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	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 baseline alternative.

⁹ 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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					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 "						
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) (i)	
Social - Jobs	Long-term jobs (> 10 year) created/ lost (SJ01)	There is a positive impact of the project activity on the creation of long-term jobs during its operational time.	There are no Regulations at present	-	Harmless	-	No action required	Number of persons employed(> 1 year) and monitored per year through employment records	+1	Though there is no mandatory law PP has an internal goal of improving the local economy by providing direct and indirect employment opportunities and Economic value addition.	The project activity will lead to long term employment generation during the operational phase which can be verified from the employment records maintained on site for each project activity. The monitoring approach is discussed in section D.3.7 of this report. The aforementioned documents can be verified during issuance verification in accordance with the monitoring plan in the PSF section B.7.1.

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											and E.2. The creation of permanent jobs is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.
	<i>New short-term jobs (< 1 year) created/lost (SJ02)</i>	There is a positive impact of the project activity on the creation of short-term jobs for local worker during its construction phase and operational phase.	There are no Regulations at present	-	Harmless	-	No action required	Number of persons employed(< 1 year) per year	+1	Though there is no mandatory law PP has an internal goal of improving the local economy by providing short term employment and Economic value addition.	The project activity has led to short term employment generation during the construction and the operational phase which can be verified from the employment records maintained on site for each project activity. The monitoring approach is discussed in section D.3.7 of this report. The aforementioned documents can be verified during issuance verification in accordance with the monitoring plan in the PSF

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											<p>section B.7.1. and E.2.</p> <p>The creation of temporary jobs is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.</p>
	<p><i>Sources of income generation increased / reduced (SJ03)</i></p>	<p>The project activity creates employment for people through infrastructure development in the nearby project area which will increase income of people.</p>	<p>There are no regulations at present</p>	<p>Not Applicable</p>	<p>-</p>	<p>-</p>	<p>No action required</p>	<p>Not applicable</p>	<p>0</p>	<p>PP confirms that, the project activity will create jobs for people through infrastructure development which will increase in source of income.</p>	<p>No risk identified</p>
	<p><i>Avoiding discrimination when hiring people from different race, gender, ethnics, religion, marginalized groups, people with disabilities (SJ04)</i> (human rights)</p>	<p>The project will provide employment to all without discrimination based on gender, ethnicity, religion, etc.</p>	<p>Article 16 of Constitution of India</p>	<p>Not applicable</p>	<p>-</p>	<p>-</p>	<p>No action required</p>	<p>Not applicable</p>	<p>0</p>	<p>As the constitution provides for equal opportunity to all in employment, PP confirms that the project will provide employment without discrimination..</p>	<p>No risk identified</p>
<p>Social - Health &</p>	<p><i>Disease prevention (SHS01)</i></p>	<p>There is no disease prevention through the project</p>	<p>The Factories Act, 1948</p>	<p>Not applicable</p>	<p>-</p>	<p>-</p>	<p>No action required</p>	<p>Not applicable</p>		<p>PP confirms that the project will maintain proper</p>	<p>No risk identified</p>

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Safety		activity								hygienic condition to protect the employees.	
	<i>Occupational health hazards (SHS02)</i>	Like in any project, physical stress is the only occupational health hazard.	The Factories Act, 1948	Not applicable	-	-	No action required	Not applicable		PP confirms that the project will provide good working environment to employees so that they are not exposed to any occupational health hazards.	No risk identified
	<i>Reducing / increasing accidents/incidents/fatality (SHS03)</i>	Project activity will strive to reduce the accidents during construction and operational phase by its EHS policy.	There are no specific Regulations on this aspect	-	Harmless	-	As per the Factories Act, a written notice should be given to the Factories Inspector within 72 hours of the occurrence of accident and acknowledgment taken	Records of major accidents/incidents rate in the year monitored through EHS records For this parameter trainings are also provide for which Training records are maintained	+1	PP has an strict EHS policy which aims to reduce accidents and ensure employee health and safety, Employees will be trained in operation and maintenance aspects of solar plant and will be provided with necessary safety equipment to avoid accidents.	As per the PSF /1/, records of major accidents/incidents in a year will be monitored through EHS records. The project owner shall provide the job-related Health and safety trainings to its employees on regular interval, and the number of accidents occurred can be verified at the time on emission reduction verification in accordance with the monitoring plan in the PSF section B.7.1. and E.2. The monitoring approach is discussed in section D.3.7 of this report. The impact

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											created by the project is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has been found acceptable by the team.
<i>Reducing / increasing crime (SHS04)</i>	The project doesn't reduce or increase the crime.	Indian Penal Code deals with crime and punishment	Not applicable	-	-	No action required	Not applicable			Since the project activity will increase the sources of income of the people and develop infrastructure in and around the area, crime rate will come down. No credit is claimed	No risk identified
<i>Reducing / increasing food wastage (SHS05)</i>	The project activity doesn't involve in reducing/increasing food wastage	Food Waste (Reduction) Act, 2018	Not applicable	-	-	No action required	Not applicable			The project will provide suitable place for employees to store the lunch and dine to avoid any contamination and wastage. Food wastage is not anticipated.	No risk identified
<i>Reducing / increasing indoor air pollution (SHS06)</i>	The project activity doesn't involve in reducing/increasing indoor air pollution	The Air (Prevention & Control of Pollution) Act, 1981	Not applicable	-	-	No action required	Not applicable			Project proponent confirms that the solar energy projects are installed in open and do not cause any air pollution.	No risk identified
<i>Efficiency of health services (SHS07)</i>	The project activity conducts medical camps, distribution of medicines and vaccines for the stakeholders which will contribute to rural or community welfare in terms of	There are no statutory regulations on efficiency of health services in India at present	-	Harmless	-	No action required	Number of health camps conducted. Vaccines distributed Medicine distributed These will be monitored once	+1		Project proponent will conduct health camps for people in the nearby villages.	The project owner will organize medical camps including distribution of medicines and vaccines for the local people. The number of

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		efficiency of health services.						in four years			<p>health camps conducted, vaccines distributed, and Medicine distributed will be monitored once in four years.</p> <p>The same could be verified during issuance verification in accordance with the monitoring plan in the PSF section B.7.1. and E.2</p> <p>The parameter is a positive impact created by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.</p>
	<i>Sanitation and waste management (SHS08)</i>	Not Applicable	Hazardous and other Wastes (Management and Trans boundary movement) Amendment Rules, 2016	Not applicable	-	-	No action required	Not applicable		The project proponent confirms that the project will ensure proper disposal of wastes as per Central Pollution Control Board guidelines ;Septic tank will be provided with onsite treatment before disposal. Toilets, septic tanks and	No risk identified

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										waste collection areas will be located away from natural drainage channels.	
Social - Education	<i>specialized training / education to local personnel (SE01)</i>	The Project proponent will provide skill development training to local youths mainly on subjects relating to the project. This will have a positive impact on the project as it will create a reservoir of talents employable when need arises	There are no regulations at present	-	Harmless	-	Training will be provided to local youths to improve their skillset, on operation and maintenance of project;; Occupational safety First aid, accident reporting etc.	Number of persons trained over entire crediting period Training attendance sheet	+1	Project proponent Confirms that, training will be provided to local youths to upgrade their skills.	As per the PSF/1/ and interview with the project owner/30/, the project owner would impart training to the local youth periodically so as to increase the skill set of on operation and maintenance of project; occupational safety, first aid, accident reporting etc. The monitoring approach is discussed in section D.3.7 of this report. The same could be verified from the training records and interviews with the employees to confirm the same during issuance verification in accordance with the monitoring plan in the PSF section B.7.1. and E.2 The parameter is a positive impact created

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											by the project activity and thus this impact is assessed as harmless. An appropriate monitoring plan has been put in place to monitor the parameter for the impact, hence the scoring of +1 has found acceptable by the team.
	<i>Educational services improved or not (SE02)</i>	The project activity under CSR program improves educational services as the requirement of nearby communities and fund availability	CSR policy of the company	Not Applicable	-	-	No action required	Not applicable	0	Project proponent will take initiative under CSR to improve educational services to the local communities	No risk identified
	<i>Project-related knowledge dissemination effective or not (SE03)</i>	Project provides job-related training and thereby impart knowledge to existing employees and new recruits	HR policy of the company	Not applicable	-	-	Training operation & maintenance of solar panels occupational safety, like fire safety, first aid, emergency procedures, risk assessment, accident reporting procedure welfare activities like, safe use of workplace tools, machinery, equipment etc.	Not Applicable		Project proponent confirms that job-related training will be provided to existing employees and new recruits to improve their knowledge base	No risk identified
Social - Welfare	<i>Improving/deteriorating working conditions (SW01)</i>	Not applicable	EHS and HR policy of the company	Not applicable	-	-	No action required	Not applicable		Since the project has a good EHS and HR policy and offers good working environment, there will be no	No risk identified

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										deterioration in working condition.	
<i>Community and rural welfare (indigenous people and communities) (SW02)</i>	By initiating various programs the project activity enables welfare of the rural community.	CSR policy of the company	Not applicable	-	-	No action required	Not applicable	0	PP confirms that, the project will contribute towards welfare of the rural community. Welfare activities will be organized as per requirement of the community.	No risk identified	
<i>Poverty alleviation (more people above poverty level) (SW03)</i>	By generating direct and indirect employment opportunities, the project activity contributes to the efforts of poverty alleviation.	There are no Regulations at present	Not Applicable	-	-	No action required	Not applicable	0	PP concludes that, the Poverty alleviation will occur due to providing direct and indirect employment opportunities.	No risk identified	
<i>Improving / deteriorating wealth distribution/ generation of income and assets (SW04)</i>	Not Applicable as the project activity only increases the income sources but cannot predict improving/deteriorating wealth distribution/generation of income and assets.	There are no regulations at present	Not applicable	-	-	No action required	Not applicable	0	Since the project is an equal opportunity employer, it will provide employment to all based on the need and suitability. This action will result in generation of income sources	No risk identified	
<i>Increased or / deteriorating municipal revenues (SW05)</i>	Taxes payable by the company and the Professional Taxes payable by employees improves the amount of taxes paid but cannot predict increased/deteriorating municipal revenue.		Not applicable	-	-	Not applicable	Not applicable	0	Project proponent confirms that the company has to pay tax to concern local body and the employees have to pay professional tax, which will improve the revenue of municipal corporation. Moreover, the small shops coming up in nearby areas due to this project will also contribute to the revenue of municipal corporation	No risk identified	

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<p><i>Women's empowerment (SW06)</i> <i>(human rights)</i></p>	<p>Women are not employed at the project activity as it is located in a far remote location.</p>	<p>There is no specific regulation requiring employment of women even in remote location at present</p>	<p>Not Applicable</p>	<p>-</p>	<p>-</p>	<p>Not applicable</p>	<p>Not applicable -</p>		<p>PP concludes that women are not employed as the project as project is in a remote location.</p>	<p>No risk identified</p>
<p><i>Reduced / increased traffic congestion (SW07)</i></p>	<p>Not Applicable</p>	<p>Nil</p>	<p>Not applicable</p>	<p>-</p>	<p>-</p>	<p>Not applicable</p>	<p>Not applicable</p>		<p>Due to project activity traffic may increase in the area. However, since the project is located in a remote area, it will not create traffic congestion.</p>	<p>No risk identified</p>
<p><i>Exploitation of Child labour (SW08)</i> <i>(human rights)</i></p>	<p>project does not employ child labour as it is prohibited by law</p>	<p>The Child Labour (Prohibition and Regulation) Act, 1986</p>	<p>Not applicable</p>	<p>-</p>	<p>-</p>	<p>Not applicable</p>	<p>Not applicable</p>		<p>PP confirms that the project will not employ child labour in any of the project activity</p>	<p>No risk identified</p>
<p><i>Minimum wage protection (SW09)</i> <i>(human rights)</i></p>	<p>Employees are paid wages confirming to the Minimum Wages Act.</p>	<p>The Minimum Wages Act, 1948</p>	<p>Not applicable</p>	<p>-</p>	<p>-</p>	<p>Not applicable</p>	<p>Not applicable</p>		<p>Project proponent confirms that all the employees will be paid wages and salaries confirming to the rates stipulated for that category by the Act</p>	<p>No risk identified</p>
<p><i>Abuse at work place.(with specific reference to women and people with special disabilities / challenges) (SW10)</i> <i>(human rights)</i></p>	<p>The extant laws prevent, prohibit and in case of occurrence redressal of any abuse of women, scheduled caste and tribe and differently abled employees at work</p>	<p>Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 Scheduled Castes and Scheduled Tribes (Prevention of Atrocities) Act, 1989</p>	<p>Not applicable</p>	<p>-</p>	<p>-</p>	<p>Not applicable</p>	<p>Not applicable</p>		<p>Project proponent confirms that while women are not employed in the project location, employees belonging to SC and ST and differently abled employees will be treated like any other employees.</p>	<p>No risk identified</p>

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			The Rights of Persons with Disability Act, 2016									
	<i>Other social welfare issues (SW11)</i>	Not applicable	Not applicable	Not applicable	-	-	Not applicable	Not applicable		Not applicable	No risk identified	
	<i>Avoidance of human trafficking and forced labour (human rights) (SW12)</i>	IPC prohibits recruiting, transporting, harboring, transferring a person for exploitation and slavery,	Indian Penal Code, 1860	Not applicable	-	-	Not applicable	Not applicable		Project proponent confirms that the project does not employ or keep any person in employment against their will	No risk identified	
	<i>Avoidance of forced eviction and/or partial physical or economic displacement of IPLCs (human rights) (CW13)</i>	Project activity is located in a non-forest, non-agricultural and non-human settlement area.	The Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013	Not applicable	-	-	Not applicable	Not applicable		The project is located in non-forest, non-agricultural and non-human settlement area and hence the question of forced eviction or displacement of people does not arise	No risk identified	
	<i>Provisions of resettlement and human settlement displacement (human rights) (CW14)</i>	Project activity is located in a non-human settlement area without necessitating any displacement.	The Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013	Not applicable	-	-	Not applicable	Not applicable		As the project is located in a non-human settlement area, the question of resettlement of people does not arise	No risk identified	
Net Score:			+5									
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 society.									

Appendix 7. United Nations Sustainable Development Goals (SDG)

UN-level SDGs	UN-level Target	Declared Country-level SDG	Defining Project-level SDGs				GCC Project Verifier's Conclusion (To be included in Project Verification Report only)	
			Project-level SDGs	Project-level Targets/Actions	Contribution of Project-level Actions to SDG Targets	Monitoring	Verification Process	Are Goal/Targets Likely to be Achieved ?
<p>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 of guidance.	Define project-level targets/actions in line with the 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	NA	NA	NA	NA	NA	NA	NA	NA
Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture	NA	NA	NA	NA	NA	NA	NA	NA
Goal 3. Ensure healthy lives and promote well-being for all at all ages	3.8 Achieve universal	Yes	Achieve health coverage, including financial risk	Ensure health care services local stakeholders and employees by	Organizing Health camps, other health related activities	Monitored through welfare activity records	The project owner will organize medical camps including distribution of	Yes

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	<p>health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and //vaccines for all</p> <p>Indicators: 3.8.1</p>		<p>protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for the local stakeholders and employees.</p>	<p>organising/conducting health related activities like medical camp. Clinical camp, distribution of medicines and vaccines, etc.</p> <p>Target is to organise/conduct atleast one health related activity in four years</p>	<p>periodically for stakeholders to increase efficiency of health services</p> <p>or</p> <p>Providing group health insurance to the employees</p> <p>Above actions result in a direct positive effect that contributes to achieving the defined project-level SDG targets</p>	<p>Number of health related activities conducted for stakeholders per four years</p> <p>Records of group health insurance, health camps conducted and EHS training programs</p>	<p>medicines and vaccines for the local people. The number of health camps conducted, vaccines distributed, and Medicine distributed will be monitored once in four years and should be verified during ER verification stage.</p> <p>The parameter being monitored in the monitoring plan is found adequate. This has been discussed under section D.3.7 of this report.</p>	
<p>Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</p>	<p>4.4</p> <p>By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship</p> <p>Indicators: 4.4.1</p>	Yes	<p>Substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship, from local stakeholders</p>	<p>To train the, local youth and adults with relevant skills through trainings during the operational phases of the project for getting decent jobs and provide entrepreneurship opportunities.</p> <p>Target is to provide training to atleast three individuals over the crediting period.</p>	<p>Empowering local stakeholders with digital literacy and training on relevant technologies. This action contributes to achieving the defined project level SDG targets</p>	<p>Monitored through records of trainings and workshops conducted,</p> <p>Number of persons trained over the crediting period.</p>	<p>The project owner will conduct training on relevant technologies to empower local stakeholders with digital literacy. Records of trainings and workshops conducted should be verified during the ER Verification stage along with the number of people trained over the crediting period.</p> <p>The parameter being monitored in the monitoring plan is found adequate. This has been discussed under</p>	Yes

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							section D.3.7 of this report.	
Goal 5. Achieve gender equality and empower all women and girls	NA	NA	NA	NA	NA	NA	NA	NA
Goal 6. Ensure availability and sustainable management of water and sanitation for all	NA	NA	NA	NA	NA	NA	NA	NA
Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	<p>7.2 "By 2030, Increase substantially the share of renewable energy in the global energy mix"</p> <p>Indicator 7.2.1.</p>	Yes	To increase the share of renewable energy in the National energy mix.	Targeted net electricity MWh supplied to the grid by the project activity in a year throughout the crediting period.	<p>The solar Power project contributes directly to achieving the</p> <p>SDG target because the project activity delivers renewable energy, which would otherwise be generated by fossil fuel dominated grid connect power generating plants.</p>	<p>The net electricity supplied to the grid by the project activity is continuously monitored through energy meter and recorded in JMRs on monthly basis.</p> <p>Amount of energy supplied to Grid per year</p>	<p>The project activity is a bundled solar power project with an installed capacity of 87 MW and it generates electricity of 133,042 MWh per year. The project activity was commissioned on 11/02/2016 (earliest start date of operation amongst the project activities involved in the bundle) and it continues to provide clean energy, thereby increasing the renewable energy share in the total final energy consumption thereby complying with the SDG target 7.2. The same was duly verified by the verification team from commission reports/8/ and electricity generation records /11/.</p> <p>The generated</p>	Yes

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							power is continuously monitored by the energy meters installed at the substation and details of the same are included in the PSF/1/ and found to be acceptable.	
Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	<p>8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment</p> <p>Indicators: 8.8.1</p>	Yes	Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, and those in precarious employment in the project activity.	<p>Ensure to protect labour rights and have no occupational injuries.</p> <p>To achieve “0” (zero) major injuries</p>	<p>By implementing strict EHS policy to protect labour rights and through safety trainings, and display of safety posters/guidelines at project sites.</p> <p>The above actions result in direct positive effects that contribute to project-level SDG</p>	<p>Monitored through EHS/safety records maintained</p> <p>Fatal and non-fatal occupational injuries per year</p> <p>or</p> <p>Number of major accidents/incidents per year</p>	<p>PO will ensure to protect labour rights by implementing strict EHS policy and through safety trainings, and display of safety posters/guidelines at project sites. The number of major accidents/incidents will be monitored through EHS records which should be verified during ER Verification stage.</p> <p>The parameter being monitored in the monitoring plan is found adequate. This has been discussed under section D.3.7 of this report.</p>	Yes
Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	<p>9.2</p> <p>Promote inclusive and sustainable industrialization and, by</p>	Yes	Promote inclusive and sustainable industrialization and significantly raise industry's	Establishment of Project activity promotes sustainability (use of renewable energy) and also creates	By providing employment opportunities to the eligible candidates for operations of the renewable	Monitored through employment records maintained	The project will provide employment opportunities to at least 10 eligible candidates for operations of the renewable	Yes

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	2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries Indicators: 9.2.2		share of employment by the project activity	employment opportunities with target of 10 persons employed per year.	energy related project activity. The above actions result in direct positive effects that contribute to project-level SDG.	Number of persons employed per year.	energy related project activity. This can be verified from the employment records maintained on site. The parameter being monitored in the monitoring plan is found adequate. This has been discussed under section D.3.7 of this report.	
Goal 10. Reduce inequality within and among countries	NA	NA	NA	NA	NA	NA	NA	NA
Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	NA	NA	NA	NA	NA	NA	NA	NA
Goal 12. Ensure sustainable consumption and production patterns	NA	NA	NA	NA	NA	NA	NA	NA
Goal 13. Take urgent action to combat climate change and its impacts	13.2 Integrate climate change measures into national policies, strategies and planning	Yes	To reduce GHG emissions	Reduce 123,793(tCO ₂ /year) per annum through electricity generation from renewable energy.	The project activity utilises the renewable source of energy to produce electricity that would be produced fossil-fuel based plants, thus the project leads to reduction in GHG emissions will combat climate change and contribute to positive effect on the project-level SDG	Electricity produced by the renewable generating unit in records multiplied by an emission factor as recorded in ER sheet or this PSF Number of emission reductions per year	The project is estimated to achieve GHG emission reduction of 123,793 tCO ₂ e/year, thereby meeting the SDG target 13.2. The generated power is continuously monitored by the energy meters installed at the substation and details of the same are included in the PSF/1/ and found to be acceptable.	Yes

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Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development	NA	NA	NA	NA	NA	NA	NA	NA
Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	NA	NA	NA	NA	NA	NA	NA	NA
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	NA	NA	NA	NA	NA	NA	NA	NA
Goal 17. Strengthen the means of implementation and revitalize the global partnership for sustainable development	NA	NA	NA	NA	NA	NA	NA	NA
SUMMARY					Targeted		Likely to be Achieved	
Total Number of SDGs					+6		+6	
Certification label (Bronze, Silver, Gold, Platinum, or Diamond) for the ACCs as defined in the PSF					Diamond		Diamond	

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 CORSIA¹⁰;
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

¹⁰See 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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