

**Project  
Verification  
Report**

2021

<b>COVER PAGE</b>	
<b>Project Verification Report Form (VR)</b>	
<b>BASIC INFORMATION</b>	
<b>Name of approved UCR Project Verifier / Reference No.</b>	Enviance Services Private Limited
<b>Type of Accreditation</b>	<input type="checkbox"/> CDM or other GHG Accreditation <input checked="" type="checkbox"/> ISO 14065 Accreditation
<b>Approved UCR Scopes and GHG Sectoral scopes for Project Verification</b>	01 Energy industries (Renewable/Non-Renewable Sources)
<b>Validity of UCR approval of Verifier</b>	30/09/2027
<b>Completion date of this VR</b>	03/09/2024
<b>Title of the project activity</b>	135 MW solar Power Plants in Karnataka M/s Asian Fab Tec Limited.
<b>Project reference no.</b> (as provided by UCR Program)	436
<b>Name of Entity requesting verification service</b> (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	UCR ID – 436 Viviid Emissions Reductions Universal Pvt. Ltd. Name: Lokesh Jain Email ID – lokesh.jain@viviidgreen.com
<b>Contact details of the representative of the Entity, requesting verification service</b> (Focal Point assigned for all communications)	UCR ID – 436 Viviid Emissions Reductions Universal Pvt. Ltd. Name: Lokesh Jain Email ID – lokesh.jain@viviidgreen.com
<b>Country where project is located</b>	India

<p><b>Applied methodologies</b> (approved methodologies by UCR Standard used)</p>	<p>ACM0002: Grid-connected electricity generation from renewable sources version 21.0</p>
<p><b>GHG Sectoral scopes linked to the applied methodologies</b></p>	<p>01 Energy industries (Renewable/Non-Renewable Sources)</p>
<p><b>Project Verification Criteria:</b> Mandatory requirements to be assessed</p>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> UCR Standard</li> <li><input checked="" type="checkbox"/> Applicable Approved Methodology</li> <li><input checked="" type="checkbox"/> Applicable Legal requirements /rules of host country</li> <li><input checked="" type="checkbox"/> Eligibility of the Project Type</li> <li><input checked="" type="checkbox"/> Start date of the Project activity</li> <li><input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology</li> <li><input checked="" type="checkbox"/> Credible Baseline</li> <li><input checked="" type="checkbox"/> Do No Harm Test</li> <li><input checked="" type="checkbox"/> Emission Reduction calculations</li> <li><input checked="" type="checkbox"/> Monitoring Report</li> <li><input checked="" type="checkbox"/> No GHG Double Counting</li> <li><input type="checkbox"/> Others (please mention below)</li> </ul>
<p><b>Project Verification Criteria:</b> Optional requirements to be assessed</p>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria</li> <li><input checked="" type="checkbox"/> Social Safeguards Standard do-no-harm criteria</li> </ul>
<p><b>Project Verifier's Confirmation:</b> The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:</p>	<p>The UCR Project Verifier <i>Enviance Services Private Limited</i>, certifies the following with respect to the UCR Project Activity [135 MW Solar Power Plants in</p>

	<p>Karnataka M/s Asian Fab Tec Limited].</p> <p><input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the Project Concept Note version 2 (dated 20/07/2024) including the applicability of the approved methodology [ACM0002: <i>Grid-connected electricity generation from renewable sources version 21.0</i>] and meets the methodology applicability conditions and has achieved the estimated GHG emission reductions, complies with the monitoring methodology and has calculated emission reductions estimates correctly and conservatively.</p> <p><input checked="" type="checkbox"/> The Project Activity is likely to generate GHG emission reductions amounting to the estimated [211,361] tCO<sub>2e</sub>, as indicated in the PCN version 2, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3.</p> <p><input checked="" type="checkbox"/> The Project Activity is not likely to cause any net-harm to the environment and/or society</p> <p><input checked="" type="checkbox"/> The Project Activity complies with all the applicable UCR rules<sup>1</sup></p>
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	and therefore recommends UCR Program to register the Project activity with above mentioned labels.
<b>Project Verification Report, reference number and date of approval</b>	Verification Report UCR Reference number: 436 Date of approval 04/09/2024
<b>Name of the authorised personnel of UCR Project Verifier and his/her signature with date</b>	Vidhya Murali Krishna  Quality Manager Date: 04/09/2024

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# PROJECT VERIFICATION REPORT

## Executive summary

The project activity is titled- "135 MW solar Power Plants in Karnataka M/s Asian Fab Tec Limited". The project is spread across different villages in Karnataka state of India.

Company's Name	Plant Capacity (MW)	Commissioning Date	Location	Geo co-ordinates of Location
M/s Asian Fab Tec Limited	20	24/10/2019	Kajimittahalli, Kyasamballi & Kogilahalli Village, KGF Taluk, Kolar District, Karnataka State, India	12.959564° N 78.374048° E
	20	24/10/2019	Kajimittahalli, Kyasamballi & Kogilahalli Village, Bangarpete Taluk, Kolar District, Karnataka State, India	12.959564° N 78.374048° E
	20	31/10/2019	Someshwara Village, Gudibande Taluk, Chikkaballapura District, Karnataka State, India	13.513536° N 78.099834° E
	20	28/10/2019	Kavalahalli Village, Doddaballapura Taluk, Bengaluru Rural District, Karnataka State, India	12.101068° N 77.3296° E
	10	18/10/2019	Saluparahalli Village, Arasikere Taluk, Hassan District, Karnataka State, India	13.272972° N 76.340938° E
	05	25/10/2019	Nallarallahalli & Bathalapalli Village, Chintamani Taluk, Chikkaballapura District, Karnataka state, India	13.513480° N 78.100278° E
	20	17/11/2020	Budagatti Village, Haveri Taluk, Haveri District, Karnataka State	14.822725° N 75.498980° E
	20	17/11/2020	Gundoor Village, Savanur Taluk, Haveri District, Karnataka state, India	14.989319° N 75.316861° E

The Project Activity is a greenfield solar project and the electricity generated by the project is exported to the national grid of India. According to the power purchase agreements/7/, the electricity is being exported to the Indian grid [Karnataka Power Transmission Corporation, KPTCL] which is then purchased by Bangalore Electricity Supply Company Ltd (BESCOM). The power produced by the 20MW, 20MW, 20MW, 20MW, 10MW, 5MW, 20MW & 20MW is evacuated at Kyasamballi(66/11KV),Somenahalli(66/11KV), Tubagere(66/11KV), Belagumba (110/11 KV), Iragampalli (66/11KV ) Savanur Substation 66/11 KV Located at Karnataka State, India.

The project activity displaces an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid. The estimated lifetime of the project activity is considered as 25 years for solar technology. In the Pre- project scenario the entire electricity, consumed by the customers or delivered to the grid by, would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources.

The main components of project activity are solar PV modules, inverter, set-up transformer, module mounting system and power conditioning units. The generation of power from solar photovoltaics is a clean technology as there is no fossil fuel-fired or no GHG gases are emitted during the process. Thus, project activity leads to a reduction the GHG emissions as it displaces power from fossil fuel-based electricity generation in the regional grid. Since the project activity generates electricity through solar energy, it will not cause any negative impact on the environment and thereby contributes to climate change mitigation efforts. The project activity also contributes to SDG goals 4,5,7,8 and 13.

The crediting period of the project activity is 10 years in which total estimated electricity generation is 23,48,460.86 MWh and the total GHG emission reduction estimated is 2,113,615 tCO<sub>2</sub>e. Also, the annual average estimated emission reductions from project activity are 211,361 tCO<sub>2</sub>e with the average plant load factor of 20.560%. During the monitoring period 470,579 tCO<sub>2</sub>e of emission reduction has been reported. The annual average net electricity generation and annual average GHG emission reductions are with application of degradation factor of 0.70% from second year.

### **Scope of Verification**

The scope of the services for the project is to perform Project Verification of concerned Project Activity. The scope of verification is to assess the claims and assumptions made in the Project Concept Note (PCN) and Monitoring Report (MR) against the UCR criteria, including but not limited to, UCR program verification guidance document, UCR Standard, UCR Program Manual, and related rules and guidelines established under Program process.

### **Verification Process and Methodology**

The verification process was undertaken by a competent verification team and involved the following,

- Desk review of documents and evidence submitted in context of the reference rules and guidelines issued by UCR,
- Undertaking/conducting site visit/remote audit, interview or interactions with the representative of the project owners/representatives,
- Reporting audit findings with respect to clarifications and non-conformities and the closure of the findings, as appropriate and preparing a draft verification opinion based on the auditing findings and conclusions
- Finalization of the verification opinion (this report)

### **Desk/Document review**

A detailed desk review of the PCN, MR, Methodology and all other associated documentation and references took place in advance of the site visit, and additional documents that were not available for the desk review were requested for review during the site visit. Additional information can be required to complete the verification, which may be obtained from other public and reliable sources or through telephone and face to face interviews with key stakeholders (including the project developers and where necessary, government and NGO representatives in the host country).

A list of all documents reviewed or referred to in the course of this verification is included in Appendix 3 below.

### **Follow up interviews/site visit**

The verifier conducted remote audit and had requested for site photographs, short videos. A remote interview was conducted with the project owners and stakeholders.

### **Conclusion**

Based on the work performed, the verifier concludes that the “135 MW Solar Power Plants in Karnataka M/s Asian Fab Tec Limited”. The information and data presented in the MR version 2 dated 20/07/2024 is in line with the Project Concept Note Version 2 dated 20/07/2024 and meets all relevant requirements of the UCR for UCR project activities. The UCR project activity correctly applies the methodology “ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/” leading to result in real, measurable and long-term emission reductions achieved for the current monitoring period.

For the current monitoring period, verified emission reductions achieved by the project activity were as below;

Start date of monitoring period	01/11/2019
End date of monitoring period	31/12/2023
Emission reductions achieved	470,579 tCO <sub>2</sub> eq

## Project Verification team, technical reviewer and approver

### Project Verification team

No.	Role	Last name	First name	Affiliation (e.g. name of central or other office of UCR Project Verifier or outsourced entity)	Involvement in		
					Document review	Off-Site inspection	Interviews
1.	Team Leader/ Technical Expert	Kumar	Pankaj	Enviance Services Private Limited	Yes	Yes	Yes
2.	V-V Trainee / Technical Expert in Trainee	Jain	Vipul	Enviance Services Private Limited	Yes	Yes	Yes
3.	V-V Trainee / Technical Expert in Trainee	Yadav	Ritika	Enviance Services Private Limited	Yes	Yes	Yes

### 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 UCR Project Verifier or outsourced entity)
1.	Technical reviewer	Internal	-	Vijayanand	Contractual resource

## Means of Project Verification

### Desk/document review

A detailed desk review of the PCN, MR, methodology and all other associated documentation and references took place in advance of the remote audit, and additional documents that were not

available for the desk review were requested for review during the remote audit. Additional information can be required to complete the verification, which may be obtained from other public and reliable sources or through telephone and face-to face interviews with key stakeholders (including the project developers and where necessary, Government and NGO representatives in the host country).

A list of all documents reviewed or referred to in the course of this verification is included in Appendix 3 below.

### Off-site inspection

<b>Date of off-site inspection:</b> 26/06/2024			
<b>No.</b>	<b>Activity performed Off-Site</b>	<b>Site location</b>	<b>Date</b>
1.	<ul style="list-style-type: none"> <li>a) An assessment of the implementation and operation of the project activity as per the PCN and UCR requirements</li> <li>b) Verification of the project design, as documented is sound and reasonable, and meets the identified criteria of UCR Standard Requirements and associated guidance</li> <li>c) Assessment to conformance with the certification criteria as laid out in the UCR Standards;</li> <li>d) Evaluation of the conformance with the certification scope, including the GHG project and baseline scenarios, additionality; GHG sources, sinks, and reservoirs; and the physical infrastructure, activities, technologies and processes of the GHG project to the requirements of the UCR;</li> <li>e) Evaluation of the calculation of GHG emissions, including the correctness and transparency of formulae and factors used; assumptions related to estimating GHG emission reductions; and uncertainties; and determination whether the project could reasonably be expected to achieve the estimated GHG reduction/removals.</li> <li>f) Review of information flows for generating, aggregating and reporting of the parameters to be monitored</li> <li>g) To confirm that the operational and data collection procedures can be implemented in accordance with the Monitoring Plan</li> <li>h) Cross-check of information provided in the submitted documents and data from other sources available at site</li> <li>i) Review of calculations and assumptions made in determining the GHG data and estimated ERs, and an identification of QA/QC procedures in place to prevent, or identify and correct, any errors or omissions in the reported monitoring parameters</li> </ul>	<ul style="list-style-type: none"> <li>1) 20 MW - Kajimittahalli, Kyasamballi &amp; Kogilahalli Village, KGF Taluk, Kolar District, Karnataka State, India</li> <li>2) 20 MW - Kajimittahalli, Kyasamballi &amp; Kogilahalli Village, Bangarpete Taluk, Kolar District, Karnataka State, India</li> <li>3) 20 MW - Someshwara Village, Gudibande Taluk, Chikkaballapura District Karnataka State, India</li> <li>4) 20 MW- Kavalahalli Village, Doddaballapura Taluk, Bengaluru Rural District, Karnataka State, India</li> <li>5) 10 MW - Saluparahalli Village, Arasikere Taluk, Hassan District, Karnataka</li> </ul>	26/06/2024

	<p>j) Interviews of local Stakeholders</p>	<p>State, India</p> <p>6) 5 MW - Nallarallahalli &amp; Bathalapalli Village, Chintamani Taluk, Chikkaballapura District, Karnataka state, India</p> <p>7) 20 MW - Budagatti Village, Haveri Taluk, Haveri District, Karnataka State, India</p> <p>8) 20 MW - Gundoor Village, Savanur Taluk, Haveri District, Karnataka State, India</p>	
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## Interviews

No.	Interview			Date	subject
	Last name	First name	Affiliation		
1.	Prakash	K.V.	M/s Asian Fab Tec Limited	26/06/2024	Project Implementation, Monitoring plan, Project Boundary, Eligibility criteria, Host country requirements, Emission reduction calculations Project implementation, monitoring, Local stakeholder consultation
2.		Shivraj			
3.	Reddy	M.Kirankumar	Site manager		
4.	Mishra	Priya	Vivid emissions reductions universal private Ltd.		
5.	Karegoudra	Sharanagouda	Local stakeholders		
6.	Kadli	Prakash			
7.	Sankanagoudra	Vishwas Puttanagowda			
8.	Ganiger	Arun Ningappa			

## Sampling approach

Not applicable.

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

Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
<b>Green House Gas (GHG)</b>			
Identification and Eligibility of project type	-	-	-
General description of project activity	04	04	-
Application and selection of methodologies and standardized baselines	-	-	-
- Application of methodologies and standardized baselines	01	-	-
- Deviation from methodology and/or methodological tool	-	-	-
- Clarification on applicability of methodology, tool and/or standardized baseline	-	-	-
- Project boundary, sources and GHGs	-	-	-
- Baseline scenario	-	03	-
- Estimation of emission reductions or net anthropogenic removals	01	-	-
- Monitoring Report	03	03	-
Start date, crediting period and duration	-	-	-
Environmental impacts	-	-	-
Project Owner- Identification and communication	-	-	-
Others	-	-	-
<b>Total</b>	<b>09</b>	<b>10</b>	<b>-</b>

## Project Verification findings

## Identification and eligibility of project type

<b>Means of Project Verification</b>	<p>The project has an installation of a 135 MW solar capacity and hence it qualifies as a large-scale project. This is confirmed based on the commissioning certificates/6/ and technical specifications.</p> <p>Since the project is a large-scale project, it has applied approved CDM large scale methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/.</p> <p>The Project owner has used valid MR form available at the UCR website for the preparation of MR for the current project activity. The project has prepared MR in line with UCR guidance and requirements.</p>
<b>Findings</b>	No findings raised
<b>Conclusion</b>	<p>The UCR-approved format is used for description and the project meets the requirement of the UCR verification standard and UCR project standard/12/. UCR project communication agreement /1/ was submitted to the verifier and the same has been verified. Methodology referenced and applied appropriately describing the project type. The eligibility of the project aggregator is verified using the UCR communication agreement, project correctly applies the verification standard, UCR project standard, and UCR regulations/12/. The project activity is overall meeting the requirements of the UCR Verification standard and UCR project standard.</p>

## General description of project activity

<p><b>Means of Project Verification</b></p>	<p>The project activity involves the operation of a 135 MW of large-scale solar power project and its commissioning date and power evacuation at the substation were verified through the commissioning certificate/6/ of the project. The power purchase agreement/7/ confirms the companies/entities involved in the agreement for purchase of electricity from the 135MW (20 MW + 20 MW + 20 MW + 20 MW + 10 MW + 05 MW + 20 MW and 20 MW) project.</p> <p>Assessment team conducted documentation review of the PCN against the UCR program verification standard version 2.0 and UCR CoU Standard (project eligibility criteria) version 7.0 and the UCR-PCN-FORM Version 1.0/12/.</p> <p>By checking the supporting documents, it is confirmed that the project is a greenfield solar power project, the project is spread across different villages in Karnataka state of India. The approximate geo-coordinates of the project locations are mentioned below.</p> <table border="1" data-bbox="603 840 1437 1422"> <thead> <tr> <th>Plant Capacity (MW)</th> <th>Geo co-ordinates of Location</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>12.959564° N 78.374048° E</td> </tr> <tr> <td>20</td> <td>12.959564° N 78.374048° E</td> </tr> <tr> <td>20</td> <td>13.513536° N 78.099834° E</td> </tr> <tr> <td>20</td> <td>12.101068° N 77.3296° E</td> </tr> <tr> <td>10</td> <td>13.272972° N 76.340938° E</td> </tr> <tr> <td>05</td> <td>13.513480° N 78.100278° E</td> </tr> <tr> <td>20</td> <td>14.822725° N 75.498980° E</td> </tr> <tr> <td>20</td> <td>14.989319° N 75.316861° E</td> </tr> </tbody> </table> <p>Assessment team performed an offsite inspection of project and confirmed that the location described in the PCN are accurate.</p> <p>The Project is a solar power project, that utilize solar energy to generate zero carbon emission electricity which is mainly dominated by fossil fuel power output. The project includes integrated power transmission mechanism, photovoltaic (PV) modules, inverters, transformers, other relay &amp; protection systems, microprocessor based fully automatic control system with user friendly operation and central monitoring system. Quality, Safety and Health plan for construction, installation, commissioning and Operation &amp; Maintenance.</p>	Plant Capacity (MW)	Geo co-ordinates of Location	20	12.959564° N 78.374048° E	20	12.959564° N 78.374048° E	20	13.513536° N 78.099834° E	20	12.101068° N 77.3296° E	10	13.272972° N 76.340938° E	05	13.513480° N 78.100278° E	20	14.822725° N 75.498980° E	20	14.989319° N 75.316861° E
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<p><b>Findings</b></p>	<p>CL 02, CL 04, CL 05, CL 07, CAR 01, CAR 02, CAR 03 and CAR 04 were raised and closed successfully. More information presented appendix below.</p>																		
<p><b>Conclusion</b></p>	<p>The description of the project activity is verified to be true based on the review of PCN/2/, MR/3/, Commissioning Certificate/6/ and power purchase agreement/7/.</p>																		

## Application and selection of methodologies and standardized baselines

### (.a.i) Application of methodology and standardized baselines

<b>Means of Project Verification</b>	The project has taken the reference of CDM methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/. CDM website is referred to check the latest version of the methodology. For the applicability mentioned in the PCN/2/ and MR/3/, technical Specification, and commissioning certificate/6/.
<b>Findings</b>	No findings raised.
<b>Conclusion</b>	The methodology applied is appropriately meeting the requirements of UCR and its standardized baseline. The methodology version is correct and valid. The referenced methodology is applicable to project activity.

### (.a.ii) Clarification on applicability of methodology, tool and/or standardized baseline

<b>Means of Project Verification</b>	The documents reviewed are CDM methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/, UCR Program standard, and UCR Verification Standard/12/.
<b>Findings</b>	CL 03 was raised and closed successfully. More information presented appendix below.
<b>Conclusion</b>	The verification team confirms that all the applicability criteria set by the applied CDM methodology/13/ and its eligible tools are met. The relevant information against those criteria is also included in the PCN/2/ and MR Ver.2/3/. The selected CDM methodology for the project activity is applicable.

### (.a.iii) Project boundary, sources and GHGs

<b>Means of Project Verification</b>	Project owner has considered project boundary as per applicable methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/, "The spatial extent of the project boundary includes the project power plant/unit and all power plants/units connected physically to the electricity system that the CDM project power plant is connected to." Review of PCN/2/ and MR/3/ confirms that project sites and Indian electricity grid system is considered as a project boundary which is appropriate.
<b>Findings</b>	No findings raised
<b>Conclusion</b>	The project boundary is correctly defined in the PCN/2/ and MR/3/. GHG sources are correctly identified and reported. The project meets the requirements of UCR project standard, Verification standard and methodology requirements for a boundary, GHG sources.

### (.a.iv) Baseline scenario

<b>Means of Project Verification</b>	As per the applied methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/ the baseline scenario is as following: The baseline scenario is electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants. Remote audit conducted and document review showed that in absence of the project activity, the generated electricity would have been supplied by the Indian grid which is dominated by fossil fuel fired
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	plants.
<b>Findings</b>	CAR 05, CAR 06 and CAR 10 were raised and closed successfully. More information presented appendix below.
<b>Conclusion</b>	<p>The approved baseline methodology has been correctly applied to identify a realistic and credible baseline scenario, and the identified baseline scenario most reasonably represents what would occur in the absence of the proposed UCR project activity.</p> <p>All the assumption and data used by the project participants are listed in the PCN and/or supporting documents. All documentation relevant for establishing the baseline scenario are correctly quoted and interpreted in the PCN. Assumptions and data used in the identification of the baseline scenario are justified appropriately, supported by evidence and can be deemed reasonable.</p>

### (.a.v) Estimation of emission reductions or net anthropogenic removal

<b>Means of Project Verification</b>	<p>The project verification team checked whether the equations and parameters used to calculate GHG emission reductions or net anthropogenic GHG removals for PCN/2/ and MR /3/ are in accordance with applied methodology. Project verification team checked section B.5 and C.5.1 of the PCN/2/ &amp; MR/3/ respectively to confirm whether all formulae to calculate baseline emissions, project emission and leakage have been applied in line with the underlying methodology.</p> <p>The emission reduction calculation has been carried out as per the CDM methodology ACM0002, Version 21.0/13/.</p> $BE_y = EG_{BLY} \times EF_{CO_2, y}$ <p>Where, BE<sub>y</sub> = Baseline Emissions in year y; tCO<sub>2</sub>  EG<sub>BLY</sub> = Quantity of net electricity displaced as a result of the implementation of the CDM project activity in year y (MWh)  EF<sub>CO<sub>2</sub>, y</sub> = Combined margin CO<sub>2</sub> emission factor for grid connected power generation in year y.</p> <p>A "grid emission factor" refers to a CO<sub>2</sub> emission factor (tCO<sub>2</sub>/MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.9 tCO<sub>2</sub>/MWh for the 2013-2020 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program/11/. Also, for the vintage 2021, the combined margin emission factor calculated from CEA database in India results into higher emission than the default value. Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach.<sup>2</sup></p> <p><b>Project emissions:</b> As per paragraph 35 of the applied methodology, For most renewable energy project activities,  PE<sub>y</sub> = 0.  Since solar power is a GHG emission free source of energy project emission considered as Zero for the project activity.</p> <p><b>Leakage Emissions:</b> As per the paragraph 61 of the applied methodology ACM0002 Version 21.0/13/, there are no emissions related to leakage in this project.  LE<sub>y</sub>=0.</p> <p><b>Emission reductions:</b> As per Paragraph 62, equation 17 of the applied methodology,</p>
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<sup>2</sup> [https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com/Documents/UCRStandardAug2024updatedVer7\\_020824191534797526.pdf](https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com/Documents/UCRStandardAug2024updatedVer7_020824191534797526.pdf)

emission reductions are calculated as follows

$$ER_y = BE_y - PE_y$$

Where:  $ER_y$  = Emission reductions in year  $y$  (tCO<sub>2</sub>)

$BE_y$  = Baseline Emissions in year  $y$  (t CO<sub>2</sub>)

$PE_y$  = Project emissions in year  $y$  (t CO<sub>2</sub>)

$LE_y$  = Leakage emissions in year  $y$  (t CO<sub>2</sub>)

$$ER_y = BE_y - PE_y$$

$$ER_y = (EG_{\text{facility}, y} * EF_{\text{grid, CM}, y}) - PE_y$$

$$ER_y = (2,34,846.09 * 0.9) - 0$$

$$ER_y = 211,361 \text{ (tCO}_2\text{e/year)}$$

Therefore,  $ER_y = BE_y$

The start date of the Project is from 24/10/2019 which is the earliest Commissioning date. For the ease of the calculation, duration of the crediting period is started from 01/11/2019 to 31/12/2029.

Year	Total generation	Baseline Emissions	Project Emissions	Leakage	Emission Reductions
	MWh	(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)	(tCO <sub>2</sub> e)
Year 1	2,42,339.00	2,18,105	0	0	2,18,105
Year 2	2,40,642.63	2,16,578	0	0	2,16,578
Year 3	2,38,958.13	2,15,062	0	0	2,15,062
Year 4	2,37,285.42	2,13,557	0	0	2,13,557
Year 5	2,35,624.42	2,12,062	0	0	2,12,062
Year 6	2,33,975.05	2,10,578	0	0	2,10,578
Year 7	2,32,337.23	2,09,104	0	0	2,09,104
Year 8	2,30,710.87	2,07,640	0	0	2,07,640
Year 9	2,29,095.89	2,06,186	0	0	2,06,186
Year 10	2,27,492.22	2,04,743	0	0	2,04,743
<b>Total Emission reduction</b>	<b>23,48,460.86</b>	<b>21,13,615</b>	<b>0</b>	<b>0</b>	<b>21,13,615</b>
Annual Average ER	2,34,846.09	2,11,361	0	0	2,11,361

The actual emission reduction achieved during the first CoU's period as per the Project Activity:

Emission reductions for Project Activity 1:

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility}, y} * EF_{\text{grid, CM}, y}) - PE_y$$

$$ER_y = (64,789.51 * 0.9) - 0$$

$$ER_y = 58,310 \text{ (tCO}_2\text{e/year)}$$

Emission reductions for Project Activity 2:

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility}, y} * EF_{\text{grid, CM}, y}) - PE_y$$

$$ER_y = (1.06,562.48 * 0.9) - 0$$

$$ER_y = (95,906 \text{ tCO}_2\text{e/year})$$

Emission reductions for Project Activity 3:

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility, y}} * EF_{\text{grid, CM, y}}) - PE_y$$

$$ER_y = (68,845.54 * 0.9) - 0$$

$$ER_y = (61,960 \text{ tCO}_2\text{e/year})$$

Emission reductions for Project Activity 4:

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility, y}} * EF_{\text{grid, CM, y}}) - PE_y$$

$$ER_y = (1,02,963.74 * 0.9) - 0$$

$$ER_y = (92,667 \text{ tCO}_2\text{e/year})$$

Emission reductions for Project Activity 5:

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility, y}} * EF_{\text{grid, CM, y}}) - PE_y$$

$$ER_y = (34,177.6 * 0.9) - 0$$

$$ER_y = (30,759 \text{ tCO}_2\text{e/year})$$

Emission reductions for Project Activity 6:

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility, y}} * EF_{\text{grid, CM, y}}) - PE_y$$

$$ER_y = (38,418.28 * 0.9) - 0$$

$$ER_y = (34,576 \text{ tCO}_2\text{e/year})$$

Emission reductions for Project Activity 7:

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility, y}} * EF_{\text{grid, CM, y}}) - PE_y$$

$$ER_y = (35,652.9 * 0.9) - 0$$

$$ER_y = (32,087 \text{ tCO}_2\text{e/year})$$

Emission reductions for Project Activity 8:

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility, y}} * EF_{\text{grid, CM, y}}) - PE_y$$

$$ER_y = (71,458.05 * 0.9) - 0$$

$$ER_y = (64,312 \text{ tCO}_2\text{e/year})$$

**Emission reduction for entire project activity:**

$$ER_y = BE_y - PE_y$$

$$= (EG_{\text{facility, y}} * EF_{\text{grid, CM, y}}) - PE_y$$

$$ER_y = (5,22,868.102 * 0.9) - 0$$

$$ER_y = (4,70,579 \text{ tCO}_2\text{e/year})$$

**Emission Reduction Per Monitoring Year:**

Vintage Year	Net Generation in MWh	Grid Emission Factor	Emission Reduction(tCO <sub>2</sub> )
01/11/2019 to 31/12/2019	4,556.277	0.9	4,100.0
01/01/2020 to 31/12/2020	97,790.240	0.9	88,011.0
01/01/2021 to 31/12/2021	1,04,870.318	0.9	94,383.0

	01/01/2022 to 31/12/2022	1,42,247.545	0.9	1,28,022.0
	01/01/2023 to 31/12/2023	1,73,403.722	0.9	1,56,063.0
	<b>Total</b>	<b>5,22,868.102</b>	<b>0.9</b>	<b>4,70,579.0</b>
<b>Findings</b>	CL 08 was raised and closed successfully. More information presented appendix below.			
<b>Conclusion</b>	<p>In summary, the calculation of emission reductions was correctly demonstrated by the PP according to the methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/</p> <p>It is confirmed by the assessment team that:</p> <p>(a) All assumptions made for estimating GHG are listed in the PCN; (b) All documentation used by the project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PCN (c) All values used in the PCN including GWPs are considered reasonable in the context of the proposed UCR project activity; (d) The methodologies and, where applicable, the standardized baselines and the other methodological regulatory documents have been applied correctly to calculate baseline, project and leakage GHG emissions, as well as GHG emission reductions; (e) All estimates of the baseline GHG emissions can be replicated using the data and parameter values provided in the PCN;</p>			

**(.a.vi) Monitoring Report**

**Means of**

Parameters determined- Ex-ante

The following parameters are determined ex-ante and verified by the verification team:

The baseline emission factor ( $EF_{grid, y}$ ) of the project is reported to be determined ex-ante and would remain fixed for the crediting period. A "grid emission factor" refers to a CO<sub>2</sub> emission factor (tCO<sub>2</sub>/MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.9 tCO<sub>2</sub>/MWh for the 2013-2020 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program/11/. Also, for the vintage 2021, the combined margin emission factor calculated from CEA database in India results into higher emission than the default value. Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach. The parameters applied in the calculation were validated by the verification team. The verification team confirms that all relevant parameters have been sufficiently considered and the values of the parameters are real, measurable and conservative.

Parameters monitored ex-post

According to the approved methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/, the following parameters will be monitored:

Parameter	Description
EG <sub>PJ,y</sub>	Quantity of net electricity generation supplied by the project/plant/unit to the grid in year y

The values of the parameters monitored were checked against submitted Joint Meter Readings/8/ and invoices and were found correct.

**Meters details:**

Capacity(MW)	Location	Commissioning Date	Calibration Date	Meter Replacement
20	Kajimittahalli, Kyasamballi & Kogilahalli Village, Bangarpete Taluk, Kolar District	24/10/2019	3/08/2021	05/04/2023
20	Kajimittahalli, Kyasamballi & Kogilahalli Village, KGF Taluk, Kolar District	24/10/2019	3/08/2021	05/04/2023

20	Someshwara Village, Gudibande Taluk, Chikkaballapura District	31/10/2019	13/07/2021	NA
20	Kavalahalli Village, Doddaballapura Taluk, Bengaluru Rural District	28/10/2019	25/11/2020	27/04/2023
10	Saluparahalli Village, Arasikere Taluk, Hassan District	18/10/2019	6/01/2022	NA
5	Bhatthalahalli Village, Chintamani Taluk, Chikkaballapura District	25/10/2019	25/10/2019	27/07/2021
20	Budagatti Village, Haveri Taluk, Haveri District	17/11/2020	11/11/2020	NA
20	Gundoor Village, Savanuru Taluk, Haveri District	17/11/2020	7/11/2020	NA

There is calibration delay for the monitoring period mentioned above. The error factor has been applied in net export values for delay period as meters were not calibrated as per the calibration frequency which is once in five years. As per the Appendix calibration of the VVS Standard v3.0,<sup>3</sup> Para 366(a) error factor of " $\pm 0.2\%$ " should be applicable for both export & import i.e. the measured values. However, net electricity generation is considered as per the registered monitoring plan, the separate export and import values are not available. Hence being conservative and to account for the error for both export & import, a cumulative error of " $-0.4\%$ " on net electricity generation has been applied for delay period.

#### Management system and quality assurance

The monitoring plan presented in the PCN complies with the requirements of the applicable methodology. The verification team has verified all parameters in the monitoring plan against the requirements of the methodology and no deviations have been found.

The management system and quality assurance procedures have been reviewed by the verification team through document review and interviews with the project

<sup>3</sup> [https://cdm.unfccc.int/sunsetcms/storage/contents/stored-file-20210921115831128/reg\\_stan06\\_v03.0.pdf](https://cdm.unfccc.int/sunsetcms/storage/contents/stored-file-20210921115831128/reg_stan06_v03.0.pdf)

	<p>participant. The project participant would train all the monitoring staffs are trained against with related requirement; the training guidelines and monitoring manual are saved and verified.</p> <p>The monitoring plan outlines in the PCN includes:</p> <ul style="list-style-type: none"> <li>- Monitoring Organization</li> <li>- Monitoring apparatus and installation</li> <li>- Calibration</li> <li>- Data collection</li> <li>- Data Management system</li> </ul> <p>The submitted calibration certificates were checked and it was confirmed that the calibrations are conducted periodically as specified in the PCN/2/ i.e. at least once in 5 years. Error factor has been taken into account for the delayed calibration during the current monitoring period.</p>
<b>Findings</b>	CL 01, CL 06, CL 09, CAR 07, CAR 08 and CAR 09 were raised and closed successfully. More information presented in the appendix below.
<b>Conclusion</b>	<p>The verification team is convinced of compliance of the monitoring plan with the requirements of the monitoring methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/. During the remote audit assessment, the verification team interviewed the PP that the monitoring arrangements described in the monitoring plan are feasible within the project design.</p> <p>The monitoring parameter reported in MR/3/ adequately represents the parameters relevant to emission reduction calculation. The calibration report ensures the accuracy of the data reported. The number of CoUs generation is calculated based on this accurately reported data. The calculation was done using an excel sheet where all the parameters were reported. The grid emission factor for electricity is considered as per UCR recommendation for Indian project. In the monitoring report/3/, emission reduction calculations are correctly calculated and reported. The monitoring report meets the requirements of UCR project verification requirements.</p>

### Start date, crediting period and duration

<b>Means of Project Verification</b>	The start date and crediting period of project activity was checked based on the commissioning certificate/6/, PCN/2/, MR/3/ and other documents provided.
<b>Findings</b>	No findings raised
<b>Conclusion</b>	The project has chosen crediting period start date as 01/11/2019. The crediting period is chosen as 01/11/2019 to 31/12/2023.

### Positive Environmental impacts

<b>Means of Project Verification</b>	PP has not claimed any separate positive environmental impact. The project being renewable energy project will reduce fossil fuel use through replacement of the same.
<b>Findings</b>	No findings raised
<b>Conclusion</b>	The project is a renewable energy project and reduces the environmental burden by reducing the dependence on fossil fuel-based power plants.

### Project Owner- Identification and communication

<b>Means of Project Verification</b>	PCN/2/, communication agreement/1/, MR/3/, commissioning
--------------------------------------	--

	certificate/6/, power purchase agreement/7/.
<b>Findings</b>	No findings raised
<b>Conclusion</b>	The project owner was identified through a communication agreement/1/ signed between project owner and project aggregator. Commissioning certificates/6/ and Power Purchase Agreement /7/ were also verified and they clearly establish the project ownership. The identification and communication correctly meet the requirement of project verification and UCR project standard.  Project owner: M/s Asian Fab Tec Limited

### Positive Social Impact

<b>Means of Project Verification</b>	Project has provided temporary employment to local people during its installation and commissioning. Also post commissioning some of people have employed permanently and local people were engaged leading to social financial benefit to surrounding. Overall social impact of project implementation is positive on the surrounding area
<b>Findings</b>	No findings raised
<b>Conclusion</b>	Project has overall positive social impact

### Sustainable development aspects (if any)

<b>Means of Project Verification</b>	PP has claimed SDG Goals 4, 5, 7, 8 & 13. SDG 4 is quality education and is verified on the basis of supporting documents. SDG 5 is gender equality and is verified on the basis of supporting documents SDG 7 is affordable and clean energy and it is verified during remote audit as the project is solar power plant. SDG 8 is decent work & economic growth and SDG 13 is climate action. These claims were checked on the basis of supporting documents, JMR & invoice, employment of the local people on the project site and emission reduction calculations respectively.
<b>Findings</b>	Not applicable
<b>Conclusion</b>	The project has the capability to address SDG 4, 5, 7, 8 and 13.

### Internal quality control

The verifier confirms that,

- Due professional care has been taken while reviewing the submitted document.
- There is no conflict of interest as the verifier has no other engagement with either the aggregator or project owner directly or indirectly.
- Verification team consists of experienced personnel.

### Project Verification opinion

Assessment team conducted documentation review the PCN/2/ against the UCR program verification standard version 2.0 and UCR project eligibility criteria version 7.0 and the UCR-PCN-FORM Version 1.0/12/.

It is confirmed that the project activity is a 135 MW greenfield solar power plant, that is spread across different villages in the state of Karnataka, India. The geo co-ordinates of the 135 MW plant (20 MW + 20 MW + 20 MW + 20 MW + 10 MW + 05 MW + 20 MW + 20 MW) have been mentioned in sections above. Assessment team performed an offsite audit and confirmed that the location described in the PCN is accurate. The verification was performed on the basis of UCR requirements, and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the PCN, MR and additional background documents; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

The project correctly applies the approved baseline and monitoring methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0/13/.

The monitoring plan provides for the monitoring of the project's emission reductions. The monitoring arrangements described in the monitoring plan are feasible within the project design, and the project participants are able to implement the monitoring plan. Given that the project is implemented and maintained as designed, the project has achieved the emission reductions of 470,579 tCO<sub>2</sub>eq during the monitoring period i.e. from 01/11/2019 to 31/12/2023.

The review of the project design documentation and the subsequent follow-up interviews have provided assessment team with sufficient evidence to determine the fulfilment of stated criteria. In our opinion, the project meets all applicable UCR requirements. Assessment team thus requests the registration of the proposed UCR project activity.

## Appendix 1. Abbreviations

Abbreviations	Full texts
ACM	Approved Methodology for large-Scale CDM project activities
UCR	Universal Carbon Registry
PCN	Project Concept Note
MR	Monitoring Report
t	Tonnes
NGO	Non-Governmental Organization
ISO	International Organization for Standardization
CAR	Corrective Action Request
CL	Clarification Request
GHG	Greenhouse Gas
MWh	Megawatt Hours

CO <sub>2</sub>	Carbon Dioxide
CH <sub>4</sub>	Methane
N <sub>2</sub> O	Nitrous Oxide

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

- ❖ Mr. Pankaj Kumar worked as team leader – Bihar for South Asia Climate Proofing and Growth Development (CPGD) – Climate Change Innovation Programme (CCIP) supported by DFID that seeks to mainstream climate change resilience into planning and budgeting at the national and sub-national level in India, Pakistan, Nepal, and Afghanistan. Pankaj Kumar has worked previously with IL&FS Infrastructure Development Corporation and BUIDCO (Bihar Urban Infrastructure Development Corporation), Govt. of Bihar as Environmental Specialist for WB & ADB funded projects. Prior to this, he worked with Carbon Check (UNFCCC accredited DoE), Johannesburg, RSA, Applus certification as Team Leader for validation, verification of around 100 GHG projects in Asia, Africa, USA, Asia Pacific & Americas. Pankaj is accredited Lead Auditor, Validator, Verifier and Technical Expert for Sectoral Scope/Technical Area – 1.1, 1.2, 3.1, 4.1, 13.1 by Enviance. He is also member of task force on climate change & human health, Health Department, GoB and on roster of UNICEF’s WASH experts. He is an experienced, qualified and result oriented Environment Professional having more than 14 yrs. of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Validation and Verification of GHG project under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil. He provides technical support for environmental investigative, consultative and remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing. Pankaj Kumar is Masters in Environment Management from Forest Research Institute (University), I.C.F.R.E, Dehradun, which is Centre of Excellence in South East Asia for Forestry education & research and PGDEL from National Law School of India University, Bangalore (India).
- ❖ Vipul holds Bachelor of Technology from VIT University Vellore in 2020. He has gained valuable work experience as a site engineer at Light House Energy Developers, where he was employed from May 2020 to August 2022. Vipul holds an IRCA certification as an ISO 9001 Lead Auditor, demonstrating his expertise in quality management systems. He is well-versed in ISO 14064-1, ISO 14064-2, and ISO 14064-3, which are standards for greenhouse gas accounting and reporting. Furthermore, Vipul has received training in ISO 17029 and ISO 14065, highlighting his proficiency in environmental auditing and conformity assessment. He has also completed Clean Fuel Regulation training from Environment and Climate Change Canada, demonstrating his expertise in environmental management and sustainability.
- ❖ Ritika Yadav, a Chemical Engineering graduate from Government Ujjain Engineering College, Ujjain, is currently residing in Indore. She pursued her Masters in Environmental Management from Rajiv Gandhi Prodyogiki University. With a background in Foam and Mattress industry, having worked at Duroflex Pvt. Ltd., she brings over a year of experience in the climate change and Sustainability domain.

During her tenure at True Quality Certifications Pvt. Ltd., an outsourced entity for LGAI Technological Center, S.A. (Spain), Ritika actively contributed to supporting audit teams. Her responsibilities included the validation and verification of project activities, both renewable and non-renewable, under various greenhouse gas (GHG) schemes such as CDM, VCS, GS, and GCC.

- ❖ Mr. Vijayanand is an experienced professional, a strategic HSE expert with 16 years of leadership in environmental consulting, audit, and regulatory compliance. He has successfully implemented HSE/ESG rules across Asia and Europe, managing corporate and site-level HSE functions. His roles have involved EIA, waste management, and policy development. He is leading HSE and ESG efforts at Hero Future Energies, demonstrating budgeting, due diligence, and international standard implementation skills. He has contributed to impactful projects like ESIA, renewable energy initiatives, and audits. He is also having accreditation as a Lead Auditor in CDM and Verra by various DOEs/VVBs, he is qualified by Enviance as a TL, TR and Technical expert in Secton 1.2, 3.1, 14.1.

### Appendix 3. Document reviewed or referenced

No.	Author	Title	References to the document	Provider
1	NA	Communication agreement		Project Owner
2	NA	Project Concept Note		Aggregator
3	NA	Monitoring report		Aggregator
4	NA	Emission reduction sheet		Aggregator
5	NA	Declaration on avoidance of double counting		Aggregator
6	NA	Commissioning Certificates for the solar power plants		Aggregator
7	NA	Power purchase agreement		Aggregator
8	NA	Joint Meter Readings/invoices for the complete monitoring period		Aggregator
9	NA	Calibration certificates for energy meters		Aggregator
10	NA	Equipment purchase order		Aggregator
11	NA	Grid Emission factor recommended for Indian projects by UCR	<a href="https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com//Documents/UCRStandardAug2024updatedVer7_020824191534797526.pdf">https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com//Documents/UCRStandardAug2024updatedVer7_020824191534797526.pdf</a>	General project eligibility criteria and guidance UCR standard version 7.0
12	UCR	UCR Program manual version 6 UCR COU standard version 7 UCR Verification standard version 2 UCR terms and conditions		Universal Carbon Registry
3	CDM	CDM approved methodology- ACM0002: Grid Connected electricity generation from renewable sources version 21.0		UNFCCC

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

Table 1. CLs from this Project Verification

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	01
<b>Raised by:</b>	Mr. Pankaj Kumar	<b>Document Reference</b>	MR
<b>Finding Description</b>		<b>Date:</b>	28/06/2024
JMR readings of few months are inconsistent with the readings of B forms provided. PP should clarify the inconsistency in JMR.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	22/07/2024
PP has modified the monthly generation value inline with the Provided B-forms			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	15/08/2024
PP has modified few JMR readings but few are still pending. PP should clarify the inconsistency of remaining JMR. Hence, this part of CL is open.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	
PP has modified all the Generation values as per the B form.			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	03/09/2024
PP has modified all the generation values and the same has been verified by the assessment team. The Values are now consistent with the provided supporting documents. Hence, this part of CL is closed.			

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	02
<b>Raised by:</b>	Mr. Pankaj Kumar	<b>Document Reference</b>	MR
<b>Finding Description</b>		<b>Date:</b>	28/06/2024
PP should submit supporting documents for few JMR readings. Kindly submit.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	22/07/2024
PP has submitted the Pending JMR			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	15/08/2024
PP has submitted the supporting documents of few JMR. PP requested to submit the supporting documents of the remaining JMR. Hence, this part of CL is open.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	
PP has now submitted all the Pending JMRs.			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	03/09/2024
PP has submitted the supporting documents of all the pending JMRs and the same has been verified by the assessment team. Hence, this part of CL is closed.			

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>03</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP shall submit an undertaking for no double counting for current monitoring period and for project activity has neither been registered nor seeking registration under any other GHG programs. Kindly Submit.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has submitted the undertaking for no double counting for the current monitoring period Stating that Project activity has neither been registered nor seeking registration under any other GHG programs.			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has submitted the no double document and the same has been assessed. It is found that PP has neither registered the project under any other GHG programs nor has claimed the credits. Hence, this part of CL is closed.			

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>04</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP shall provide the supporting documents for the Commissioning dates of the few solar power plants mentioned in the MR. Kindly submit.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has submitted the commissioning certificates			
		<b>Date:</b>	<b>15/08/2024</b>
PP has submitted the commissioning certificates and the same has been assessed by the verifier and found to be consistent. Hence, this part of CL is closed.			

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>05</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP shall clarify the Commissioning date of the solar power plant mentioned in the MR; as the mentioned date under MR is found inconsistent with the date mentioned under submitted commissioning certificates.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has modified the Commissioning date in the MR as per the commissioning Certificates			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has modified the commissioning date and on assessment by the verifier it is found consistent with the commissioning certificate. Hence, this part of CL is closed.			

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>06</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP has claimed SDG goal 8, for the same PP shall submit supporting documents of locally employed people. Kindly submit.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has submitted the supporting documents			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has submitted the supporting documents and the same has been assessed by the verifier and found to be consistent. Hence, this part of CL is closed.			

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>07</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP shall submit the photographs of billing meters of all sub-stations. Kindly submit.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has submitted. The billing meter pictures			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has submitted the meter photographs on verification are found to be consistent with the calibration report. Hence, this part of CL is closed.			

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>08</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP has not applied correction factor for readings from August 2021. Kindly clarify.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP wants to clarify that the meter is calibration was done and as per the CEA guidelines testing of meters shall be done at site at least once in five years. And during calibration it is found to be in working satisfactorily after august 2021. Hence PP has not applied the error factor for the mentioned Period.			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
Justification provided by the project proponent is found acceptable CEA India's regulations, which stipulate calibration every five years. The calibration certificate of new meters issued in August 2021 adequately covers the entire period from August 2021 to December 2023. Consequently, the exclusion of the correction factor in the ER sheet is justified and aligns with regulatory requirements. which is further checked and verified by the Verification Team. Hence, this part of CL is closed.			

<b>Classification</b>	<input type="checkbox"/> CAR <input checked="" type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>09</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has claimed additional SDG goal 4 in MR version 2.0, for the same PP shall submit supporting documents. Kindly submit.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>03/09/2024</b>
PP has already submitted the attendance sheet for students.			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>03/09/2024</b>
PP has claimed SDG 4 and has submitted the supporting document which is been verified by the assessment team and found to fulfil the requirements for SDG 4. Hence, this part of CL is closed.			

Table 2. CARs from this Project Verification

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>01</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
Name of the village of 2 project sites are found inconsistent with the name mentioned in the DPR & B form. Corrective action sought.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
Detailed Project report is made during the planning stage of the project .PP wants to clarify that the village in the DPR was the proposed location but due to some geographical reason PP has changed the location. However the mentioned village is where the project activity is located and it can be cross checked using the B-Forms and commissioning certificate			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has given clarification regarding the name of the village and the same has been verified on B form and commissioning certificate. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>02</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP has not mentioned the evacuation center of few project sites. PP to review and update the name. Corrective action sought.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has modified			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	
PP has mentioned the evacuation centre of few project sites. Verifier has assessed the same in MR version 2.0. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>03</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP has not mentioned the salient features of main component of the technology used in MR & PCN. Kindly do the addition.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has added the salient features in PCN and MR			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has added the salient features of main component of the technology used. The same has been verified by assessing PCN version 2.0 & MR version 2.0. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>04</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
PP should provide the reference link for the UCR recommended grid emission factor in MR. Kindly do the needful.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has added the UCR recommended grid emission factor in the MR.			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has added the reference link as a footnote. The same has been verified in MR version 2.0. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>05</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
In section C.10 of MR, table of fixed parameter is not added. Correction sought.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has added the fixed parameter table in the required section			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has added the fixed parameter table in section C.10 of MR. The same has been verified in MR version 2.0. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>06</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document</b>	<b>MR</b>

		<b>Reference</b>	
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
In section C.10 of MR, parameter of net electricity is inconsistent with the parameter mention in the methodology. Correction sought.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has in lined the parameter as per the applied methodology ACM0002 Version 21			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has done the suggested correction and the same has been verified in MR version 2.0. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>07</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
Calibration frequency of the meters is not mentioned in MR. Kindly add it.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has mentioned the Calibration frequency in the MR			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has added the calibration frequency in MR. This has been assessed in MR version 2.0. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>08</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR &amp; PCN</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
In PCN on cover page 1 <sup>st</sup> issuance period and its date is inconsistent with MR & section B.9 of PCN. Correction sought.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has modified			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has made the necessary corrections. This has been verified in PCN version 2.0. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>09</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document</b>	<b>MR &amp; PCN</b>

		<b>Reference</b>	
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
In PCN basic information page is repeated twice. Kindly delete 1 page.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has deleted the Repeated table			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has made the necessary corrections. This has been verified in PCN version 2.0. Hence, this part of CAR is closed.			

<b>Classification</b>	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	<b>Number:</b>	<b>10</b>
<b>Raised by:</b>	<b>Mr. Pankaj Kumar</b>	<b>Document Reference</b>	<b>MR &amp; PCN</b>
<b>Finding Description</b>		<b>Date:</b>	<b>28/06/2024</b>
In PCN under basic information table, PP has not mentioned the version of methodology. Correction sought.			
<b>Client/Responsible Party/Project Proponent Response</b>		<b>Date:</b>	<b>22/07/2024</b>
PP has added the version number of methodology used.			
<b>Validation/Verification Team Assessment</b>		<b>Date:</b>	<b>15/08/2024</b>
PP has made the necessary corrections. This has been verified in PCN version 2.0. Hence, this part of CAR is closed.			

Table 3. FARs from this Project Verification

<b>FAR ID</b>	xx	<b>Section no.</b>		<b>Date:</b> DD/MM/YYYY
<b>Description of FAR</b>				
<b>Project Owner's response</b>				<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by Project Owner</b>				
<b>UCR Project Verifier assessment</b>				<b>Date:</b> DD/MM/YYYY