Project Verification Report

2021

COVER PAGE Project Verification Report Form (VR) BASIC INFORMATION Enviance Services Name of approved UCR Project Verifier / Reference No. **Private Limited** CDM or other GHG Type of Accreditation Accreditation Accreditation Approved UCR Scopes and GHG Sectoral scopes for Project Verification 01 Energy industries (Renewable/Non-Renewable Sources) Validity of UCR approval of Verifier 30/09/2027 Completion date of this VR 17/03/2025 18 MW Solar Power Title of the project activity Plants in Karnataka M/s Asian Fab Tec Limited. 438 Project reference no. (as provided by UCR Program) Name of Entity requesting verification service UCR ID - 438 (Can be Project Owners themselves or any Entity having authorization of Viviid Emissions Project Owners, example aggregator.) Reductions Universal Pvt. Ltd. Name: Lokesh Jain Email ID lokesh.jain@viviidgreen .com UCR ID - 438 Contact details of the representative of the Entity, requesting verification service Viviid Emissions (Focal Point assigned for all communications) Reductions Universal Pvt. Ltd. Name: Lokesh Jain Email ID lokesh.jain@viviidg reen.com India Country where project is located

| Applied methodologies (approved methodologies by UCR Standard used) | ACM0002: Grid- connected electricity generation from renewable sources version 21.0 |
|--|---|
| GHG Sectoral scopes linked to the applied methodologies | 01 Energy industries (Renewable/Non- Renewable Sources) |
| Project Verification Criteria: Mandatory requirements to be assessed | ✓ UCR Standard ✓ Applicable Approved Methodology ✓ Applicable Legal |
| | requirements /rules of host country Eligibility of the Project Type |
| | Start date of the Project activity |
| | Meet applicability conditions in the applied methodology |
| | ✓ Credible Baseline ✓ Do No Harm Test ✓ Emission Reduction calculations |
| | ✓ Monitoring Report✓ No GHG DoubleCounting |
| | Others (please mention below) |
| Project Verification Criteria: Optional requirements to be assessed | Environmental Safeguards Standard and do- no-harm criteria |
| | Social Safeguards Standard do-no- harm criteria |
| Project Verifier's Confirmation: The UCR Project Verifier has verified the UCR project activity and therefore confirms the following: | The UCR Project Verifier Enviance Services Private Limited, certifies the following with respect to the UCR Project Activity [18 MW Solar Power Plants in |

Karnataka M/s Asian Fab Tec Limited, In India *I*.

has correctly described the Project Activity in the Project Concept Note version 2 (dated 09/05/2024) including the applicability of the approved methodology [ACM0002: Gridconnected electricity generation from sources renewable version 21.0 and meets the methodology applicability conditions and has achieved the estimated GHG emission reductions, complies with monitoring methodology and has calculated emission reductions estimates correctly and conservatively.

likely to generate GHG emission reductions amounting to the [not estimated calculated as it is a second issuance period] tCO2e, as indicated in the PCN version 2, which are additional to the reductions that are likely to occur absence of the Project Activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3.

The Project Activity is not likely to cause any net-harm to the environment and/or society

| | complies with all the applicable UCR rules¹ and therefore recommends UCR Program to register the Project activity with above mentioned labels. |
|--|--|
| Project Verification Report, reference number and date of approval | Verification Report |
| | UCR Reference |
| | number: 438 |
| | Date of approval: |
| | 28/03/2025 |
| | |
| Name of the authorised personnel of UCR Project Verifier and his/her signature with date | Vidhya Murali Krishna Quality Manager Date: 28/03/2025 |

PROJECT VERIFICATION REPORT

Executive summary

The project activity is titled- "18 MW Solar Power Plants in Karnataka M/s Asian Fab Tec Limited". Located in the Village- Bevinahalli, Tehsil- Sira, District- Tumkur, State- Karnataka, Country- India.

| Company's Name | Plant Capacity (MW) | Entities involved in Power purchase | Commissioning Date | Geo co-ordinates of Location |
|-------------------|------------------------|--|--------------------|---------------------------------|
| | | agreement | | |
| M/s Asian | 3 | CESC, Mysuru | 23/12/2016 | Latitude: 13°54'38.1"N |
| Fab Tec | 5 | CESC, Mysuru | 23/12/2016 | Longitude: 76°49'16.0"E |
| Limited | 10 | BESCOM | 11/01/2017 | |

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, the electricity is purchased by Chamundeshwari Electricity Supply Corporation Ltd (CESC), Mysuru and Bangalore Electricity Supply Company Ltd (BESCOM).

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 7,8 and 13.

The second crediting period of the project activity is 01 year which is from 01/01/2024 to 31/12/2024. During this monitoring period 19,035 tCO₂e of emission reduction and 25,145 MWh of net electricity generation has been reported.

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 "18 MW Solar Power Plants in Karnataka M/s Asian Fab Tec Limited." The information and data presented in the MR version 2 dated 06/03/2025 is in line with the Project Concept Note Version 2 dated 09/05/2024 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" leading to result in real, measurable and long-term emission reductions achieved for the current monitoring period.

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

| Start date of monitoring period | 01/01/2024 |
|---------------------------------|----------------------------|
| End date of monitoring period | 31/12/2024 |
| Emission reductions achieved | 19,035 tCO ₂ eq |

Project Verification team, technical reviewer and approver

Project Verification team

| No. | Role | Last | First | Affiliation | Involvement in | | |
|-----|--|---------|-------|--|--------------------|---------------------|------------|
| | | name | name | (e.g. name of central orother office of UCR Project Verifier or outsourced entity) | Document review | Off-Site inspection | Interviews |
| 1. | Team Leader/ Technic al Expert | Singh | Ritu | Enviance Services Private Limited | Yes | Yes | Yes |
| 2. | V-V Trainee / Technic al Expert | Mahajan | Swati | Enviance Services Private Limited | Yes | Yes | Yes |

| in | | | |
|---------|--|--|--|
| Trainee | | | |

Technical reviewer and approver of the Project Verification report

| No. | Role | Type of resourc e | Last name | First name | Affiliation (e.g. name of central or other office of UCR Project Verifier or outsourced entity) |
|-----|--------------------|-------------------|-----------|------------|---|
| 1. | Technical reviewer | Internal | Kumar | Pankaj | Enviance Services Private Limited |

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

Date of off-site inspection: 10/03/2025

| No. | Activity performed Off-Site | Site location | Date |
|-----|--|---|------------|
| 1. | a) An assessment of the implementation and operation of the project activity as per the PCN and UCR requirements | Located at the Village- Bevinahalli, Tehsil- Sira, District- Tumkur, State- Karnataka, | 10/03/2025 |
| | b) Verification of the project design, as documented is sound and reasonable, and meets the identified criteria of UCR Standard Requirements and associated guidance | Country- India. | |
| | c) Assessment to conformance with the certification criteria as laid out in the UCR Standards; | | |
| | 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; | | |
| | 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.
- f) Review of information flows for generating, aggregating and reporting of the parameters to bemonitored
- g) To confirm that the operational and data collection procedures can be implemented in accordancewith the Monitoring Plan
- h) Cross-check of information provided in the submitted documents and data from other sources available at site
- 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
- j) Interviews of local Stakeholders

Interviews

| No. | | Interv iew | | Date | Subje ct |
|-----|-----------|---------------|---|------------|---|
| | Last name | First name | Affiliation | | |
| 1. | Prakash | K.V. | M/s Asian Fab Tec Limited | 10/03/2025 | Project Implementation, |
| 2. | - | Shivraj | | | Monitoring plan, |
| 3. | - | Sharath | Site manager | | Project Boundary, |
| 4. | Mishra | Priya | Viviid emissions | | Eligibility criteria, Host country |
| 5. | Jain | Lokesh | reductions universal private Ltd. | | requirements, Emission reduction calculations Project implementation, monitoring, Local stakeholder |
| 7. | - | Dasanna | Local | | consultation |
| 8. | - | Dhananjaya | stakeholders | | Johnstialion |
| 9. | - | Eranna | | | |
| 10. | HS | Shivaraju | | | |
| 11. | N | Nagappa | | | |

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 |
|--|-----------|---------------|---------------|
| Green House Gas (GHG) | | | |
| Identification and Eligibility of project type | • | - | - |
| General description of project activity | 01 | - | - |
| Application and selection of methodologies and standardized baselines | - | - | - |
| Application of methodologies and standardized baselines | - | - | |
| Deviation from methodology and/or methodological tool | - | - | - |
| Clarification on applicability of methodology, tool and/or standardized baseline | - | - | - |
| Project boundary, sources and GHGs | - | - | - |
| - Baseline scenario | - | - | ı |
| Estimation of emission reductions or net anthropogenic removals | • | 01 | 1 |
| - Monitoring Report | • | 01 | ı |
| Start date, crediting period and duration | - | 01 | - |
| Environmental impacts | - | - | - |
| Project Owner- Identification and communication | - | - | - |
| Others | - | - | - |

| Total | 0.4 | 00 | |
|-------|-----|------|---|
| 10141 | 01 | 1 03 | - |
| | | | |

Project Verification findings

Identification and eligibility of project type

| Means of Project Verification | The project has an installation of 18 MW solar capacity and hence it qualifies as a large-scale project. This is confirmed based on the commissioning certificates and technical specifications. |
|-------------------------------|---|
| | 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. |
| | 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. |
| Findings | No findings raised |
| Conclusion | The UCR-approved format is used for description and the project meets the requirement of the UCR verification standard and UCR project standard. UCR project communication agreement 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. The project activity is overall meeting the requirements of the UCR Verification standard and UCR project standard. |

General description of project activity

| Means of Project Verification | The project activity involves the operation of an 18 MW of large-scale solar power project and its commissioning date and power evacuation at the substation were verified through the commissioning certificate of the project. The power purchase agreement confirms the companies/entities involved in the agreement for purchase of electricity from the 18MW (3 MW +5 MW + 10 MW) project. |
|-------------------------------|---|
| | Assessment team conducted documentation review of the PCN against the UCR program verification standard version 2.0 and UCR project eligibility criteria version 6.0 and the UCR-PCN-FORM Version 1.0. By checking the supporting documents, it is confirmed that the project is a greenfield solar power project, located in village Bevinahalli, Tehsil Sira, district-Tumkur in Karnataka state of India. The approximate geocoordinates of the project locations are 13°54'38.1"N and 76°49'16.0"E. Assessment team performed an offsite inspection of project and confirmed that the location described in the PCN are accurate. |
| | 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 & 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 & Maintenance. |
| Findings | CL 01 was raised and closed successfully. More information presented appendix below. |
| Conclusion | The description of the project activity is verified to be true based on the review of PCN, MR (second issuance period), Commissioning Certificate and power purchase agreement. |

Application and selection of methodologies and standardized baselines

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

| Means of Project Verification | The project has taken the reference of CDM methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0. CDM website is referred to check the latest version of the methodology. For the applicability mentioned in the PCN and MR, technical Specification, and commissioning certificate. |
|-------------------------------|---|
| Findings | No findings raised |
| Conclusion | 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

| Means of Project Verification | The documents reviewed are CDM methodology ACM0002: Grid- |
|-------------------------------|---|
| | connected electricity generation from renewable sources version 21.0, |
| | UCR Program standard, and UCR Verification Standard. |
| Findings | No findings raised |
| Conclusion | The verification team confirms that all the applicability criteria set by |
| | the applied CDM methodology and its eligible tools are met. The |
| | relevant information against those criteria is also included in the |
| | PCN and MR Ver.2. The selected CDM methodology for the |

project activity is applicable.

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

| Means of Project Verification | Project owner has considered project boundary as per applicable methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0, "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 and MR confirms that project sites and Indian electricity grid system is considered as a project boundary which is appropriate. |
|-------------------------------|--|
| Findings | No findings raised |
| Conclusion | The project boundary is correctly defined in the PCN and MR. 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

| Means of Project Verification | As per the applied methodology ACM0002: Grid-connected electricity generation from renewable sources version 21.0 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 plants. |
|-------------------------------|--|
| Findings | No findings raised |
| Conclusion | 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. 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. |

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

| Means of Project | The project verification team checked whether the equations and parameters used to calculate GHG emission reductions or net anthropogenic GHG removals for PCN and MR are in |
|------------------|---|
| Verification | accordance with applied methodology. Project verification team checked section B.5 and C.5.1 of the PCN & MR (second issuance period) respectively to confirm whether all formulae to calculate baseline emissions, project emission and leakage have been applied in line with the underlying methodology. The emission reduction calculation has been carried out as per the CDM methodology ACM0002, Version 21.0. BE _y = EG _{BLy} X EF _{CO2} , y |

Where, BEy = Baseline Emissions in year y; tCO₂

EG_{BLy} = Quantity of net electricity displaced as a result of the implementation of the CDM project activity in year y (MWh)

 $\mathsf{EF}_{\mathsf{CO2},\ y} = \mathsf{Combined}\ \mathsf{margin}\ \mathsf{CO}_2\ \mathsf{emission}\ \mathsf{factor}\ \mathsf{for}\ \mathsf{grid}\ \mathsf{connected}\ \mathsf{power}\ \mathsf{generation}\ \mathsf{in}\ \mathsf{year}\ \mathsf{v}.$

A "grid emission factor" refers to a CO₂ emission factor (tCO₂/MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.757 ²tCO₂/MWh for the 2024 year as a fairly conservative estimate for Indian projects not previously verified under any GHG program.

Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach.

Project emissions: As per paragraph 35 of the applied methodology, For most renewable energy project activities, $PE_y = 0$. Since solar power is a GHG emission free source of energy project emission considered as Zero for the project activity.

Leakage Emissions: As per the paragraph 61 of the applied methodology ACM0002 Version 21.0, there are no emissions related to leakage in this project.

Emission reductions: As per Paragraph 62 of the applied methodology, emission reductions are calculated as follows

 $ER_y = BE_y - PE_y - LE_y$

Where: ERy = Emission reductions in year y (tCO₂)

 BE_y = Baseline Emissions in year y (t CO_2)

 $PE_y = Project emissions in year y (t CO₂)$

 $LE_y = Leakage emissions in year y (t CO₂)$

Therefore, $ER_y = BE_y$

The start date of the Project is from 23/12/2016 which is the earliest Commissioning date. For the ease of the calculation, duration of this crediting period is started from 01/01/2017 to 31/12/2027.

The crediting period for this second monitoring period is from 01/01/2024 to 31/12/2024

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

| Vintage Year | Net Generation in MWh | Grid Emission Factor | Emission Reduction(tCO ₂) |
|--------------------------|-----------------------|-------------------------|--|
| 01/01/2024 to 31/12/2024 | 25,145 | 0.757 | 19,035 |
| | 25,145 | | 19,035 |
| Total | | | |

Findings Conclusion

CAR 01 was raised and closed successfully. More information is present in appendix below.

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 and its tool "Tool to calculate the emission factor for an electricity system" Version 07.0.

² UCR CoU Standard Update: 2024 Vintage UCR Indian Grid Emission Factor Announced | by Universal Carbon Registry | Jan, 2025 | Medium

It is confirmed by Assessment team that:

(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;

(.a.vi) Monitoring Report

Means of Project Verification

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 CO₂ emission factor (tCO₂/MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.757 ³tCO₂/MWh for the 2024 year as a fairly conservative estimate for Indian projects not previously verified under any GHG program. 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, the following parameters will be monitored:

| Parameter | Description |
|--------------------|--|
| EG _{PJ,y} | Quantity of net electricity generation supplied by the projectplant/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.

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 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.

The monitoring plan outlines in the PCN includes:

³ UCR CoU Standard Update: 2024 Vintage UCR Indian Grid Emission Factor Announced | by Universal Carbon Registry | Jan, 2025 | Medium

| | Monitoring Organization Monitoring apparatus and installation: Calibration Data collection: Data Management system The submitted calibration certificates were checked and it was confirmed that the calibrations are conducted periodically as specified in the PCN i.e. at least once in 5 years. No delay in calibration is observed and no meter change has taken place during the current monitoring period. |
|------------|---|
| Findings | CAR 03 was raised and closed successfully. More information presented in the appendix below. |
| Conclusion | 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. 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. |
| | The monitoring parameter reported in MR adequately represents the parameters relevant to emission reduction calculation. The calibration report ensures the accuracy of the data reported. The number of CoUs generation in second issuance period 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, emission reduction calculations are correctly calculated and reported. The monitoring report meets the requirements of UCR project verification requirements. |

Start date, crediting period and duration

| Manua of Duningt Varification | The start data and available project of project activity was absolved based. | |
|-------------------------------|--|--|
| Means of Project Verification | The start date and crediting period of project activity was checked based | |
| | on the commissioning certificate, PCN, MR and other documents | |
| | provided. | |
| Findings | CAR 02 was raised and closed successfully. More information presented | |
| | in the appendix below. | |
| Conclusion | The project has chosen crediting period start date as 01/01/2017. The | |
| | crediting period for this second issuance period is chosen as 01/01/2024 | |
| | to 31/12/2024. | |

Positive Environmental impacts

| Means of Project Verification | 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. |
|-------------------------------|--|
| Findings | No findings raised |
| Conclusion | 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

| Means of Project Verification | PCN, communication agreement, MR, commissioning certificate, power purchase agreement. |
|-------------------------------|--|
| Findings | No findings raised |
| Conclusion | The project owner was identified through a communication agreement signed between project owner and project aggregator. Commissioning certificates and Power Purchase Agreement 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

| Means of Project Verification | 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 | |
|-------------------------------|---|--|
| Findings | No findings raised | |
| Conclusion | Project has overall positive social impact | |

Sustainable development aspects (if any)

| Means of Project | PP has claimed SDG Goals 7, 8 & 13. SDG 7 is affordable and clean energy and it | | |
|------------------|--|--|--|
| Verification | 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. | | |
| Findings | Not applicable | | |
| Conclusion | The project has the capability to address SDG 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 aggregatoror project owner directly or indirectly.
- Verification team consists of experienced personnel.

Project Verification opinion

Assessment team conducted documentation review the PCN against the UCR program verification standard version 2.0 and UCR project eligibility criteria version 6.0 and the UCR-PCN-FORM Version 1.0.

It is confirmed that the project activity is an 18MW greenfield solar power plant, located in the Village Bevinahalli, Tehsil- Sira, District- Tumkur, State- Karnataka, Country-India. The geo co-ordinates of the project are Latitude: 13°54'38.1"N and Longitude:

76°49'16.0"E. 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.

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 19,035 tCO2eq during the second monitoring period i.e. from 01/01/2024 to 31/12/2024.

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.

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 ₂ | Carbon Dioxide | |
| CH4 | Methane | |
| N2O | Nitrous Oxide | |

Competence of team members and technical reviewers

- Mr. Pankai 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).
- Ms. Ritu Singh has done Masters in Environmental Science from Central University of South Bihar, Gaya and bachelor of Science in Zoology from Magadh Mahila College, Patna University, India. She has done Masters' research focused on solid waste management during and post covid-19 pandemic and conducted a survey in Medical Colleges of Bihar to study the trends of waste management. She has more than 2 year working experience in True Quality Certifications Pvt. Ltd. (An outsource entity for LGAI Technological Center, S.A. (Spain) "Applus+ Certification") and has been involved in supporting Audit teams for Validation and Verifications of Project Activities (Renewable and non-Renewable projects) under CDM/VCS/GS4GG/GCC programs. Currently, Ritu is engaged as an internal resource with Enviance Services Private Limited, where she is accredited as a Lead Auditor, Validator, Verifier, and Technical Expert for Sectoral Scope/Technical Area 1.2 by Enviance.
- Ms. Swati Mahajan is graduate in Environmental Engineering from Shivaji University, India and previously worked as an Environment Engineer at Eco Designs India Private Ltd., Pune. She is adept in designing of landfill sites for solid waste management. She also has hands on experience in cost benefit analysis and preparation of DPRs for SWM projects. She also has done a certified course in carbon capture and storage from Edinburg University. Currently working as GHG assessor for projects under various GHG mechanisms like GCC, ICR, UCR and VERRA.

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 | UCR CoU Standard Update: 2024 Vintage UCR Indian Grid Emission Factor Announced by Universal Carbon Registry Jan, 2025 Medium | General project eligibility criteria and guidance UCR standard version 6.0 |
| 12 | UCR | UCR Program manual version 5 UCR COU standard version 6 UCR Verification standard version 2 UCR terms and conditions | | Universal Carbon Registry |
| 13 | CDM | CDM approved methodology- ACM0002: Grid Connected electricity generation from renewable sources version 21.0 | | UNFCCC |

Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

| Classification | ☐ CAR ☐ CL/CR | ∐ FAR | Number: | 01 | |
|--|--------------------------------------|-----------------------|---------|------------|--|
| Raised by: | Ms. Ritu Singh | Document Reference | MR | | |
| Finding Descri | Finding Description Date: 11/03/2025 | | | | |
| 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. | | | | | |
| Client/Responsible Party/Project Proponent Response Date | | | Date: | 14/03/2025 | |
| PP has submitted the No double counting for the monitoring period 01/01/2024 to 31/12/2024. | | | | | |

Validation/Verification Team Assessment Date: 15/03/2025 PP has submitted 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. The assessment team has verified the same. Hence, this part of CL is closed. Table 2. CARs from this Project Verification ⊠ CAR Classification ☐ CL/CR Number: 01 FAR Raised by: MR Ms. Ritu Singh **Document** Reference **Finding Description** 11/03/2025 Date: 1. Few JMR values in actual emission excel sheet are inconsistent with the supporting document provided. Correction sought. 2. According to revised excel sheet, PP shall change the net energy generation and emission reduction values in MR. Correction sought. Client/Responsible Party/Project Proponent Response 14/03/2025 Date: 1. PP has corrected the net generation value in the MR inline with the Documents Provided. 2. PP has updated the MR as per the modified ER sheet. Validation/Verification Team Assessment Date: 15/03/2025 1. PP has corrected the JMR values in excel sheet. The assessment team has verified the excel sheet and found to be consistent with the documents provided. 2. PP has updated the net energy generation and emission reduction values in the MR version 2 and found consistent with the updated excel sheet. Hence, this part of CAR is closed. Classification ⊠ CAR ☐ CL/CR ☐ FAR Number: 02 Raised by: Ms. Ritu Singh **Document** MR Reference **Finding Description** 11/03/2025 Date: In section A.5 of MR, monitoring period is inconsistent. Correction sought. Client/Responsible Party/Project Proponent Response Date: 14/03/2025 PP has modified the Monitoring Period and the Monitoring period is consistent throughout out the MR Validation/Verification Team Assessment 15/03/2025 Date: PP has corrected the monitoring period in section A.5 of MR version 2 and found consistent throughout the report. Hence, this part of CAR is closed. Classification \bowtie CAR ☐ CL/CR ☐ FAR Number: 03

Raised by:

Ms. Ritu Singh

MR

Document Reference

| Finding Description | Date: | 11/03/2025 | |
|---|-------|------------|--|
| As per UCR standards. in section C.5 of MR PP shall add final calculation table from excel sheet in MR. Correction sought. | | | |
| Client/Responsible Party/Project Proponent Response | Date: | 14/03/2025 | |
| PP has now added the table as per the UCR standard for the monitoring period 01.01.2024 to 31.12.2024 | | | |
| Validation/Verification Team Assessment | Date: | 15/03/2025 | |
| As per UCR standards PP has added the final calculation table version 2 and the same has been verified by the assessment te | | | |

Table 3. FARs from this Project Verification

| FAR ID | XX | Section no. | | Date: DD/MM/YYYY | | |
|--|---|-------------|--|------------------|--|--|
| Description | Description of FAR | | | | | |
| | | | | | | |
| Project Own | Project Owner's response Date: DD/MM/YYYY | | | | | |
| | | | | | | |
| Documentation provided by Project Owner | | | | | | |
| | | | | | | |
| UCR Project Verifier assessment Date: DD/MM/YYYY | | | | | | |
| | | • | | | | |