Project Verification Report

2021

COVER PAGE Project Verification Report Form (VR)	
BASIC INFORMATION	
Name of approved UCR Project Verifier / Reference No.	Enviance Services Private Limited
Type of Accreditation	☒ CDM or other GHG Accreditation ☐ ISO 14065 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	06/03/2025
Title of the project activity	19.5 MW WIND POWER PROJECT IN RAJASTHAN BY LEAP GREEN ENERGY PVT LTD
Project reference no. (as provided by UCR Program)	448
Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	UCR ID – 448 Viviid Emissions Reductions Universal Pvt. Ltd. Name: Lokesh Jain Email ID: lokesh.jain@viviidgreen.com
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	UCR ID – 448 Viviid Emissions Reductions Universal Pvt. Ltd. Name: Lokesh Jain Email ID:

	lokesh.jain@viviidgreen.com
Country where project is located	India
Applied methodologies (approved methodologies by UCR Standard used)	CDM UNFCCC Methodology: 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 Double Counting
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 *19.5 MW WIND POWER PROJECT IN RAJASTHAN BY LEAP GREEN ENERGY PVT LTD*. ☒ The Project Owner has correctly described the Project Activity in the Project Concept Note version 1(05/06/2024) including the applicability of the approved methodology [*ACM0002: Grid connected electricity generation from renewable sources-Version 21.0*,] 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. ☒ The Project Activity is likely to generate GHG emission reductions amounting to the estimated [not calculated as this is a second issuance period] TCO_{2e}, as indicated in the PCN version 1 , 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. ☒ The Project Activity is not likely to cause any net-harm to the environment and/or society ☒ The Project Activity complies with all the applicable UCR rules[1] 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: 448 Date of approval- 21-03-2025
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	Vidhya Murali Krishna  Quality Manager Date: 21-03-2025

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PROJECT VERIFICATION REPORT

Executive summary

The Project "19.5 MW Wind Power Project in Rajasthan by Leap Green Energy Pvt Ltd" is a wind-based power generation facility comprising 15 wind turbines across four villages located in the Jaisalmer district of the state of Rajasthan. The project is owned by Leap Green Energy Private Limited (hereinafter referred to as the Project Proponent or PP).

The purpose of the project activity is to utilize renewable wind energy for generation of electricity. The project activity replaces anthropogenic emissions of greenhouse gases (GHG's) into the atmosphere, It causes total minimum environmental impacts and in turn will lead to actual emission reduction of 12,444 tCO_2e over the entire monitoring period which is 01/01/2024 to 31/12/2024 (second issuance period).

Total cumulative installed capacity of the project would be 19.5 MW with a total gross energy generation of 16,439 MWh during the entire second monitoring period. The Large-Scale wind power projects developed by Leap Green Energy Private Limited, will deliver electricity to the buyer, through National transmission network.

Project Activity	Power Plant Name	Village/State	Energy Source	Installed capacity in MW	Annual generation in MWh/year	Commissioning date
1	Akal	Sirwa, Jaisalmer Dist. Rajasthan India	Wind Power	2 X 1.25 MW	2.5	04/12/2010
2	Akal	Sangana, Jaisalmer Dist. Rajasthan India	Wind Power	3 X 1.25 MW	3.75	30/10/2010
3	Akal	Moda/Chord, Jaisalmer Dist. Rajasthan India	Wind Power	7 X 1.25 MW 3 X 1.5 MW	13.25	29/09/2010 30/09/2010

Proposed wind power project has evolved as a result of the policies of Government of India and Government of Rajasthan, which encourages energy development from renewable sources. These policies have given fresh impetus to wind power generation. Also, by virtue of being a wind power plant, the proposed plant can be instantly started, stopped and quickly adjusted for power generation corresponding to variations in power/energy releases.

The electricity produced by the project is directly contributing to climate change mitigation by reducing the anthropogenic emissions of greenhouse gases into the atmosphere by displacing an equivalent amount of power at grid.

Since the project activity will generate electricity through wind energy, a clean renewable energy source, it will not cause any negative impact on the environment and thereby contributes to climate change mitigation efforts.

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 remote 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 were conducted with the project owners and stakeholders.

Conclusion

Based on the work performed, the verifier concludes that in the project titled “19.5 MW WIND POWER PROJECT IN RAJASTHAN BY LEAP GREEN ENERGY PVT LTD” the information and data presented in the MR version 1.0 (second issuance) is in line with the Project Concept Note Version 1.0 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 which is the 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	12,444 tCO_2e

Project Verification team, technical reviewer and approver

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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	Singh	Ms. Ritu	Enviance Services Private Limited	Yes	Yes	Yes
2.	Validator-Verifier Technical Expert	Singh	Mr. Ritu	Enviance Services Private Limited	Yes	Yes	Yes
3.	V-V Trainee Technical Expert in Trainee	Mahajan	Ms. Swati	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	Kumar	Mr. 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: 01/03/2025

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 b) Verification of the project design, as documented is sound and reasonable, and meets the identified criteria of UCR Standard Requirements andassociated guidance 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 requirementsof 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 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 j) Interviews of local Stakeholders	Sirwa, Sangana, Moda, chord, Jaisalmer Dist. Rajasthan India.	01/03/2025
…			

Interviews

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Mahanta	Sarashi	Viviid Emissions Reductions Universal Pvt. Ltd.	01/03/2025	Project Implementation, Monitoring plan, Project Boundary, Eligibility criteria, Host country requirements, Emission reduction calculations Project implementation, monitoring, Local stakeholder consultation
3.	-	Mr. Tirumalai	Leap Green Energy Pvt. Ltd.		
4.	-	Mr. Deepak	O & M incharge, Rajasthan site		
5.	Rathore	Dilip Singh	Local Stakeholder, Modha Village, Akal Site		
6.	Singh	Bhom	Local Stakeholder, Sirwa Village, Akal Site		
7.	Rathore	Karan Singh	Local Stakeholder, Sangana Village, Akal Site		
8.	Singh	Khangar	Local Stakeholder, Chord Village, Akal Site		
9.	Singh	Ganpat	Local Stakeholder, Chord Village, Akal Site		

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	-	-	-
- Estimation of emission reductions or net anthropogenic removals	-	-	-
- Monitoring Report	-	-	-

Start date, crediting period and duration	-	-	-
Environmental impacts	-	-	-
Project Owner- Identification and communication	-	-	-
Additionality	-	-	-
Sustainable development goal (SDG+)	-	-	-
Total	01	-	-

Project Verification findings

Identification and eligibility of project type

Means of Project Verification	The project has a 19.5 MW total installed capacity and hence 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 Large-scale Consolidated Methodology: 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 owner 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

<table>
<tr><td>Means of Project Verification</td><td>The project activity involves the operation of 19.5 MW of large-scale wind power project and its commissioning date was verified through the commissioning certificate of the project. The power evacuation at the substation is confirmed by the power purchase agreement.

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 newly built wind power project, located in India in the state of Rajasthan at Sirwa, Jaisalmer Dist. Rajasthan, Sangana, Jaisalmer Dist. Rajasthan, Moda/Chord, Jaisalmer Dist. Rajasthan India

The approximate coordinates of the project locations are

<table>
<tr><td>LOC_NO</td><td>Site Name</td><td>Village</td><td>LONGITUDE</td><td>LATITUDE</td></tr>
<tr><td>AK249</td><td>Akal</td><td>Sangana</td><td>26.80342</td><td>71.115722</td></tr>
<tr><td>AK279</td><td>Akal</td><td>Sangana</td><td>26.80147</td><td>71.132583</td></tr>
<tr><td>AK408</td><td>Akal</td><td>Sangana</td><td>26.78594</td><td>71.110167</td></tr>
<tr><td>AK223</td><td>Akal</td><td>Chord</td><td>26.76533</td><td>71.137806</td></tr>
<tr><td>AK30</td><td>Akal</td><td>Chord</td><td>26.70306</td><td>71.102083</td></tr>
<tr><td>AK31</td><td>Akal</td><td>Moda</td><td>26.70006</td><td>71.104361</td></tr>
<tr><td>AK32</td><td>Akal</td><td>Moda</td><td>26.69747</td><td>71.106583</td></tr>
<tr><td>AK33</td><td>Akal</td><td>Moda</td><td>26.69317</td><td>71.109056</td></tr>
<tr><td>AK26</td><td>Akal</td><td>Sirwa</td><td>26.68842</td><td>71.100056</td></tr>
<tr><td>AK35</td><td>Akal</td><td>Moda</td><td>26.68886</td><td>71.115833</td></tr>
<tr><td>AK36</td><td>Akal</td><td>Moda</td><td>26.68636</td><td>71.117194</td></tr>
<tr><td>AK25</td><td>Akal</td><td>Sirwa</td><td>26.68</td><td>71.106806</td></tr>
<tr><td>AK37</td><td>Akal</td><td>Moda</td><td>26.68203</td><td>71.117917</td></tr>
<tr><td>AK16</td><td>Akal</td><td>Sirwa</td><td>26.66081</td><td>71.090639</td></tr>
<tr><td>AK15</td><td>Akal</td><td>Sirwa</td><td>26.65869</td><td>71.094722</td></tr>
</table>

Assessment team performed a remote inspection of project and confirmed that the location described in the PCN is accurate.

The Project is a wind power project, to utilize wind energy to generate zero carbon emission electricity which is mainly dominatedby fossil fuel power output. The project includes integrated power transmission mechanism, high performance rotor blades, dual speed asynchronous generator, 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. Microprocessor controlled high efficiency soft start. Active Yaw gear drives incorporating hydraulic yaw brakes.</td></tr>
<tr><td>Findings</td><td>CL 01 was raised and closed successfully.</td></tr>
<tr><td>Conclusion</td><td>The description of the project activity is verified to be true based on the review of PCN, MR, Commissioning Certificate, Purchase Order Copies and power purchase agreements.</td></tr>
</table>

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 Large-scale Consolidated Methodology: 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, turbine 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 ACM0002 Large-scale Consolidated Methodology: Grid-connected electricity generation from renewable sources Version 21.0, UCR Program standard, and UCR Verification Standard
Findings	No findings raised
Conclusion	The emission factor considered for the calculation of the emission reductions is verified with the UCR Program Standard. The total installed electrical energy generation capacity of the project equipment exceeds 15 MW thus meeting the requirement of large-scale projects. It was confirmed that application of methodology and tools is correctly described in the MR submitted

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

Means of Project Verification	Project owner has considered project boundary as per applicable methodology ACM0002 Large-scale Consolidated Methodology: Grid-connected electricity generation from renewable sources Version 21.0, "The spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the UCR project power plants are connected. Thus, the project boundary includes the Wind Turbine Generators (WTGs) and the Indian grid system". 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 Large-scale Consolidated Methodology: Grid-connected electricity generation from renewable sources Version 21.0 the baseline scenario is as following: The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid. 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. Relevant national and/or sectoral policies and circumstances are considered and listed in the PCN.

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

Means of Project Verification	The verification team has assessed the calculations of baseline emissions and emission reductions. Corresponding calculations have been carried out based on calculation spread sheet. The parameters and equations presented in the PCN, as well as other applicable documents, have been compared with the information and requirements presented in the methodology. An equation comparison has been made to ensure consistency between all the formulae presented in the calculation files and in the PCN, methodology. The assumptions and data used to determine the emission reductions are listed in the PCN and all the sources have been checked. Based on the information reviewed it is confirmed that the sources used are correctly quoted and interpreted in the PCN. The values presented in the PCN are considered reasonable based on the documentation and references reviewed and the results of the interviews. The baseline methodology has been applied correctly according to requirements. The estimate of the baseline emissions are considered correct as the calculations have been reproduced by the verification team with the attainment of the same results. The algorithms for the determination of the baseline, project, and leakage are discussed in the following sections. 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 tCO2/MWh for year 2024 as a fairly conservative estimate for Indian projects. Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach. (https://medium.com/@UniversalCarbonRegistry/ucr-cou-standard-update-2024-vintage-ucr-indian-grid-emission-factor-announced-ddb790cdc603) **Net GHG Emission Reductions and Removals** $ER_y = BE_y – PE_y – LE_y$ Where: ER_y = Emission reductions in year y (tCO2/y) BE_y = Baseline Emissions in year y (t CO2/y) PE_y = Project emissions in year y (tCO2/y) LE_y = Leakage emissions in year y (tCO2/y)

Baseline Emissions

Baseline emissions include only CO_2 emissions from electricity generation in power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants.

The baseline emissions are to be calculated as follows:

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

Where:

BE_y = Baseline emissions in year y (t CO_2)

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

$EF_{grid,y}$ = Combined margin CO_2 emission factor for grid connected power generation in year y.

The UCR recommends an emission factor of 0.757 tCO2/MWh for year 2024 as a fairly conservative estimate for Indian projects. Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach. (https://medium.com/@UniversalCarbonRegistry/ucr-cou-standard-update-2024-vintage-ucr-indian-grid-emission-factor-announced-ddb790cdc603)

Project Emissions

As per ACM0002 version 21.0, only emission associated with the fossil fuel combustion, emission from operation of geo-thermal power plants due to release of non-condensable gases, emission fromwater reservoir of Hydro should be accounted for the project emission. Since the project activity is a wind power project, project emission for renewable energy plant is nil.

Thus, PE_y =0.

Leakage

As per ACM0002 version 21.0, 'If the energy generating equipment is transferred from another activity, leakage is to be considered.' In the project activity, there is no transfer of energy generating equipment and therefore the leakage from the project activity is considered as zero.

Hence, LE_y= 0

The actual emission reduction achieved during the second CoU period have been submitted as a part of second monitoring and verification.

Yearly emission reductions calculation for this second monitoring period is given in the table below.

	Year	Net Quantity of net electricity generation supplied by the project activity to the grid in year y	Emission Factor	Baseline Emissions	Project emissions or actual net GHG removals by sink	Leakage	Emission reductions or net anthropogenic GHG removals by sinks
		[MWh]	(tCO2e/MWh)	(tCO2e)	(tCO2e)	(tCO2e)	(tCO2e)
			[EFy]	[Bey]= [EGfacility, y]* [EFy]	[PEy]	[LEy]	[ERy]=[Bey]-[Pey]-[Ley]
	Year 2024	16439	0.757	12444	0	0	12444
	Total	**16439**		**12444**			**12444**
Findings	No findings raised						
Conclusion	In summary, the calculation of emission reductions was correctly demonstrated by the PP according to the methodology ACM0002 Large-scale Consolidated Methodology: Grid-connected electricity generation from renewable sources Version 21.0 and UCR recommended emission factor of 0.757 tCO_2/MWh. 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 and MR; (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; (f) The sampling efforts were undertaken in accordance with the "Standard: Sampling and surveys for UCR project activities and programme of activities", where the applied methodologies require that the data and parameters be determined in accordance with this standard.						

(.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 of the project is reported to be determined ex-ante and would remain fixed for the crediting period, which is calculated as a combined margin (CM), consisting of the combination of OM and BM emission coefficient. 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 Large-scale Consolidated Methodology: Grid-connected electricity generation from renewable sources Version 21.0, the following parameters will be monitored:

Parameter	**Description**
EGPJ,facility,y	Quantity of net electricity generation supplied by the projectplant/unit to the grid in year y
EGPJ,output,y	Electricity supplied by the proposed CDM project to the grid in year y
EGPJ,input,y	The electricity used by the proposed CDM project and input from the grid in year y

The values of the parameters monitored were checked against submittedJoint Meter Readings and invoices and were found correct.

Management system and quality assurance

The monitoring plan presented in the MR 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 MR includes:

- Monitoring Organization
- Monitoring apparatus and installation:
- Calibration
- Data collection:

	- Data Management system The electricity exported and imported by the project will be continuously measured by the meters and it would be monthly reported. Calibrations of the meters will be carried out by a qualified third party periodically. Cross-check measurements include the comparison with the record document confirmed by EDL. The submitted calibration certificates were checked and it was confirmed that the calibrations are conducted periodically as specified in the MR i.e. at least once in 5 years. No delay in calibration is observed and nometer change has taken place during the current monitoring period.
Findings	No findings raised
Conclusion	The verification team is convinced of compliance of the monitoring plan with the requirements of the monitoring methodology ACM0002 Large-scale Consolidated Methodology: 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 is calculated based on this accurately reported data. The calculation was done using an excel sheet where all the parameters were reported. The emission factor for electricity is as per UCR standards. 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

Means of Project Verification	The start date and crediting period of project activity was checked based on the commissioning certificate, purchase orders for the turbines, PCN , MR, joint meter readings and detailed project report.
Findings	No findings raised
Conclusion	The project has chosen crediting period start date as 01/09/2015. The crediting period for this second monitoring 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	The details of the wind turbines installed at 19.5 plan WTG's installed at different locations is given in the table below:

	<table><tr><th>Project Activity</th><th>Project Proponent</th><th>Power Plant Name</th><th>Village/State</th><th>Installed capacity in MW</th></tr><tr><td>1</td><td>LEAP GREEN ENERGY PRIVATE LIMITED</td><td>Akal</td><td>Sirwa, Jaisalmer Dist. Rajasthan India</td><td>2 X 1.25 MW</td></tr><tr><td>2</td><td>LEAP GREEN ENERGY PRIVATE LIMITED</td><td>Akal</td><td>Sangana, Jaisalmer Dist. Rajasthan India</td><td>3 X 1.25 MW</td></tr><tr><td>3</td><td>LEAP GREEN ENERGY PRIVATE LIMITED</td><td>Akal</td><td>Moda/Chord, Jaisalmer Dist. Rajasthan India</td><td>7 X 1.25 MW 3 X 1.5 MW</td></tr></table> Viviid Emissions Reductions Universal Pvt. Ltd. is acting as an aggregator for these projects. The submitted commissioning certificates, agreements, joint meter readings confirm the ownership of the projects by the project owner.
Findings	No findings raised
Conclusion	The project owner was identified through a communication agreement signed between project owner and project aggregator. Equipment purchase orders and commissioning certificates were verified. Also, a legal document like Power Purchase Agreement/ Wheeling Agreement clearly establishes the project ownership. The identification and communication correctly meet the requirement of project verification and UCR project standard.

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 Verification	PP has claimed SDG Goals 2, 4, 6, 8 & 13. SDG 2 is zero hunger by providing daily essentials to local people. SDG 4 is quality education by providing educational amenities to underprivileged and rural schools. SDG 6 is clean water and sanitation by providing RO water facility to local people. 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	No findings raised.
Conclusion	All the requirements for claiming the SDG goals were checked thoroughly through the supporting documents, JMR & invoice provided by the PP. Site inspection was done to confirm the employment of the local people and emission reduction sheet was thoroughly checked to claim the SDG 8.

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, MR of first issuance period against the UCR program verificationstandard 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 is a newly built wind power project, located in India in the state of Rajasthan at Sirwa, Jaisalmer Dist. Rajasthan, Sangana, Jaisalmer Dist. Rajasthan, Moda/Chord, Jaisalmer Dist. Rajasthan India

The approximate coordinates of the project locations are

LOC_NO	Site Name	Village	LONGITUDE	LATITUDE
AK249	Akal	Sangana	26.80342	71.115722
AK279	Akal	Sangana	26.80147	71.132583
AK408	Akal	Sangana	26.78594	71.110167
AK223	Akal	Chord	26.76533	71.137806
AK30	Akal	Chord	26.70306	71.102083
AK31	Akal	Moda	26.70006	71.104361
AK32	Akal	Moda	26.69747	71.106583
AK33	Akal	Moda	26.69317	71.109056
AK26	Akal	Sirwa	26.68842	71.100056
AK35	Akal	Moda	26.68886	71.115833
AK36	Akal	Moda	26.68636	71.117194
AK25	Akal	Sirwa	26.68	71.106806
AK37	Akal	Moda	26.68203	71.117917
AK16	Akal	Sirwa	26.66081	71.090639
AK15	Akal	Sirwa	26.65869	71.094722

Assessment team performed a remote 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.

01 CL was raised during the document review. After communication with the PP, the project participants revised the PCN and all CARs and CLs were closed.

The project correctly applies the approved baseline and monitoring methodology ACM0002 Large-scale Consolidated Methodology: Grid-connected electricitygeneration 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 that the project participants are able to implement the monitoring plan. Given that the project is implemented and maintained as designed, the project is likely to achieve the emission reductions of 12,444 tCO2eq during this second monitoring period which is of one year 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 Consolidated Methodologies
UCR	Universal Carbon Registry
PCN	Project Concept Note
MR	Monitoring Report
t	Tonne
ISO	International Organization for Standardization
DNA	Designated National Authority
CER	Certified Emission Reductions
NGO	Non-Governmental Organization
FSR	Feasibility Study Report
IEE	Initial Environmental Examination
CAR	Corrective Action Request
GHG	Greenhouse Gas
Gwh	Gigawatt Hours
Mwh	Megawatt Hours
CO2	Carbon Dioxide
CH4	Methane
N2O	Nitrous Oxide

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 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 & 13.1 by UNFCCC DoE (Designated Operational Entity), APPLUS, Spain. 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 wind power plants		Aggregator
7	NA	Power purchase agreement/wheeling agreement		Aggregator
8	NA	Joint Meter Readings/invoices for the complete monitoring period		Aggregator
9	NA	Calibration certificates for energy meters		Aggregator
10	NA	Purchase order for turbine/generator		Aggregator
11	NA	CEA database version 17		Central Electricity Authority, Government of India
12		UCR Program manual version 5 UCR COU standard version 6 UCR Verification standard version 2 UCR terms and conditions		Universal Carbon Registry
13	NA	CDM approved methodology – ACM0002 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**	**PCN & MR**
Finding Description		**Date:**	**03/03/2025**
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:**	**05/03/2025**
PP has submitted the no double counting for current monitoring period as UCR template.			
Validation/Verification Team Assessment		**Date:**	**06/03/2025**
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

~~**Classification**~~	☒ ~~**CAR**~~ ☐ ~~**CL/CR**~~ ☐ ~~**FAR**~~	~~**Number:**~~	
~~**Raised by:**~~		~~**Document Reference**~~	
~~**Finding Description**~~			
~~**Client/Responsible Party/Project Proponent Response**~~		~~**Date:**~~	
~~**Validation/Verification Team Assessment**~~		~~**Date:**~~	

Table 3. FARs from this Project Verification

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