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	03/06/2025
Title of the project activity	4.8 MW Project by Wind World Wind Farm (MP) Pvt. Ltd
Project reference no. (as provided by UCR Program)	UCR 515
Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	Viviid Emissions Reductions Universal Pvt. Ltd.
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	Name: Lokesh Jain Email ID – lokesh.jain@viviidgreen.com
Country where project is located	India
Applied methodologies (approved methodologies by UCR Standard used)	AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0

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 ☐ 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 4.8 MW Project by Wind World Wind Farm (MP) Pvt. Ltd. ☒ The Project Owner has correctly described the Project Activity in the Project Concept Note 1 (dated *22/03/2025*)

	including the applicability of the approved methodology *AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0* 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 94,102 tCO_{2e}, as indicated in the PCN, 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

1https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com//Documents/UCRtermsandconditionsMay2025Ver11_230525172325112351.pdf

	UCR Reference number: 515 Date of approval: 09-06-2025
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	 Vidhya Muralikrishna Quality Manager Date: 09-06-2025

PROJECT VERIFICATION REPORT

Executive summary

The project activity is titled- “4.8 MW Project by Wind World Wind Farm (MP) Pvt. Ltd”. It is a wind-power Project located in Rajoda Village, Dewas Dist, Madhya Pradesh State, India, has been effectively commissioned by M/s Enercon Wind Farm (Madhya Pradesh) Pvt. Ltd., now operating as wind world wind farms (MP) Pvt Ltd. This project comprises of wind turbines spread across the Rajoda village.
The project has been operational since 20 August 2006, which is the earliest commissioning date, and the last commissioning date of the project is 19 September 2006, previously under M/s Enercon Wind Farm (Madhya Pradesh) Pvt. Ltd., now operating as wind world wind farms (MP) Pvt Ltd.

The project activity involves supply, erection, commissioning and operation of 6 machines of rated capacity 800 kW each. The machines are Enercon E-48 make.

Commissioning dates of the project activity are mentioned in the table below:

Company Name	Plant Capacity (KW)	Make	Commissioning Date
Wind World Wind Farms (MP) Pvt Ltd.	800	Enercon	19/09/2006
	800	Enercon	20/08/2006
	800	Enercon	20/08/2006
	800	Enercon	20/08/2006
	800	Enercon	20/08/2006
	800	Enercon	20/08/2006

Geo Co-ordinates of the project activity are mentioned in the table below:

SL no	LOC no	Make	Capacity	Village	Latitude	Longitude
1	12	E-48	800kW	Rajoda	22.91006565	76.08303331
2	12	E-48	800kW	Rajoda	22.91138227	76.08271664
3	12	E-48	800kW	Rajoda	22.91264895	76.08249997
4	12	E-48	800kW	Rajoda	22.91399894	76.08269996
5	12	E-48	800kW	Rajoda	22.91528229	76.08241665
6	12	E-48	800kW	Rajoda	22.90808232	76.08275

Proposed wind power project has evolved as a result of the policies of Government of India and Government of Madhya Pradesh, which encourages energy development from renewable sources. These policies have given fresh impetus to wind power generation.

The Project Activity is a greenfield wind project and the electricity generated by the project is exported to the national grid of India. WIND WORLD WIND FARMS(MP) PVT LTD has installed 4.8 MW wind farm in the state of Madhya Pradesh in India. Wind World (India) Limited (“Wind

World") is the equipment supplier and the operations and maintenance contractor for the Project. There are 6 Wind Energy Convertors ("WEC's") of with rated capacity 800 KW each. The generated electricity is supplied to M.P Paschim Kshetra Vidyut Vitaran Co. Ltd, Indore under a long-term power purchase agreement (PPA). The power produced by the Project Activity is evacuated at 220 KV Dewas substation. As per DPR plant load factor is of 21%. The expected operational lifetime of the project is for 20 years. The project being a renewable energy generation activity, leads to reduction in fossil fuel dominated electricity generation from the Indian grid.

The core objective of this project activity is to displace 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 20 years for wind 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 project activity consists of 6 Wind turbines of 800kW manufactured and supplied by Enercon. This project Generate 4.8 MW power which is consumed by customers delivered by the Grid. The applied technology is one of the most environment friendly technologies available as the operation of the wind power plant does not emit any GHGs or any other harmful gases unlike the operation of conventional power plant. The project activity has used the reliable and proven technology to ensure that an environmentally safe and sound technology has been implemented.

The main component of this project activity is wind turbine which consists of components like main tower, blades, nacelle, hub, main shaft, gear box, bearing and housing, brake and generator. The generation of power from wind turbines 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 wind 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 first crediting period of the project activity is 11 years, 11 months, 30 days in which total estimated electricity generation is 8830 MWh annually and the total GHG emission reduction estimated is 7842 tCO_2e annually.
The electricity generation for the current monitoring period is 108,747.77 MWh and total GHG emission reduction is 96,784 tCO_2e.

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 in the project activity “4.8 MW Project by Wind World Wind Farm (MP) Pvt. Ltd.”, the information and data presented in the MR version 2 dated 27/05/2025 is in line with the Project Concept Note Version 1 dated 22/03/2025 and meets all relevant requirements of the UCR for UCR project activities. The UCR project activity

correctly applies the methodology "AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0" leading to result in real, measurable and long-term emission reductions achieved for the current monitoring period.

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

Start date of monitoring period	01/01/2013
End date of monitoring period	31/12/2024
Emission reductions achieved	96,784 tCO_2 eq

Project Verification team, technical reviewer and approver

Project Verification team

No.	Role	Last name	First name	Affiliation (e.g. name of central or other office of UCR Project Verifier or outsourced entity)	Involvement in		
					Doc review	Off-Site inspection	Interviews
1.	Team Leader/ Technical Expert	Singh	Ritu	Enviance Services Private Limited	Yes	Yes	Yes
2.	Team Leader in Trainee	Mahajan	Swati	Enviance Services Private Limited	Yes	Yes	Yes
3.	V-V / Technical Expert in Trainee	Shastri	Prakhar	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	Pankaj	Enviance Services Private Limited
2.	Approver	Internal	Krishna	Vidhya Murali	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: 19/05/2025			
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 and associated 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 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 be monitored	Rajoda Village, Dewas District, Madhya Pradesh State, India	19/05/2025

	g) To confirm that the operational and data collection procedures can be implemented in accordance with 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 Interviews of local Stakeholders		

Interviews

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Raju	Sai Satish	Wind World Wind Farms (MP) Pvt Ltd.	19/05/2025	Project Implementation, Monitoring plan, Project Boundary, Eligibility criteria, Host country requirements, Emission reduction calculations Project implementation, monitoring, Local stakeholder consultation
2.	Chandel	Anjnesh			
3.	Mahanta	Sarashi	Viviid emissions reductions universal private Ltd.		
4.	Sahu	Narsingh	Local Stakeholders		
5.	Lashkari	Chetan			

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	03	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	-	01	-
- Monitoring Report	-	-	-
Start date, crediting period and duration	-	01	-
Environmental impacts	-	-	-
Project Owner- Identification and communication	-	-	-
Others (please specify)	-	-	-
Total	**03**	**03**	-

Project Verification findings

Identification and eligibility of project type

Means of Project Verification	The project has an installation of a 4.8 MW (0.8 MW x 6) wind power capacity and hence it qualifies as a small-scale project. This is confirmed based on the commissioning certificates and technical specifications. Since the project is a small-scale project, it has applied approved CDM large scale methodology AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0. 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

<table>
<tr><td>Means of</td><td>The project activity involves the operation of a 4.8 MW (0.8 MW x 6) of small-scale wind 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 4.8 MW (Rajoda Village, Dewas Dist, Madhya Pradesh, India) project.

Assessment team conducted documentation review of the PCN against the UCR program verification standard version 2.0 and UCR CoU Standard (project eligibility criteria) version 7.0 and the UCR-PCN-FORM Version 1.0.

By checking the supporting documents, it is confirmed that the project is a greenfield wind power project, the project is located in Rajoda Village, Dewas Dist, Madhya Pradesh state of India. The approximate geo-coordinates of the project locations are mentioned below.

<table>
<tr><th>Company Name</th><th>Plant Capacity (KW)</th><th>Make</th><th>Commissioning Date</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td rowspan="6">Wind World Wind Farms (MP) Pvt Ltd.</td><td>800</td><td>Enercon</td><td>19/09/2006</td><td>22.91006565</td><td>76.08303331</td></tr>
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<tr><td>800</td><td>Enercon</td><td>20/08/2006</td><td>22.90808232</td><td>76.08275</td></tr>
</table>

Assessment team performed an offsite inspection of project and confirmed that the location described in the PCN are 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, CL 02, CL 03 and CAR 03 were raised and closed successfully. More information presented in the appendix below.</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 and power purchase agreement.</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 AMS.I-D Grid-connected electricity generation from renewable sources --- Version 18.0. 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 AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0, 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 AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0, "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 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. GHGsources are correctly identified and reported. The project meets the requirements of UCR project standard, Verification standard andmethodology requirements for a boundary, GHG sources.

(.a.iv) Baseline scenario

Means of Project Verification	As per the applied methodology AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0 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 inthe 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 Verification	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 accordance with applied methodology. Project verification team checked section B.5 and C.5.1 of the PCN & MR 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 AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0 As per the CDM approved AMS-I.D.: "Grid connected renewable electricity generation", version 18, paragraph 22, Baseline emissions include only CO2 emissions from electricity generation in fossil fuel fired 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 as existing grid-connected power plants and the addition of new grid-connected power plants. $BE_y = EG_{PJ,\,y} \times EF_{grid,\,CM,\,y}$ Where; BE_y : Baseline emissions in year y (tCO_2/year) $EG_{PJ,\,y}$: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the UCR project activity in year y (MWh/year) $EF_{grid,CM,\,y}$: Combined margin CO_2 emission factor for grid connected power generation in year y (tCO_2/MWh) A "grid emission factor" refers to a CO_2 emission factor (tCO_2/MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.9 tCO_2/MWh for the 2013-2023 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Also, for the vintage 2021, the combined margin emission factor calculated from CEA database in India results into higher emission than the default value. Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach.[2] Similarly, for the year 2024, a grid emission factor of 0.757 tCO2/MWh is to be applied. These conservative factors are used to calculate emission reductions. In order to facilitate adoption of authentic baseline emissions data and in

[2] https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com//Documents/UCRStandardAug2024updatedVer7_020824191534797526.pdf

keeping with the principle of "conservativeness," all UCR Indian RE projects shall use the new conservative grid emission factor of 0.757 tCO2/MWh in their emission reduction calculations for the 2024 vintage year. https://medium.com/@UniversalCarbonRegistry/ucr-cou-standard-update-2024-vintage-ucr-indian-grid-emission-factor-announced-ddb790cdc603

Project emissions: As per paragraph 39 of AMS-I.D. version-18, only emission associated with the fossil fuel combustion, emission from operation of geo-thermal power plants due to release of non-condensable gases, emission from water 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.

$PE_y = 0$.

Since wind power is a GHG emission free source of energy project emission considered as Zero for the project activity.

Leakage Emissions: The Leakage emissions potentially arising due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g. extraction, processing, transport etc.) are neglected According to the applied methodology AMS-I.D. Paragraph 42, Version 18 guidance on leakage, there is no leakage emission from this project activity has been considered.

Thus, $LE_y = 0$.

Emission reductions: As per approved consolidated AMS-I.D.: "Grid connected renewable electricity generation", version 18, Paragraph 43, emission reduction is estimated as difference between the baseline emission and project emission after factoring into leakage.

Thus, $ER_y = BE_y – PE_y – LE_y$

Where:

ERy = Emission reductions in year y (t CO2)
BEy = Baseline Emissions in year y (t CO2)
PEy = Project emissions in year y (t CO2)
LEy = Leakage emissions in year y (t CO2)

Therefore, $ER_y = BE_y$

The start date of the Project is from 01/01/2013 and the earliest Commissioning date is 20/08/2006 and the last commissioning date is 19/09/2006. For the ease of the calculation, duration of the crediting period is started from 01/01/2013 to 31/12/2024

The estimated emission reductions are 7,842 CoUs/yr (7,842 tCO2eq/yr)

Year	Net Generation	Baseline Emissions	Project Emissions	Leakage	Emission Reductions	EF
	MWh	(tCO_2e)	(tCO_2e)	(tCO_2e)	(tCO_2e)	(tCO2/MWh)
Year 1	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 2	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 3	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 4	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 5	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 6	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 7	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 8	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 9	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 10	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 11	8830.08	7947.07	0.00	0.00	7947.07	0.9
Year 12	8830.08	6684.37	0.00	0.00	6684.37	0.757
Total Emission reduction	**105960**	**94102**	**0**	**0**	**94102**	
Average Emission Reduction	8830	7842	0	0	7,842	

The actual emission reduction achieved during the first CoU's period (01/01/2013 to 31/12/2024) as per the Project Activity:

Actual Total baseline emission reductions (BEy)= 96,784 CoUs (**96,784** tCO2eq)

Year	Net Quantity of net electricity generation supplied by the project activity to the grid in year y	Emission Factor	Baseline Emission	Project emissions or actual net GHG removals by sink	Emission reductions or net anthropogenic GHG removals by sinks

		[MWh]	(tCO2e/ MWh)	(tCO2e)	(tCO2e)	(tCO2e)
			[EFy]	[Bey]= [EGfacility , y] * [EFy]	[PEy]	[ERy]=[Bey]-[Pey]-[Ley]
	2013	10,252.12	0.9	9226.91	0	9227
	2014	9,619.91	0.9	8657.92	0	8658
	2015	8,857.37	0.9	7971.63	0	7972
	2016	10,095.73	0.9	9086.16	0	9086
	2017	8,561.33	0.9	7705.19	0	7705
	2018	9,664.41	0.9	8697.97	0	8698
	2019	9,513.27	0.9	8561.94	0	8562
	2020	8,514.50	0.9	7663.05	0	7663
	2021	8,994.32	0.9	8094.89	0	8095
	2022	8,840.56	0.9	7956.50	0	7957
	2023	8,216.80	0.9	7395.12	0	7395
	2024	7,617.46	0.757	5766.42	0	5766
	Total	**1,08,747.77**		**96783.70**		**96784**

Findings	CAR 02 was raised and closed successfully. More information presented appendix below.
Conclusion	In summary, the calculation of emission reductions was correctly demonstrated by the PP according to the methodology AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0 It is confirmed by the 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

Parameters determined- Ex-ante

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

The baseline emission factor ($EF_{grid, y}$) of the project is reported to be determined ex-ante and would remain fixed for the crediting period. A "grid emission factor" refers to a CO_2 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 0.9 tCO_2/MWh for the 2013-2023 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Also, for the vintage 2021, the combined margin emission factor calculated from CEA database in India results into higher emission than the default value. Similarly, for the year 2024, a grid emission factor of 0.757 tCO2/MWh is to be applied. These conservative factors are used to calculate emission reductions.

In order to facilitate adoption of authentic baseline emissions data and in keeping with the principle of “conservativeness,” all UCR Indian RE projects shall use the new conservative grid emission factor of 0.757 tCO2/MWh in their emission reduction calculations for the 2024 vintage year

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 AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0, the following parameters will be monitored:

Parameter	**Description**
$EG_{PJ,y}$	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y

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

Meters details:

Plant Capacity (MW)	**Location**	**Commissioning Date**	**Meter Details**	**Calibration date**	**Calibration validity**	**Calibration delay**
4.8 MW	Madhya Pradesh	19-09-2006 20/09/2006	Main meter-**Q0305644** Check Meter-**Q0305645**	17.08.2023	16.08.2028	01.01.2013 to 17.07.2023

	There is calibration delay for the period mentioned above. Following a conservative approach, an error factor was applied till the Month of **Aug'23**. The error factor has been applied in net export values for delay period **(01.01.2013 to 31.08.2023)** as meters were not calibrated as per the calibration frequency. As per VVS requirement: error factor of "±0.2%" should be applicable for both export & import i.e. the measured values. However, net electricity generation is considered as per the registered monitoring plan, the separate export and import values are not available. Hence being conservative and to account for the error for both export & import, a cumulative error of "-0.4%" on net electricity generation has been applied for delay period. (https://cea.nic.in/wp-content/uploads/2020/02/meter_reg.pdf) 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: - 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. There was no delay in the calibration 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 AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0. 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 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

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 01 was raised and closed successfully. More information

	presented in the appendix below.
Conclusion	The project has chosen crediting period start date as 01/01/2013. The crediting period is chosen as 01/01/2013 to 31/12/2024 and the crediting period for the current monitoring period is 01/01/2013 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 throughreplacement of the same.
Findings	No findings raised
Conclusion	The project is a renewable energy project and reduces the environmentalburden 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: Wind World Wind Farms (MP) Pvt Ltd.

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 7, 8 & 13. SDG 7 is affordable and clean energy and it is verified during remote audit as the project is solar power plant. SDG 8 is decent work & economic growth and is verified by the supporting documents provided. 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	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 7.0 and the UCR-PCN-FORM Version 1.0.

It is confirmed that the project activity is a 4.8 MW of small-scale wind power project located at Rajoda Village, Dewas Dist, Madhya Pradesh State, India.

The geo co-ordinates of the project activity have been mentioned in sections above. 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.

The project correctly applies the approved baseline and monitoring methodology AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0.

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 96,784 tCO2eq during the monitoring period i.e. from01/01/2013 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.

Appendix 1. Abbreviations

Abbreviations	Full texts
AMS	Approved Methodology for Small-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

Appendix 2. Competence of team members and technical reviewers

❖ **Mr. Pankaj Kumar** worked as team leader – Bihar for South Asia Climate Proofing and Growth Development (CPGD) – Climate Change Innovation Programme (CCIP) supported by DFID that seeks to mainstream climate change resilience into planning and budgeting at the national and sub-national level in India, Pakistan, Nepal, and Afghanistan. Pankaj Kumar has worked previously with IL&FS Infrastructure Development Corporation and BUIDCO (Bihar Urban Infrastructure Development Corporation), Govt. of Bihar as Environmental Specialist for WB & ADB funded projects. Prior to this, he worked with Carbon Check (UNFCCC accredited DoE), Johannesburg, RSA, Applus certification as Team Leader for validation, verification of around 100 GHG projects in Asia, Africa, USA, Asia Pacific & Americas. Pankaj is accredited Lead Auditor, Validator, Verifier and Technical Expert for Sectoral Scope/Technical Area – 1.1, 1.2, 3.1, 4.1, 13.1 by Enviance. He is also member of task force on climate change & human health, Health Department, GoB and on roster of UNICEF's WASH experts. He is an experienced, qualified and result oriented Environment Professional having more than 14 yrs. of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Validation and Verification of GHG project under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil. He provides technical support for environmental investigative, consultative and remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing. Pankaj Kumar is Masters in Environment Management from Forest Research Institute (University), I.C.F.R.E, Dehradun, which is Centre of Excellence in South East Asia for Forestry education & research and PGDEL from National Law School of India University, Bangalore (India).

❖ **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.

❖ **Mr. Prakhar Shastri** has done Bachelor of Technology in Electronic Communication Engineering from Medicaps University, Indore. Currently, He is working in Enviance Services Private Limited and has been involved in supporting Audit teams for Verifications of Project Activities (Renewable and non-Renewable projects) under various registries like GCC.

Appendix 3. Document reviewed or referenced

No.	Author	Title	References to the document	Provider
1	NA	Communication agreement		Project Owner
2	NA	Project Concept Note		Aggregator
3	NA	Monitoring report		Aggregator
4	NA	Emission reduction sheet		Aggregator
5	NA	Declaration on avoidance of doublecounting		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	Upto year 2023 - https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com//Documents/UCRStandardAug2024updatedVer7_020824191534797526.pdf Year 2024 - https://medium.com/@UniversalCarbonRegistry/ucr-cou-standard-update-2024-vintage-ucr-indian-grid-emission-factor-announced-ddb790cdc603	General project eligibility criteria and guidance UCR standard version 7.0
12	UCR	UCR Program manual version 6.2 UCR COU standard version 7 UCR Verification standard version 2 UCR terms and conditions		Universal Carbon Registry
13	CDM	CDM approved methodology- AMS.I-D Grid-connected electricity generation from renewable sources ---Version 18.0.		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 Description		**Date:**	**26/05/2025**
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.			
Client/Responsible Party/Project Proponent Response		**Date:**	**28/05/2025**
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.			
Validation/Verification Team Assessment		**Date:**	**30/05/2025**
PP has submitted the no double counting certificate. On assessment it was verified that the project activity has neither been registered nor seeking registration under any other GHG programs and also there is no double counting of emission reduction for the current monitoring period. Hence, CL 01 is closed.			

Classification	☐ **CAR** ☒ **CL/CR** ☐ **FAR**	**Number:**	**02**
Raised by:	**Ms. Ritu Singh**	**Document Reference**	**MR**
Finding Description		**Date:**	**26/05/2025**
1. PP shall submit the technical specifications of the wind turbines 2. PP shall submit the names of the local stakeholders.			
Client/Responsible Party/Project Proponent Response		**Date:**	**28/05/2025**
1. PP has attached footnote where technical specification has been taken from. 2. PP has submitted names of local Stakeholders.			
Validation/Verification Team Assessment		**Date:**	**30/05/2025**
1. PP has attached footnote of technical specifications in MR version 2.0. During verification, all the technical specification of wind turbine mentioned in MR were found consistent with the provided reference link. 2. PP has submitted the names of local stakeholders and the same were assessed by the assessment team. Hence, CL 02 is closed.			

Classification	☐ **CAR** ☒ **CL/CR** ☐ **FAR**	**Number:**	**03**
Raised by:	**Ms. Ritu Singh**	**Document Reference**	**MR**
Finding Description		**Date:**	**26/05/2025**
PP shall submit the DPR of the project activity.			

Client/Responsible Party/Project Proponent Response	Date:	28/05/2025
PP wants to clarify that as this is a small-capacity project, only basic documents such as WTG details, calibration records, and JMRs are available on-site.		
Validation/Verification Team Assessment	**Date:**	**30/05/2025**
As the DPR is not available with the client, PP has submitted all the necessary documents for the verification of the project activity. All the details mentioned in MR is found consistent with the submitted supporting documents. Hence, CL 03 is closed.		

Table 2. CARs from this Project Verification

Classification	☒ **CAR** ☐ **CL/CR** ☐ **FAR**	**Number:**	**01**
Raised by:	**Ms. Ritu Singh**	**Document reference**	**PCN & MR**
Finding Description		**Date:**	**26/05/2025**
1. Date of first issuance period is inconsistent throughout the MR. Correction sought 2. Commissioning dates of 5 project sites is inconsistent with the submitted commissioning certificate. Correction sought.			
Client/Responsible Party/Project Proponent Response		**Date:**	**28/05/2025**
1. PP has corrected the issuance period in the MR. 2. PP has corrected the 5 WTG Commissioning date as 20 Aug 2006.			
Validation/Verification Team Assessment		**Date:**	**30/05/2025**
1. As suggested, PP has made corrections in date of first issuance period in MR. On verification, the date was found consistent in MR version 2.0. 2. PP has made corrections in commissioning dates of 5 WTG in MR version 2.0. On verification it was concluded that all the dates are now consistent with the submitted commissioning certificate. Hence, CAR 01 is closed.			

Classification	☒ **CAR** ☐ **CL/CR** ☐ **FAR**	**Number:**	**02**
Raised by:	**Ms. Ritu Singh**	**Document Reference**	**MR**
Finding Description		**Date:**	**26/05/2025**
Few JMR readings are inconsistent with the submitted supporting documents. Correction sought. As per the revised excel sheet, PP shall make corrections in net energy generation value and emission reduction value in MR wherever applicable.			
Client/Responsible Party/Project Proponent Response		**Date:**	**28/05/2025**
PP has corrected all the inconsistent value and revised in the MR as well.			
Validation/Verification Team Assessment		**Date:**	**30/05/2025**

1. PP has made corrections in JMR readings and during verification all the values were found consistent with the submitted documents. 2. PP has made corrections in net energy generation value and emission reduction value in MR wherever applicable. During verification it was verified that all the values in MR version 2.0 were consistent with the revised excel sheet. Hence, CAR 02 is closed.

Classification	☒ **CAR** ☐ **CL/CR** ☐ **FAR**	**Number:**	**03**
Raised by:	**Ms. Ritu Singh**	**Document Reference**	**PCN & MR**
Finding Description		**Date:**	**26/05/2025**
1. Under section B.8. of PCN and C.10 of MR, Egy,net parameter is inconsistent. Corrective action sought. 2. Under section B.8. of PCN and C.10 of MR, values to be monitored ex ante and ex post are not mentioned correctly under respective headings. Correction sought.			
Client/Responsible Party/Project Proponent Response		**Date:**	**28/05/2025**
1. PP has modified the Table Under section B.8. of PCN and C.10 of MR. 2. PP has Modified Under section B.8. of PCN and C.10 of MR.			
Validation/Verification Team Assessment		**Date:**	**30/05/2025**
1. PP has corrected the EGpjy,net parameter in section B.8. of PCN and C.10 of MR. The same was verified in PCN version 1.0 and MR version 2.0. 2. PP has mentioned the values to be monitored correctly under respective headings in section B.8. of PCN and C.10 of MR and it was verified in PCN version 1.0 and MR version 2.0. Hence, CAR 03 is closed.			

~~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~~