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	30/08/2025
Title of the project activity	Enercon Wind Farms in Karnataka Bundled Project
Project reference no. (as provided by UCR Program)	UCR 511
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)	ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources - Version 22.0
GHG Sectoral scopes linked to the applied methodologies	01 Energy industries (Renewable/Non-Renewable Sources)
Project Verification Criteria:	☒ UCR Standard ☒ Applicable

Mandatory requirements to be assessed	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 Enercon Wind Farms in Karnataka Bundled Project ☒ The Project Owner has correctly described the Project Activity in the Project Concept Note version 2.0 (dated 03/03/2025) including the applicability of the approved methodology *ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources - Version 22.0* 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 27,260 tCO_{2e} annually, 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 UCR Reference number: 511 Date of approval: 09/09/2025

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

Name of the authorised personnel of UCR Project Verifier and his/her signature with date	 Vidhya Muralikrishna Quality Manager Date: 09/09/2025

PROJECT VERIFICATION REPORT

Executive summary

The project activity is titled- “Enercon Wind Farms in Karnataka Bundled Project”.
It is a wind-power Project which is spread in Gadag district in the State of Karnataka, India. The project activity involves WIND WORLD WIND FARMS(KARNATAKA) PVT LTD (3.2MW) & WIND WORLD WIND FARMS(KRISHNA) PVT LTD (15MW) supply, erection, commissioning and operation of total 29 machines, 4 no of rated capacity 800 kW (Karnataka) & 25 no of 600kW (Krishna) each. The machines are Enercon E-40 & E-48 make. The project is owned by Wind World Wind Farms PVT LTD.
The project involves the supply, erection, commissioning, and operation of these machines, managed by Wind World (India) Limited (WWIL), which serves as the equipment supplier and Operation and Maintenance contractor.
The wind farm generates approximately **166,149 MWh** of clean electricity in the current monitoring period. The generated electricity is supplied to Electricity Distribution Company (DISCOM) under a long-term power purchase agreement (PPA). which is part of the INDIAN (Northern, Eastern, Western and North Eastern) grid (now merged in the integrated Indian grid) in India, under a long-term power purchase agreement (PPA) signed between Enercon Wind Farms and Bangalore Electricity Supply Company Limited. The expected operational lifetime of the project is for 20 years. Addressing the energy demand-supply gap in Karnataka and supporting the region’s sustainable growth.
The first WEC under the project activity was commissioned on 15/03/2005 and the last WEC under the project activity was commissioned on 26/03/2005.The project has been operational since the earliest commissioning date.
The project activity is registered under Clean Development Mechanism (CDM)[2] project with registration number 1286. The crediting period of this project under CDM was 01/07/2010 – 30/06/2020. PP seeks verification under UCR from 01/07/2020 onwards, i.e., crediting period for UCR starts from 01/07/2020 to 31/12/2024. Hence, there is no double counting for the said project.

The project consists of 29 turbines of Enercon make E-40 (25 * 600 KW) and E-48 (4 * 800 KW) type Wind Energy Converters (WECs).

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

Sl No	Name of Customer	Individual Capacity (MW)	Site	R.R.NO.	Com. Date
1	Wind World Wind Farms (Krishna)	0.6	Gadag	EWKL H-6	15-03-2005

[2] https://cdm.unfccc.int/Projects/DB/SGS-UKL1186566570.26/view

2	Wind World Wind Farms (Krishna)	0.6	Gadag	EWKL H-6	15-03-2005
3	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
4	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
5	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
6	Wind World Wind Farms (Krishna)Ltd	0.6	Gadag	EWKL H-6	15-03-2005
7	Wind World Wind Farms (Krishna)	0.6	Gadag	EWKL H-6	15-03-2005
8	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
9	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
10	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
11	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
12	Wind World Wind Farms (Krishna)	0.6	Gadag	EWKL H-6	15-03-2005
13	Wind World Wind	0.6	Gadag	EWKL H-6	15-03-2005
14	Wind World Wind	0.6	Gadag	EWKL H-6	15-03-2005

15	Wind World Wind Farms (Krishna)	0.6	Gadag	EWKL H-6	15-03-2005
16	Wind World Wind Farms (Krishna)	0.6	Gadag	EWKL H-6	15-03-2005
17	Wind World Wind Farms (Krishna)	0.6	Gadag	EWKL H-6	15-03-2005
18	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
19	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
20	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
21	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
22	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15-03-2005
23	Wind World Wind	0.6	Gadag	EWKL H-6	15-03-2005
24	Wind World Wind	0.6	Gadag	EWKL H-6	15-03-2005
25	Wind World Wind Farms (Krishna)	0.6	Gadag	EWKL H-6	15-03-2005
26	Wind World Wind Farms (Karnataka)	0.8	Gadag	EWKL H-7	26-03-2005
27	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	26-03-2005

28	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	26-03-2005
29	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	26-03-2005

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

Sl no	Name of Customer	Individual Capacity (MW)	Site	R.R.NO.	Location No	Latitude (Decimal)	Longitude (Decimal)
1	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	1	15.1967	75.7375
2	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	2	15.1956	75.7382
3	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	3	15.1948	75.7385
4	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	4	15.1938	75.7386
5	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	5	15.1931	75.7379
6	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	6	15.2135	75.7255
7	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	7	15.2116	75.7307
8	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	8	15.2108	75.7312
9	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	9	15.2098	75.7321

10	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	10	15.2214	75.7398
11	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	11	15.2083	75.734
12	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	12	15.197	75.7363
13	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	13	15.1973	75.7366
14	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	14	15.2206	75.7399
15	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15	15.2193	75.7398
16	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	16	15.2184	75.7394
17	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	17	15.2177	75.7389
18	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	18	15.2167	75.7388
19	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	19	15.2141	75.7384
20	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	20	15.2145	75.7387
21	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	21	15.2136	75.7383
22	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	22	15.2126	75.7389

23	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	23	15.2117	75.739
24	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	24	15.2076	75.7346
25	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	25	15.2067	75.7343
26	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	26	15.7058	75.7341
27	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	27	15.2047	75.7328
28	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	28	15.2037	75.733
29	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	29	15.2029	75.7338

Proposed wind power project has evolved as a result of the policies of Government of India and Government of Karnataka, 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 generated electricity is supplied to Electricity Distribution Company (DISCOM), Bangalore Electricity Supply Company Limited. Addressing the energy demand-supply gap in Karnataka and supporting the region's sustainable growth. A Power Purchase Agreement has been signed between Enercon Wind Farms and Bangalore Electricity Supply Company Limited. The project activity involves 29 numbers wind energy converters (WECs) of Enercon make (4 turbines of 800 KW, E48 and 25 turbines of 600 KW, E40) with internal electrical lines connecting the project activity with local evacuation facility, set up by WWIL in India. These wind turbines convert wind energy into electricity using synchronous generators, which are manufactured at WWIL's is spread across Gadag district. The 29 WECs of the project activity installed in Gadag district is connected to Dambal 66/11 kV KPTCL sub-station. The internal electrical lines connecting the Project with local evacuation facility. The WECs generates 3-phase power at 400V, which is stepped up to 33 KV. The Project can operate in the frequency range of 47.5–51.5 Hz and in the voltage range of 400 V ± 12.5%.

Plant using advanced vacuum impregnation technology for better insulation and durability. The turbines have rotor blades, a nacelle with the generator and control systems, a tower, and a concrete foundation. The electricity generated is fed into the Indian grid through transformers. Without this project, the same amount of electricity would come from fossil fuel-based power plants, which is the baseline scenario. This renewable energy project reduces emissions and supports local manufacturing through technology transfer.

The average lifetime of the WEG is around 20 years as per the industry standards.
As per DPR plant load factor is of 20%. 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 29 Wind turbines of 4*800kW and 25*600 KW manufactured and supplied by Enercon. This project generates 18.2 MW power which is supplied to the state electricity utility delivered by the Project Proponent. 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 in UCR is 04 years, 05 months, 30 days in which total estimated electricity generation is 33,481 MWh and the total GHG emission reduction estimated is 27,260 tCO_2e annually.
The electricity generation for the current monitoring period is 166,149 MWh and total GHG emission reduction is 144,395 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 “Enercon Wind Farms in Karnataka Bundled Project”, the information and data presented in the MR version 2.0 dated 27/06/2025 is in line with the Project Concept Note Version 2.0 date 03/03/2025 and meets all relevant requirements of the UCR for UCR project activities. The UCR project activity

correctly applies the methodology "ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0" 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	01/07/2020
End date of monitoring period	31/12/2024
Emission reductions achieved	144,395 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/ Lead Verifier	Mahajan	Swati	Enviance Services Private Limited	Yes	Yes	Yes
2.	Validator-Verifier/Technical Expert	Singh	Ritu	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: 08/07/2025			
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 g) To confirm that the operational and data collection procedures can be implemented in accordance with the Monitoring Plan	Gadag District, Karnataka State in India.	08/07/2025

	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.	Savi	Raghavendra	Wind World Wind Farms Pvt. Ltd.	08/07/2025	Project Implementation, Monitoring plan, Project Boundary, Eligibility criteria, Host country requirements, Emission reduction calculations Project implementation, monitoring, Local stakeholder consultation
2.	Mahanta	Sarashi	Viviid emissions reductions universal private Ltd.		
3.	Darne	Minal			
4.	P.G.	Raghavendra	Local Stakeholders		
5.	V.P.	Prakash			
6.	M.C.	Maruthesha			

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	01	-	-
General description of project activity	02		-
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	01	-	-
- Project boundary, sources and GHGs	-	-	-
- Baseline scenario	-	-	-
- Estimation of emission reductions or net anthropogenic removals	-	01	-

- Monitoring Report	-	02	-
Start date, crediting period and duration	-	01	-
Environmental impacts	-	-	-
Project Owner- Identification and communication	-	-	-
Others (please specify)	-	-	-
Total	**04**	**04**	-

Project Verification findings

Identification and eligibility of project type

Means of Project Verification	The project has an installation of an 18.2 MW (29 Wind turbines of 4*800 KW and 25*600 KW) wind power capacity and hence it qualifies as a large-scale project. This is confirmed based on the commissioning certificates and technical specifications. Since the project is a large-scale project, it has applied approved CDM large scale methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0. 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	CL 03 was raised and closed successfully. More information presented in the appendix below.
Conclusion	The UCR-approved format is used for description and the project meets the requirement of the UCR verification standard and UCR project standard. UCR project communication agreement was submitted to the verifier and the same has been verified. Methodology referenced and applied appropriately describing the project type. The eligibility of the project aggregator is verified using the UCR communication agreement, project correctly applies the verification standard, UCR project standard, and UCR regulations. The project activity is overall meeting the requirements of the UCR Verification standard and UCR project standard.

General description of project activity

Means of Project Verification

The project activity involves the operation of a 18.2 MW (29 Wind turbines of 4*800 KW and 25*600 KW) large-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 18.2 MW (Gadag District, Karnataka State in 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 Gadag District of Karnataka State in India. The approximate geo-coordinates of the project locations are mentioned below.

Details of Latitude &Longitude for the project site: -

Sl no	Name of Customer	Individual Capacity (MW)	Site	R.R. NO.	Location No	Latitude (Decimal)	Longitude (Decimal)
1	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	1	15.1967	75.7375
2	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	2	15.1956	75.7382
3	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	3	15.1948	75.7385
4	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	4	15.1938	75.7386
5	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	5	15.1931	75.7379
6	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	6	15.2135	75.7255
7	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	7	15.2116	75.7307

	8	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	8	15.2108	75.7312
	9	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	9	15.2098	75.7321
	10	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	10	15.2214	75.7398
	11	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	11	15.2083	75.734
	12	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	12	15.197	75.7363
	13	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	13	15.1973	75.7366
	14	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	14	15.2206	75.7399
	15	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	15	15.2193	75.7398
	16	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	16	15.2184	75.7394
	17	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	17	15.2177	75.7389
	18	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	18	15.2167	75.7388
	19	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	19	15.2141	75.7384

20	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	20	15.2145	75.7387
21	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	21	15.2136	75.7383
22	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	22	15.2126	75.7389
23	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	23	15.2117	75.739
24	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	24	15.2076	75.7346
25	Wind World Wind Farms (Krishna) Ltd	0.6	Gadag	EWKL H-6	25	15.2067	75.7343
26	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	26	15.7058	75.7341
27	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	27	15.2047	75.7328
28	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	28	15.2037	75.733
29	Wind World Wind Farms (Karnataka) Ltd	0.8	Gadag	EWKL H-7	29	15.2029	75.7338

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 dominated by 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.
Findings	CL 01 and CL 02 were raised and closed successfully. More information presented in the appendix below.
Conclusion	The description of the project activity is verified to be true based on the review of PCN, MR, Commissioning Certificate and power purchase agreement.

Application and selection of methodologies and standardized baselines

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

Means of Project Verification	The project has taken the reference of CDM methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0. CDM website is referred to check the latest version of the methodology. For the applicability mentioned in the PCN and MR, technical Specification, and commissioning certificate.
Findings	No findings raised.
Conclusion	The methodology applied is appropriately meeting the requirements of UCR and its standardized baseline. The methodology version is correct and valid. The referenced methodology is applicable to project activity.

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

Means of Project Verification	The documents reviewed are CDM methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0, UCR Program standard, and UCR Verification Standard.
Findings	CL 04 was raised and closed successfully. More information presented in the appendix below.
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 version 2.0 and MR version 2.0. The selected CDM methodology for the project activity is applicable.

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

Means of Project Verification	Project owner has considered project boundary as per applicable methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0, “the spatial extent of this project activity includes the project site and all the power plants connected physically to the electricity system (grid) that the power project 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 ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources - Version 22.0 the baseline scenario is as following: The baseline scenario is that if the project activity is the installation of a Greenfield power plant, the baseline scenario is 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 to 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 ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0 As per the CDM approved ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0 paragraph 57, encompass solely the CO2 emissions stemming from electricity generation in power plants displaced by the project activity. The methodology operates on the assumption that any electricity generation exceeding baseline levels would have originated from established grid-connected power

	plants and the integration 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.[3] 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. https://medium.com/@UniversalCarbonRegistry/ucr-cou-standard-update-2024-vintage-ucr-indian-grid-emission-factor-announced-ddb790cdc603 **Project emissions**: Regarding project emissions, ACM0002 version 22.0 specifies that only emissions related to fossil fuel combustion, emissions from the operation of geothermal power plants due to the release of non-condensable gases, and emissions from water reservoirs of hydroelectric plants should be taken into account. Since the project involves a wind power project, emissions from renewable energy plants are negligible $PE_y = 0$. Since wind power is a GHG emission free source of energy project emission considered as Zero for the project activity. **Leakage Emissions:** Leakage, as outlined in ACM0002 version 22.0, para 5.6, is considered to be zero as there is no transfer of energy-generating equipment in the project activity Hence (LEy = 0). **Emission reductions:** As per approved ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0, emission reduction is estimated as difference between the baseline emission and project emission after factoring into leakage.

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

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 earliest commissioning date of the Project is 15/03/2005 when the first installation of the wind turbine was done and the last commissioning date is 26/03/2005.
The project activity was registered under Clean Development Mechanism (CDM) project with registration number 1286. The crediting period of this project under CDM was 01/07/2010 – 30/06/2020.
The start date of the crediting period under UCR is considered from 01/07/2020.

For the ease of the calculation, duration of the crediting period in UCR is started from 01/07/2020 to 31/12/2024.

The estimated emission reductions are 27,260 CoUs/yr (27,260 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	33480.72	30132.65	0.00	0.00	30132.65	0.9
Year 2	33480.72	30132.65	0.00	0.00	30132.65	0.9
Year 3	33480.72	30132.65	0.00	0.00	30132.65	0.9
Year 4	33480.72	30132.65	0.00	0.00	30132.65	0.9
Year 5	33480.72	25344.91	0.00	0.00	25344.91	0.757
Year 6	33480.72	25344.91	0.00	0.00	25344.91	0.757
Year 7	33480.72	25344.91	0.00	0.00	25344.91	0.757
Year 8	33480.72	25344.91	0.00	0.00	25344.91	0.757
Year 9	33480.72	25344.91	0.00	0.00	25344.91	0.757
Year 10	33480.72	25344.91	0.00	0.00	25344.91	0.757
Total Emission reduction	**334807**	**272600**	**0**	**0**	**272600**	
Average Emission Reduction	33481	27260	0	0	27,260	

The actual emission reduction achieved during the first CoU's period (01/07/2020 to 31/12/2024) as per the Project Activity:

Actual Total baseline emission reductions (BEy)= 144,395 CoUs (144,395 tCO2eq)

	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 1	22466	0.9	20220	0	0	20220
	Year 2	37267	0.9	33540	0	0	33540
	Year 3	35592	0.9	32033	0	0	32033
	Year 4	34887	0.9	31399	0	0	31399
	Year 5	35936	0.757	27203	0	0	27203
	Total	**166149**					**144395**
Findings	CAR 04 was raised and closed successfully. More information presented in the appendix below.						
Conclusion	In summary, the calculation of emission reductions was correctly demonstrated by the PP according to the methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0. 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 Project Verification

Parameters determined- Ex-ante

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

The baseline emission factor ($EF_{grid, y}$) of the project is reported to be determined ex-ante and would remain fixed for the crediting period. A "grid emission factor" refers to a 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 ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0, 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.

Meter Details:

Site (Feeder Level)	Main Meter	Check Meter
15 MW	23016861	23016862
3.2 MW	23016865	23016866

Company Name	Plant Capacity (MW)	Location	Commissioning Date	Calibration date	Calibration validity	Calibration delay
Enercon Wind Farms in Karnataka Bundled Project	**18.2 MW**	Krishna (15MW)	15-03-2005	23-09-2024	22-09-2029	01-07-2020 to 22-08-2024
		Karnataka (3.2MW)	26-03-2005	23-09-2024	22-09-2029	01-07-2020 to 22-08-2024

There was a calibration delay during the **(01-07-2020 to 22-08-2024)** for 15MW & **(01-07-2020 to 22-08-2024)** for 3.2 MW in this monitoring period. To address this, an error factor has been applied to the net export values for the delay period since the meters were not calibrated as per the required frequency. According to VVS guidelines, an error factor of "±0.2%" should be applied separately to both export and import values. A conservative approach has been adopted. To account for potential errors in both export and import, a cumulative error factor of "-0.4%" has been applied to the net electricity generation for the delay period.
Calibration of meters was done as per the CEA regulations.

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.

Findings	CAR 02 and CAR 03 were raised and closed successfully. More information presented in the appendix below.
Conclusion	The verification team is convinced of compliance of the monitoring plan with the requirements of the monitoring methodology ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0. 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 in UCR as 01/07/2020. The crediting period is chosen as 01/07/2020 to 31/12/2024 and the crediting period for the current monitoring period is 01/07/2020 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 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 an 18.2 MW of large-scale wind power project located at Gadag District of Karnataka State in 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 ACM0002-Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0.

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 144,395 tCO2eq during the monitoring period i.e. from 01/07/2020 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
ACM	Approved Consolidated Methodology
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** is a seasoned Environment and Climate Change professional with over 19 years of experience in Climate Change Mitigation & Adaptation, Environmental Due Diligence, Disaster Risk Reduction, Climate Finance, and capacity building. As the Managing Director of Enviance Services Pvt. Ltd., Pankaj Kumar leads a validation and verification body for GHG projects and also providing consultancy services in various areas including Climate Adaptation, Mitigation, Sustainability, and more. Previously, Pankaj Kumar served as a Climate Adaptation Expert with Deloitte Touche Tohmatsu India LLP, contributing to the World Bank project on Asset Management, Institutional Effectiveness, and Road Safety in Bihar. Mr. Pankaj also led the Bihar team for the South Asia Climate Proofing and Growth Development (CPGD) – Climate Change Innovation Programme (CCIP), supported by DFID, which aimed to integrate climate change resilience into planning and budgeting across South Asia. With a strong background in environmental projects, Pankaj Kumar has worked with IL&FS Infrastructure Development Corporation and BUIDCO (Bihar Urban Infrastructure Development Corporation) as an Environmental Specialist for WB & ADB funded projects. Additionally, Pankaj has extensive experience in GHG project validation and verification, having led over 300 projects globally while with UNFCCC accredited DoEs and as an external expert for Gold Standard and Global Carbon Council. Mr. Pankaj is an accredited Lead Auditor, Validator, Verifier, and Technical Expert for multiple sectoral scopes by UNFCCC DoE and is on the roster of WASH experts of UNICEF. Mr. Pankaj's expertise spans across various standards including CDM, Verified Carbon Standard, Gold Standard, Global Carbon Council, Natural Forest Standard, Riverse and Social Carbon Standard.

❖ **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.

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 version 11.0, May 2025	https://www.ucarbonregistry.io/Document?projectCategoryId=1	Universal Carbon Registry
13	CDM	CDM approved methodology- ACM0002- Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0.	https://cdm.unfccc.int/methodologies/DB/XB1TX7TAZ6SLWM9B7BC67THHVD16JV	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. Swati Mahajan**	**Document Reference**	**MR**
Finding Description		**Date:**	**18/07/2025**
1. 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. 2. PP shall submit the commissioning certificate of the project activity. 3. PP shall submit detailed project report. 4. PP shall submit the PPA of the project activity.			
Client/Responsible Party/Project Proponent Response		**Date:**	**06/08/2025**
1. PP has submitted the no double counting for current monitoring period and for project activity has neither been registered nor seeking registration under any other GHG programs. 2. PP has submitted the commissioning certificate of the project activity. 3. PP wants to clarify that the project has been previously Verified by CDM. Hence, all the technical parameters are true to our knowledge. 4. PP has submitted the PPA of the project activity.			
Validation/Verification Team Assessment		**Date:**	**18/08/2025**
1. PP has submitted declaration for no double counting which is found acceptable by the assessment team. 2. The Project Proponent (PP) has submitted the commissioning certificate for the project activity, and the capacity specified in the Project Concept Note (PCN) and Monitoring Report (MR) aligns with the details provided in the submitted certificate. 3. The clarification provided by the PP is found acceptable by the assessment team. 4. PP has submitted Power purchase agreement of the project which confirms that the project activity is supplying electricity to Bangalore Electricity Supply Company Limited. CL is Closed.			

Classification	☐ **CAR** ☒ **CL/CR** ☐ **FAR**	**Number:**	**02**
Raised by:	**Ms. Swati Mahajan**	**Document Reference**	**MR**
Finding Description		**Date:**	**18/07/2025**
PP shall submit the names of the local stakeholders.			
Client/Responsible Party/Project Proponent Response		**Date:**	**06/08/2025**
PP has submitted the Names of local stakeholders.			
Validation/Verification Team Assessment		**Date:**	**18/08/2025**
PP has submitted the list of the stakeholder. Hence Cl is closed.			

Classification	☐ CAR ☒ CL/CR ☐ FAR	Number:	03
Raised by:	Ms. Swati Mahajan	Document Reference	MR
Finding Description		Date:	18/07/2025
As mentioned in MR, the project activity has already been registered under the CDM. PP shall provide the relevant documentation with a supporting link included as a footnote in MR and PCN.			
Client/Responsible Party/Project Proponent Response		Date:	06/08/2025
PP has mentioned the link as a footnote in the said sections.			
Validation/Verification Team Assessment		Date:	18/08/2025
PP has attached the link in the footnote and the link provided is acceptable by the assessment team. CL is Closed.			

Classification	☐ CAR ☒ CL/CR ☐ FAR	Number:	04
Raised by:	Ms. Swati Mahajan	Document Reference	MR
Finding Description		Date:	18/07/2025
The technical specifications of the turbines mentioned in the Monitoring Report appear to be inconsistent with those provided in the supporting document linked in the footnote. Kindly clarify which specifications are accurate and ensure alignment across all referenced materials.			
Client/Responsible Party/Project Proponent Response		Date:	06/08/2025
PP has corrected the parameters as mentioned in the link.			
Validation/Verification Team Assessment		Date:	18/08/2025
PP has revised the technical specification of the WTGs to make it consistent with the supporting documents. CL is Closed.			

Table 2. CARs from this Project Verification

Classification	☒ CAR ☐ CL/CR ☐ FAR	Number:	01
Raised by:	Ms. Swati Mahajan	Document Reference	MR
Finding Description		Date:	18/07/2025
The start date of the crediting period in CDM is inconsistent in PCN. Correction sought.			
Client/Responsible Party/Project Proponent Response		Date:	06/08/2025
PP has corrected the crediting period in CDM is inconsistent in PCN.			
Validation/Verification Team Assessment		Date:	18/08/2025
The start date of the crediting period in CDM PDD is 25/10/2007 and end date of the crediting period is 24/10/2017 whereas crediting period in CDM MR is 01/07/2010 to 30/06/2020. PP to clarify the reason behind this discrepancy and mention correct crediting period. CAR is Open			
Client/Responsible Party/Project Proponent Response		Date:	23/08/2025

A.7. Crediting period of the project activity and related information (start date and choice of crediting period):

>>

The length of the Crediting period of the project activity as per registered PDD is 10 years (Fixed). The crediting period start date is 1st July 2010 and length of crediting period is 10 years (from 1st July 2010 to 30th June 2020).

PP wants to clarify that The Project start date is prior to the date of validation of the PDD, After Validation (site visit) period modified to 01/07/2010 to 30/06/2020. PP has considered the crediting period, PP has mentioned the CDM crediting period as mentioned as view page, which is taken as fixed 10 year.

Validation/Verification Team Assessment	**Date:**	**26/08/2025**
The clarification provided by the Project Participant (PP) is verified. It is confirmed that the project start date precedes the date of validation of the Project Design Document (PDD), which is permissible under CDM guidelines. The modified validation period, post site visit, from 01/07/2010 to 30/06/2020 has been duly considered. The PP has selected a fixed crediting period of 10 years, as reflected on the CDM view page. CAR is closed.		

Classification	☒ **CAR** ☐ **CL/CR** ☐ **FAR**	**Number:**	**02**
Raised by:	**Ms. Swati Mahajan**	**Document Reference**	**PCN**
Finding Description		**Date:**	**18/07/2025**
Under section B.8. of PCN, Egy,net parameter is inconsistent. Corrective action sought.			
Client/Responsible Party/Project Proponent Response		**Date:**	**06/08/2025**
Pp has corrected the parameter.			
Validation/Verification Team Assessment		**Date:**	**18/08/2025**
PP to replace $EGpj_{,y}$ net from $EG_{PJ,y}$ in both report PCN and Monitoring report. Hence, CAR is open.			
Client/Responsible Party/Project Proponent Response		**Date:**	**23/08/2025**
PP has corrected the parameter.			
Validation/Verification Team Assessment		**Date:**	**26/08/2025**
PP has replaced $EGpj_{,y}$ net from $EG_{PJ,y}$ in both report PCN and Monitoring report. During assessment it was verified in MR version 2.0 and PCN version 2.0 Hence, CAR is closed.			

Classification	☒ **CAR** ☐ **CL/CR** ☐ **FAR**	**Number:**	**03**
Raised by:	**Ms. Swati Mahajan**	**Document Reference**	**MR**
Finding Description		**Date:**	**18/07/2025**
1. In the MR, the term 'estimated' has been used in place of ‘actual’. Corrective action sought. 2. Meter details mentioned in PCN are inconsistent with the details mentioned in MR. Correction sought.			
Client/Responsible Party/Project Proponent Response		**Date:**	**06/08/2025**
1. PP has corrected the sentence and removed the term “annually”. 2. Meter details are corrected in both PCN & MR.			

Validation/Verification Team Assessment	Date:	18/08/2025
1. PP has removed the term ‘estimated’ and also removed “annually’. Hence this part of the comment is closed. 2. The project participant has revised the meter details in both the Project Concept Note and the Monitoring Report, ensuring consistency across the two documents. CAR is closed.		

Classification	☒ CAR ☐ CL/CR ☐ FAR	Number:	04
Raised by:	Ms. Swati Mahajan	Document reference	MR
Finding Description		Date:	18/07/2025
1. Few JMR readings are inconsistent with the submitted supporting documents. Correction sought. 2. PP shall revise the energy generation and emission reduction value in MR as per the revised excel sheet.			
Client/Responsible Party/Project Proponent Response		Date:	06/08/2025
1. PP has corrected the values in ER sheet. 2. PP has revised all the actual values in MR.			
Validation/Verification Team Assessment		Date:	18/08/2025
1. PP has corrected all the JMR readings. During assessment it was verified in updated ER sheet and found to consistent with the submitted invoices. 2. PP has corrected all actual values across the Monitoring Report. Hence, CAR 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~~