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Verification Report for

UCR ID No. 365

DESCRIPTION	DATA
Project Owner Name :	**eClouds Energy LLP,**
Project Location :	SF.NO.708(P),
	Village: Mayamankurichy,
	Taluka: Alangulam
	District: Tirunelveli,
	State: Tamil Nadu, India
Scale of the project activity	Small Scale
Date	21st Mar -2024

DESCRIPTION	DATA
Verification Firm:	**Limbaja Energy**
	2 Shrijinagar, Arihantnagar Road,
	Nr. Aashapura cottages,
	Bhuj-Kachchh-370001
	M : 9714253756
	limbajaenergy@gmail.com
Team Details:	Mr. Jayprakash Jethi
	Mr. Tamiz Rayma

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COVER PAGE Project Verification Report Form (VR)	
BASIC INFORMATION	
Name of approved UCR Project Verifier / Reference No.	**Limbaja Energy**
Type of Accreditation	☐ CDM or other GHG Accreditation ISO 14065 Accreditation ☒ UCR Approved
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	01 Energy industries (Renewable/Non-renewable sources)
Validity of UCR approval of Verifier	Aug-2022 onwards
Completion date of this VR	21st Mar 2024
Title of the project activity	250 KW Wind Power Plant by eClouds Energy LLP, Tirunelveli, Tamil Nadu. India
Project reference no.	365

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(as provided by UCR Program)	
Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners, example aggregator.)	eClouds Energy LLP – Coimbatore 641002, Tamil Nadu India
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	**eClouds Energy LLP - Tamilnadu** nocarbon@ecloudsenergy.com. 73974 92517
Country where project is located	India
Applied methodologies (approved methodologies by UCR Standard used)	**AMS-I.D.:** "Grid connected renewable electricity generation version-18"
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

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	☒ 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 ***Limbaja Energy*** certifies the following with respect to the UCR Project Activity "**250 KW Wind Power Plant by eClouds Energy LLP, Tirunelveli, Tamil Nadu. India**" ☒ The Project Owner has correctly described the Project Activity in the Project Concept Note Version 2.0 (dated 06th March 2024) including the applicability of the approved methodology **AMS-I.D.:** Grid connected renewable electricity generation version-18 & UCR

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	Standard for Emission Factor 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 **[*1,177*]** TCO_{2e}, as indicated in the PCN Version 2.0, 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

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	Program to register the Project activity with above mentioned labels.
Project Verification Report, reference number and date of approval	Verification Report UCR Project ID: 365
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	Limbaja Energy   Jayprakash Jethi (Lead Verifier and Energy Auditor) 21/03/2024  Tamiz Rayma (Energy Analyst and Verifier) 21/03/2024

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PROJECT VERIFICATION REPORT

A. Executive Summary

The verification work has been contracted by project owner EClouds Energy LLP to perform an independent verification of its UCR project titled "250 KW Wind Power Plant by eClouds Energy LLP, Tirunelveli, Tamil Nadu. India **UCR approved project ID:365**, to establish number of CoUs generated by project over the crediting period from 01/09/2019 to 31/12/2023 (both days included).

Verification for the period: 01/09/2019 to 31/12/2023

In my opinion, the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report (MR), submitted to me is found to be correct and in line with the UCR guidelines.

The GHG emission reductions were calculated on the basis of **AMS-I.D.:** Grid connected renewable electricity generation version-18 & UCR Standard for Emission Factor

The verification was done remotely by way of video calls, phone calls and submission of documents for verification through emails as per UCR guidelines.

I am able to certify that the emission reductions from the **250 KW Wind Power Plant by eClouds Energy LLP, Tirunelveli, Tamil Nadu. India** (UCR ID – 365) for the period 01/09/2019 to 31/12/2023 amounts to 1,177CoUs (1,177tCO2e).

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A.1 Scope of Verification

The scope of the verification is the independent, objective review and ex-post determination of the monitored reductions in GHG emission by the project activity.

1) The quality of data management and records of underlying data;
2) Completeness and accuracy of calculations and baseline emission reports;
3) Proper inclusion and documentation of all project locations,
4) Correct application of offset rules for filling Baseline Period data gaps;
5) Other data, methods and procedures deemed necessary to establish the accuracy of emission reductions.
6) Agreement stating Assurance to avoid double accounting for the project to be verified, along with required proof.

The project is assessed against the requirements of the UCR programme verification Guidance Document, UCR Standard, UCR Programme Manual and related rules and guidelines. Due professional care has been exercised and ethical conduct has been followed by the assessment team during the verification process. The verification report is a fair presentation of the verification activity. The validation of project is not part of present assignment and projects deemed validated post registration by UCR.

A.2 Description of the Project

As described in the Project Concept Note Version 2.0 (PCN), the project activity involves Wind Power project of installed aggregated capacity of 250 KW Wind Power Plant by eClouds Energy LLP, SF.NO.708(P), Mayamankurichy village, Alangulam Taluk, Tirunelveli, Tamil Nadu. India at Latitude: 8. 8940420 N Longitude: 77. 4865790 E

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The details of the project activity are verified with the project report copy submitted for verification.

As mentioned in the Monitoring Report and Emission Reduction Calculation sheet submitted for the verification, This project activity involves generation of grid connected electricity from the construction and operation of a new cogeneration power-based project for selling it to National and Regional grid. The project activity has installed capacity of **250 kW** which will qualify for a Small-scale project activity under Type-I of the small - Scale methodology. The project status is corresponding to the methodology **AMS-I.D.:** Grid connected renewable electricity generation version-18.

Verified total emission reductions achieved through the project activity during the monitoring period is summarised below:

Summary of the Project Activity	
Start date of this Monitoring Period	01/09/2019
Carbon credits claimed up to	31/12/2023
Total Carbon Credit (tCO2eq)	1,177
Project Emission	0
Leakage Emission	0

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. Project Verification team, technical reviewer and approver

SN	Role	Last name	First name	Affiliation	Involvement in		
					Document review	Off-Site inspection	Interviews
1	Lead Verifier and Energy Auditor	Jethi	Jayprakash	Limbaja Energy (UCR authorised	Yes	No	Yes
2	Energy Analyst and Verifier	Rayma	Tamiz	Limbaja Energy	Yes	No	No

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C. Means of Project Verification

C.1 Desk/document review

The project documents submitted to UCR approved verifier Limbaja Energy was reviewed and validated by the lead verifier. The documents reviewed includes verification of legal status of individual project owner for consistency, project related documents like installation and commissioning of equipment used in project activity, monitoring related parameters including measuring instruments and their calibration records for the crediting period etc.

The PCN Version 2.0 is made available to verifier post approval by UCR which is considered as validated documents and the content of validated PCN Version 2.0 are considered as record wherever required. Further the communication agreement made between project owner and project aggregator is document of UCR registry hence the project aggregator is treated as authorized representative of project owner. All the documents submitted by project aggregator to verifier is treated as documents submission on behalf of project owner.

The list of submitted document is available in subsequent section of this verification report under section “Document reviewed or referenced”.

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C.2 Off-site inspection: Not Applicable

Date of off site inspection: DD/MM/YYYY to DD/MM/YYYY			
No.	**Activity performed Off-Site**	**Site location**	**Date**
1.			
…			

C.3 Interviews

No.	**Interview**			**Date**	**Subject**
	Last name	**First name**	**Affiliation**		
1.	Govindarajan	Shamuthira Hari	Business Development Executive	20/03/2023	Meter calibration, Double Counting and project overview

C.4 Sampling approach: Not Applicable

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C.5 Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

SN	Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
	Green House Gas (GHG)			
1	Identification and Eligibility of project type	Nil	Nil	Nil
2	General description of project activity	Nil	Nil	Nil
3	Application and selection of methodologies and standardized baselines	-	-	-
	i) Application of methodologies and standardized baselines		Nil	Nil
	ii) Deviation from methodology and/or methodological tool	Nil	Nil	Nil
	iii) Clarification on applicability of methodology, tool and/or standardized baseline	Nil	Nil	Nil
	iv) Project boundary, sources and GHGs	Nil	Nil	Nil
	v) Baseline scenario	Nil	Nil	Nil
	vi) Estimation of emission reductions or net anthropogenic removals	Nil	Nil	Nil
	vii) Monitoring Report	Nil	Nil	Nil
4	Start date, crediting period and duration	Nil	Nil	Nil
5	Environmental impacts	Nil	Nil	Nil
6	Project Owner- Identification and communication	Nil	Nil	Nil
7	Others (please specify)	Nil	Nil	Nil
	Total	Nil	Nil	Nil

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D Project Finding

D.1 Identification and eligibility of project type

SN	Particular	Remarks
1	**Means of Project Verification**	This Project is taken reference of CDM Methodology AMS-I.D.: "Grid connected renewable electricity" Version 18.0 Wind Energy Projects.
2	**Findings**	1) Project activity is described through UCR approved PCN Version 2.0
3	**Conclusion**	The UCR approved format is used for description and project meets the requirement of UCR verification standard and UCR project standard. UCR project communication agreement submitted to verifier and the same has been verified. Methodology referenced and applied appropriately describing the project type. The eligibility of project aggregator is verified using UCR communication agreement, Project correctly applies the verification standard, UCR project standard and UCR regulations. The project activity is overall meeting the requirements of UCR Verification standard and UCR project standard.

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D.2 General description of project activity

SN	Particular	Remarks
1	**Means of Project Verification**	The project activity involves the setting up of a Wind Turbine Generator Project. The commissioning certificate is referred. The project capacity was verified through purchase order invoices of turbine. The power evacuation at the Substation is confirmed by electricity generation sheet.
2	**Findings**	1. Project Commissioning date is mentioned in the commissioning certificate. 2. Wind Turbine Generator Capacity is same as mentioned technical specifications. 3. Project implementation and sale of energy abide the Wheeling Agreement.
3	**Conclusion**	The description of the project activity is verified to be true based on the review of PCN Version 2.0, MR, Commissioning Certificate, Purchase Order Copies and Technical Specification sheet.

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D.3 Application and selection of methodologies and standardized baselines

D.3.1 Application of methodology and standardized baselines

SN	Particular	Remarks
1	**Means of Project Verification**	This Project is taken reference of CDM Methodology AMS-I.D.: "Grid connected renewable electricity" Version 18.0. For the applicability mentioned in the PCN Version 2.0 and MR, Commissioning certificate and WA documents were referred.
2	**Findings**	The methodology applied is applicable for the project activity.
3	**Conclusion**	Methodology application is appropriate meeting the requirements of UCR and its standardized baseline. The methodology version is correct and valid. Referenced methodology is applicable to project activity.

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D.3.2 Clarification on applicability of methodology, tool and/or standardized baseline

SN	Particular	Remarks
1	**Means of Project Verification**	The documents reviewed CDM Methodology AMS-I.D.: "Grid connected renewable electricity" Version 18.0. UCR Program standard, and UCR Verification Standard.
2	**Findings**	Emission factor calculated using the methodology is higher than UCR standard recommends.
3	**Conclusion**	The emission factor considered for the calculation of the emission reductions is verified with the UCR Program Standard. The total installed electrical energy generation capacity of the project equipment does not exceed 15 MW thus meeting the requirement of small-scale project.

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D.3.3 Project boundary, sources and GHGs

SN	Particular	Remarks
1	**Means of Project Verification**	Project boundary is in line with the applied methodology, and the sources of GHGs etc.
2	**Findings**	Nil
3	**Conclusion**	Project boundary is in line with the applied methodology.

D.3.4 Baseline scenario

SN	Particular	Remarks
1	**Means of Project Verification**	PCN Version 2.0 Section B.5 and General Project Eligibility Criteria and Guidance, UCR Standard.
2	**Findings**	Declared information is correct and verified.
3	**Conclusion**	Baseline scenario is appropriately described. The conservative value for emission considered. The baseline scenario is in accordance with UCR project verification standard and UCR project standard.

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D.3.5 Estimation of emission reductions or net anthropogenic removal

SN	Particular	Remarks
1	**Means of Project Verification**	Export Meter Reading Reports, and General Project Eligibility Criteria and Guidance, UCR Standard
2	**Findings**	None
3	**Conclusion**	Emission reductions are correctly calculated. The instruments are calibrated and hence the emission reduction is reported correctly and meets the requirements of UCR verification standard and UCR project standard.

D.3.6 Monitoring Report

SN	Particular	Remarks
1	**Means of Project Verification**	Meter Calibration reports, Export Meter Reading Reports, and General Project Eligibility Criteria and Guidance, UCR Standard,
2	**Findings**	None
3	**Conclusion**	Meter testing reports are provided Meter details are mentioned below. Energy meters installed at the site: Customer Name.: M/s. EClouds Energy LLP, **Main Meter:**

Make	Secure
Serial No.	TNG63802
Calibration Date	08-Feb-24

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		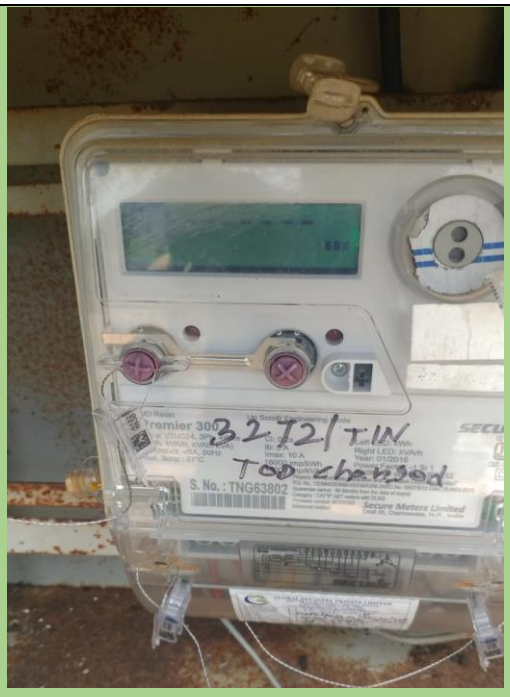 As per Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2019 clause 14 (i)-b "All Interface Meters shall be tested on-site using accredited test laboratory for routine accuracy testing at least once in five years and recalibrated if required. The Calibration reports are verified with available serial number of meters. The errors are within permissible limits. Monitoring parameter as reported through MR adequately represents the parameters relevant to emission reduction calculation. The number of CoUs generation is calculated based on this accurately reported data. The calculation was done using excel sheet where all the parameters reported. The emission factor for electricity is as per UCR standard for. Monitoring and emission reduction calculations are correctly calculated and reported. The monitoring report meets the requirements of UCR project verification requirements

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D.4 Start date, crediting period and duration

SN	Particular	Remarks
1	**Means of Project Verification**	PCN Version 2.0 and MR, Commissioning certificate, Detailed Project Report and WA documents were referred.
2	**Findings**	None
3	**Conclusion**	The start date, crediting period and project duration reported correctly and this meets the requirements of UCR verification standard and UCR project standard.

D.5 Positive Environmental impacts

SN	Particular	Remarks
1	**Means of Project Verification**	PCN Version 2.0
2	**Findings**	Declared information is correct and verified.
3	**Conclusion**	The positive environmental impact meets the requirement of UCR verification standard and UCR project standard

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D.6 Project Owner- Identification and communication

SN	Particular	Remarks
1	**Means of Project Verification**	PCN Vesion 2.0, MR, Commissioning certificate, Wheeling and Banking Agreement.
2	**Findings**	Declared information is correct and verified.
3	**Conclusion**	Equipment purchase order and commission verified. Also, legal document like Power Purchase Agreement clearly establishes the project owner. The identification and communication correctly meet the requirement of project verification and UCR project standard.

D.7 Positive Social Impact

SN	Particular	Remarks
1	**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.
2	**Findings**	None
3	**Conclusion**	Project has overall positive social impact.

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D.8 Sustainable development aspects (if any)

SN	Particular	Remarks
1	**Means of Project Verification**	Not Applicable
2	**Findings**	None
3	**Conclusion**	-

E. Internal quality control:

- 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 aggregator or project owner directly or indirectly.
- Verification team consists of experience personnel.
- Technical review is performed by experienced and independent person

F. Project Verification Opinion

Considering the above-mentioned verification conducted on the basis of UCR Protocol, which draws reference from UCR Protocol Standard Baseline, CDM UNFCCC Methodology AMS-I.D.: Grid connected renewable electricity generation version-18 & UCR Standard for Emission Factor and the documents submitted during the verification including the data, Project Concept Note (PCN Version 2.0) / Monitoring Report (MR), I am able to certify that the emission reductions from the 250 KW Wind Power Plant by eClouds Energy LLP, Tirunelveli, Tamil Nadu. India (UCR ID – 365) for the period 01/09/2019 to 31/12/2023 amounts to 1,177CoUs (1,177tCO2e).

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Appendix 1. Abbreviations

SN	Abbreviations	Full texts
1	UCR	Universal Carbon Registry
2	CPCB	Central Pollution Control Board
3	PGCIL	Power Grid Corporation of India Ltd.
4	TNEB	Tamil Nadu Electricity Board
5	TANGEDCO	Tamil Nadu Generation and Distribution Corporation
6	GEPC	Global EPC India Pvt. Ltd.
7	MR	Monitoring report
8	PCN	Project Concept Note
9	VR	Verification Report
10	VS	Verification Statement
11	DAA	Avoidance of Double Accounting Agreement
12	COD	Commercial Operation Date
13	PP/PO	Project Proponent / Project Owner
14	PA	Project Aggregator
15	PPA	Power Purchase Agreement
16	WA	Wheeling Agreement
17	ER	Emission Reduction
18	COUs	Carbon offset Units.
19	tCO2e	Tons of Carbon Dioxide Equivalent
20	kWh	Kilo-Watt Hour
21	mWh	Mega-Watt Hour
22	kW	Kilo-Watt
23	mWh	Mega-Watt
24	CDM	Clean Development Mechanism
25	SDG	Sustainable Development Goal

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SN	Abbreviations	Full texts
26	CAR	Corrective Action Request
27	CR	Clarification Request
28	FAR	Forward Action Request
29	GHG	Green House Gas

Appendix 2. Competence of team members and technical reviewers

SN	Last name	First name	Affiliation	Technical Experience
1	Jethi	Jayprakash	Lead Verifier and Energy Auditor at Limbaja Energy	Mr. Jayprakash Jethi is post graduate having more than 7 years of experience in the field of Energy Audit, Energy conservation and emission study.

Appendix 3. Document reviewed or referenced

SN	Author	Title	Provider
1	EClouds Energy LLP	Project Concept Note	PP
2	EClouds Energy LLP	Monitoring Report	PP
3	EClouds Energy LLP	Avoidance of double accounting	PP
4	EClouds Energy LLP	Emission Reduction Excel	PP
5	GEPC	Meter Calibration	PP
6	TANGEDCO	Electricity Export Bill	PP
7	TANGEDCO	WA	PP
8	TNEB	Commissioning Certificate	PP

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Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CLs from this Project Verification

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

Table 2. CARs from this Project Verification

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

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

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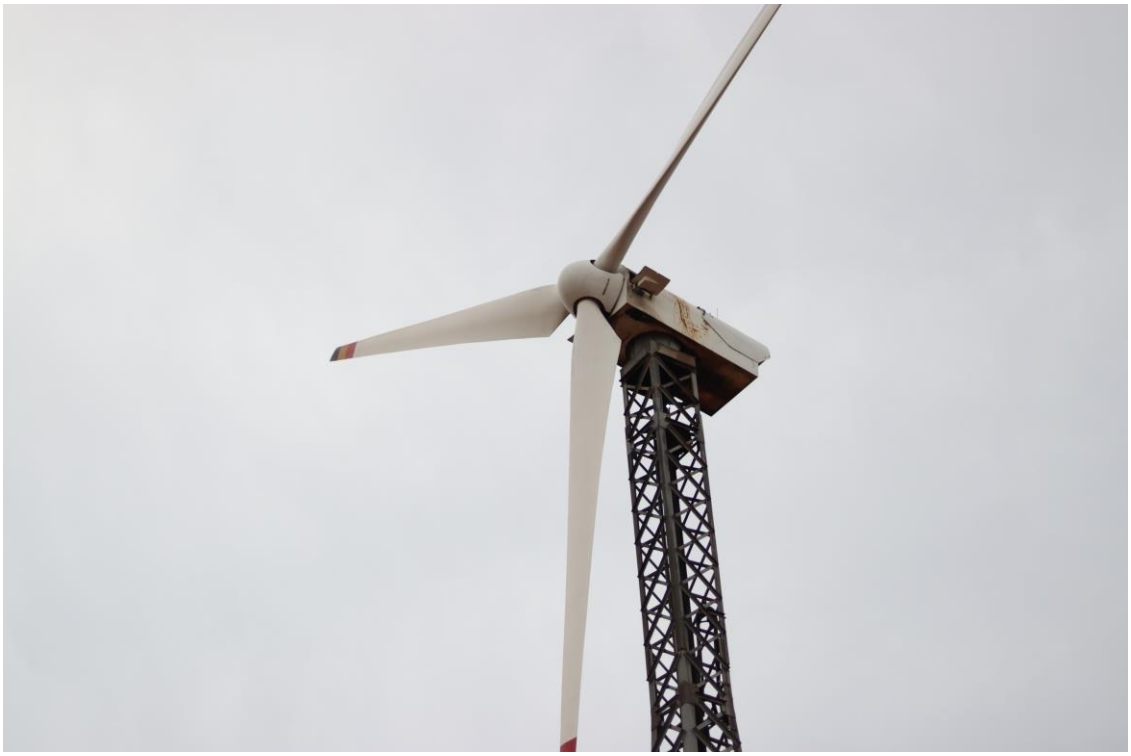
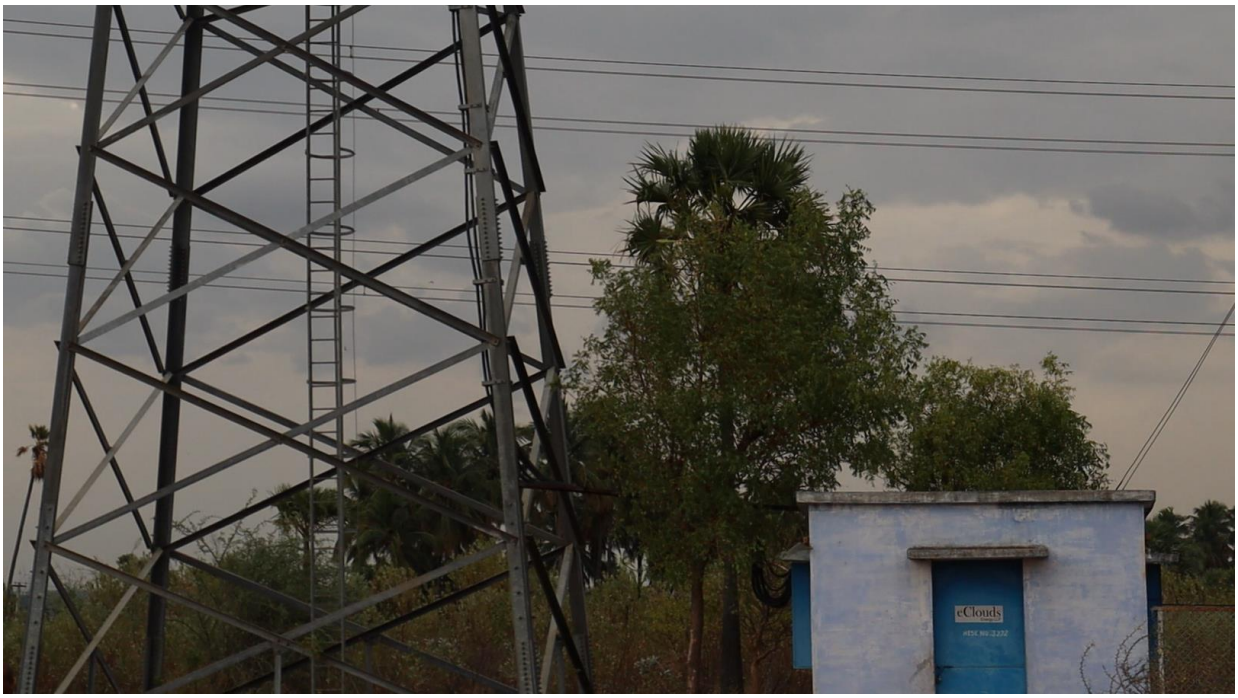
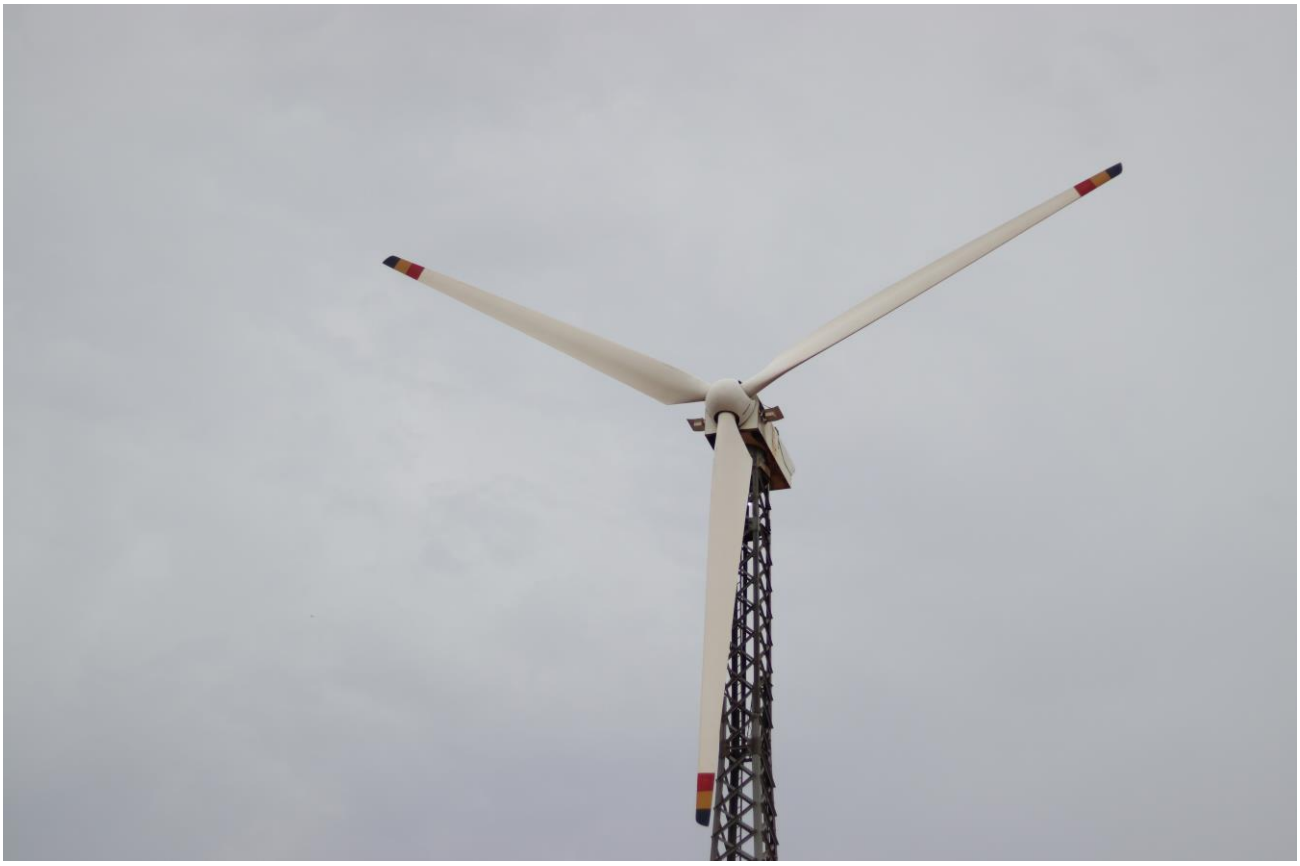
Annexure 1: Photographs of the WTG





H.O : 2, Shrijinagar, Arihantnagar road, Nr. Aashapura Cottages, Bhuj-Kachchh- 370 001.
E: limbajaenergy@gmail.com **W:** limbajaenergy.com

Jayprakash Jethi
Energy Auditor
+91 97142 53756



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Annexure 3: Commissioning Certificate

TAMILNADU ELECTRICITY BOARD

From

Er.S.Muthuramalingam, B.E.,
Superintending Engineer,
Tirunelveli Electricity Distribution Circle,
Tirunelveli-11

To

N.Vasanthal,
'Gyan Apartment',
Flat No.7, 3rd floor,
No.38, Venkatraman Street,
T.Nagar, Chennai-600 017.

Lr.No: SE/TIN/AEE/DVT/AE.2/F.WEG HT SC. 3272 /R.2627/10, Dt.15.09.2010.

Sir,

Sub: WEG-HT.SC.No.3272, dt.13.08.2010 -Commissioning Certificate-Reg.

One No. 250 KW capacity Wind Electric Generator of N.Vasanthal,Chennai has been commissioned satisfactorily on 13.08.2010 and tied up with TNEB 11 KV Grid. The particular of generation is as below.

Sl. No.	SF.No. & Village	Capacity	Date of commissioning	Generated Unit
1.	708(P) of Mayamankurichi Village.	1 x 250 KW	WEG HT SC No. 3272 Dt.13.08.2010	62920 Units From 13.08.10 to 09.09.10

For Superintending Engineer,
Tirunelveli Electricity Distribution Circle
Tirunelveli-11

Copy to Executive Engineer/Distn/Rural / Tirunelveli.
Copy to Asst.Executive Engineer/Distn/Alangulam.
Copy to A.O./REV/TEDC/TIN & AEE/GL/TEDC/TIN.

O/o. Superintending Engineer Tirunelveli EDC TIRUNELVELI 627 011. TNEB

H.O : 2, Shrijinagar, Arihantnagar road, Nr. Aashapura Cottages, Bhuj-Kachchh- 370 001.
E: limbajaenergy@gmail.com W: limbajaenergy.com

Jayprakash Jethi
Energy Auditor
+91 97142 53756

Annexure 3: Assurance to Avoid Double Counting

Universal Carbon Registry – Double Counting Assurance.2021

Strictly private and confidential

To

Limbaja Energy,

2 Shrijinagar, Arihantnagar Road, Near Aashapura Cottages, Kutch,

Bhuj – 370 001,

Gujarat,

India.

Email: limbajaenergy@gmail.com

Website: https://limbajaenergy.com

Sub: Assurance to avoid double counting by Project Owners

Dear Sir,

- We declare the following given below:
- I, Rajaram V, on behalf of M/s. eClouds Energy LLP, with details as provided in, incorporated in India, having registered office at 81, West Venkatasamy Street, RS Puram, Coimbatore – 641 002, India.

we intent to submit/have submitted the project 250KW Wind power project, M/s. eClouds Energy LLP (UCR PROJECT ID - 365) for registration with UCR Program which aims for issuance of CoUs (called as Carbon Offset Units) consequent to compliance with all the applicable requirements of UCR Program;

Authorised Actions: eClouds Energy LLP will act as the Project Proponent with respect to state the following:

- The project is not registered more than once with UCR program.
- The project is not registered under any other GHG program (voluntary or compliance)
- (If a project is registered with more than one program), that the offset credits are cancelled by (name of program) before offset credits are submitted for verification via the monitoring report to your agency. (Please attach relevant links or documentation)
- Double counting with mandatory domestic targets is avoided and that host country will not use the project's emission reductions to track progress towards, or for demonstrating achievements of its determined contributions (NDCs).

SIGNED for and on behalf of M/s. eClouds Energy LLP:

By: _____

Name: Rajaram V

Title: Business Development Head.

Date of execution: 07th March 2024.

H.O : 2, Shrijinagar, Arihantnagar road, Nr. Aashapura Cottages, Bhuj-Kachchh- 370 001.
E: limbajaenergy@gmail.com **W:** limbajaenergy.com