

Verification Report

UCR ID: 351

Prepared by

Naturelink Solutions Pvt. Ltd.

Title	Wind Power Project by M/s RVL
Project Owner	M/s Renite Vitrified LLP
Project Location	Village: Verad, Ta.: Bhanvad, Dist.: Devbhumi Dwarka, Gujarat, India. Coordinates: 21°59'01.0"N 69°51'27.2"E
Date	23/03/2024

COVER PAGE

Project Verification Report Form (VR)

BASIC INFORMATION					
Name of approved UCR Project Verifier / Reference No.	Naturelink Solutions Pvt. Ltd				
Type of Accreditation	CDM Accreditation				
	ISO 14065 Accreditation				
	UCR Approved Verifier				
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	Sectoral Scope: 01 Energy Industries				
Validity of UCR approval of Verifier	May - 2022 onwards				
Completion date of this VR	23/03/2024				
Title of the project activity	Wind Power Project by M/s RVL				
Project reference no. (as provided by UCR Program)	351				
Name of Entity requesting verification service	M/s. Creduce Technologies Private Limited (Aggregator)				
	M/s. Renite Vitrified LLP (Project owner)				
Contact details of the representative of the	Shailendra Singh Rao (Creduce)				
Entity, requesting verification service	shailendra@credcue.tech				
(Focal Point assigned for all communications)	M/s Renite Vitrified LLP				
	reniteoffice@gmail.com				
Country where project is located	India				
Applied methodologies	AMS-I.D: Grid connected renewable electricity generation– Version 18.0				
Sectoral Scope(s):	1 Energy industries (renewable - / non- renewable sources)				
Project Verification Criteria:	UCR Verification Standard				
Mandatory requirements to be assessed	Applicable Approved Methodology				

	Applicable Legal requirements /rules of the 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-approved verifier Naturelink Solution Pvt. Ltd., verifies the following with respect to the UCR Project Activity "Wind Power Project by M/s RVL" ⊠ The project aggregator has correctly described the project activity in the Project Concept Note/9/ including the applicability of the approved methodology AMS-I.D/4/ 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 7884 tCO ₂ e, as indicated in the monitoring report/5/6/, which are additional to the reductions that are likely to occur in the 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

	The project activity complies with all the applicable UCR rules and therefore recommends UCR Program register the Project activity with above mentioned labels.		
Project Verification Report, reference number and date of approval	Verification Report UCR Reference no.: NSPL/VR/2023/10/UCR/04		
	UCR ID: 351		
	Version: 1.0		
	Date: 23/03/2024		
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	Mr. Shardul Amin		
	Head Operations Naturelink Solution Pvt. Ltd. Date: 23/03/2024		

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1. Project Verification Report

1.1 Executive Summary

The verification work has been contracted by project aggregator Creduce Technologies Pvt Ltd and Renite Vitrified LLP to perform an independent verification of its UCR project titled **"Wind Power Project by M/s RVL." UCR approved project ID:351**, to establish a number of CoUs generated by the project over the crediting period from 08/09/2021 to 31/12/2022 (both days included).

Verification for the period: 08/09/2021 to 31/12/2022

In our opinion, the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report (MR)/19/, submitted are found to be correct and in line with the UCR guidelines. The GHG emission reductions were calculated on the basis of UCR guideline which draws reference from, the standard baseline, AMS-I. D: Grid connected renewable electricity generation– Version 18.0/4/. The verification was done remotely by way of video calls, and submission of documents for verification through emails.

It is certified that the emission reductions from the Wind Power Project by M/s RVL (UCR ID -351) for the period 08/09/2021 to 31/12/2022 amounts to **7884** CoUs (**7884 tCO₂e**).

Objective

The objective of this verification is to have an independent third-party assessment of whether the project activity conforms to the qualification criteria set out in the UCR Program Manual/1/, UCR CoU Standard/2/ and UCR verification standard/3/ to attain real, measurable, accurate and permanent emission reductions.

<u>Scope</u>

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. To verify the project implementation and operation with respect to the registered PCN/9/.
- 2. To verify the implemented monitoring plan with the registered PCN/9/ applied baseline and monitoring methodology.
- 3. To verify that the actual monitoring systems and procedures follow the monitoring plan.
- 4. To evaluate the GHG emission reduction data and express a conclusion whether the reported GHG emission reduction data is free from material misstatement
- 5. To verify that reported GHG emission data is sufficiently supported by evidence.
- 6. Agreement stating assurance to avoid double accounting/8/ for the project to be verified, along with required proof.

The project is assessed against the requirements of the UCR Program Manual/1/, UCR CoU Standard/2/ and UCR verification standard/3/, ISO 14064-2.

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 the project is not part of the present assignment and project is deemed validated post-registration by UCR.

1.2 Description of the Project

The project activity is a renewable power generation activity which incorporates installation and operation of single Wind Turbine Generator (WTG) having capacity of 2.7 MW manufactured and supplied by GE. The WTG under the project activity was commissioned on 08/09/2021 by Gujarat Energy Development Agency (GEDA), Government of Gujarat, India.

The details of the project activity are verified with the PCN/9/, MR/19/ and relevant documents submitted for verification as mentioned in appendix-2.

Rotor	Capacity of each WTG	2700 KW	
	Diameter	132m	
	Number of Blades	3	
	Swept Area	13,684m2	
	Rotor Speed Range	7.03 to 13.91 rpm	
	Rotational direction	Clockwise looking downwind	
	Tip speed @ rated power	84.3 m/s	
	Orientation	Upwind	
	Speed regulation	Pitch control	
	Aerodynamic brakes	Full feathering	
Pitch	Principle	Independent blade pitch control	
System			
	Actuation	Individual electric drive	
Yaw	Yaw rate	0.5 degree/s	
System			

The technical specification is listed below;

As mentioned in the monitoring report/19/ and emission reduction calculation sheet/11/ submitted for verification, the project replaces anthropogenic emissions of greenhouse gases (GHGs) estimated to be 7884 tCO₂e for the verification period, there on displacing 8760 MWh amount of electricity from the generation of fossil-fuel based power plants connected to the Indian electricity grid.

The project activity uses kinetic energy of wind to generate electricity by installation of the wind turbine generators having a capacity of 2.7 MW. The project is a small-scale activity. The methodology applied in the monitoring report is verified against the AMS-I. D: Grid connected renewable electricity generation - Version 18.0/4/ total emission reductions (ERs) achieved through the project activity during the monitoring period is summarised below:

Summary of the Project Activity and ERs Generated for the Monitoring Period				
Project start date	08/09/2021			
Start date of this Monitoring Period	08/09/2021			
Carbon credits claimed up to	31/12/2022			
Total ERs generated (tCO ₂ e)	7884			
Leakage Emission	0			
Project Emission	0			

1.3 Project Verification team, technical reviewer and approver:

1.3.1 Project verification team

0						Involvement in	
Sr. No.	Role	Last name	First name	Affiliation	Doc review	Remote inspection	Interviews
1.	Team Leader & Technical Expert	Amin	Shardul	Naturelink Solutions Pvt. Ltd.	Yes	Yes	Yes
2.	GHG Assessor	Prajapati	Divya	Naturelink Solutions Pvt. Ltd.	Yes	Yes	Yes

1.3.2 Technical Reviewer of the Verification report

Sr. No.	Role	Type of resource	Last name	First name	Affiliation
1.	Internal Technical Reviewer	IR	Mandaliya	Shyam	Naturelink Solutions Pvt. Ltd.

2 Verification Process

2.1 Desk/document review

The desk review was conducted by the verification team that included:

- A review of data and information presented to assess its completeness
- A review of the initial PCN/9/, MR/10/19/, emission reduction calculation sheet/11/, Methodology - AMS-I.D V 18.0/4/.
- A cross-check between information provided in the monitoring report/9//19/ and data from other sources such as certificate of share of electricity generated by wind farm/13/, purchase invoices/17/ or similar data sources;
- A review of calculations and assumptions made in determining the GHG data and emission reductions calculation/11/;

The list of submitted documents is available in a subsequent section of this verification report under the appendix - 2 "Document reviewed or referenced".

2.2 Remote Inspection

As per the UCR Verification standard version 2.0, the verification team conducted remote inspection of project activity via video conferencing on 12/03/2024 as mentioned in the below table.

Date of remote inspection: 12/03/2024				
No.	Activity performe During remote inspection	Site location	Date	Project Personnel
1.	Opening meeting	Project location	12/03/2024	Ms. Natasha Rathore, Sr. Consultant CTPL, and Mr. Sagar Gol, Consultant, Renite Vitrified LLP
2.	Remote inspection all installation	Project location	12/03/2024	Mr. Sagar Gol, Consultant, Renite Vitrified LLP
3.	Closing meeting	Project location	12/03/2024	Ms. Natasha Rathore, Sr. Consultant CTPL, and Mr. Sagar Gol, Consultant, Renite Vitrified LLP

The following parameters were assessed but not limited to:

- An assessment of the implementation and operation of the registered project activity as per the registered PCN/9/;
- A review of information flows for generating, aggregating, and reporting the monitoring parameters;
- Interviews with relevant personnel to determine whether the operational and data collection
 procedures are implemented in accordance with the monitoring plan in the PCN/9/ and
 MR/10/;
- A cross-check of the monitoring equipment including calibration reports and observations of monitoring practices against the requirements of the PCN/9/ and MR/10/ and selected methodology/4/;
- An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

2.3 Interviews

		Interviev	N		
No.	Last name	First name	Affiliation	Date	Subject
1.	Bhalodiya	Piyush	In Charge - Renite Vitrified LLP	27/12/2023	Legal ownership of the project, Implementation of the project, Start date and crediting period, Double counting of the carbon credits, Project boundary, Monitoring plan
2.	Gol	Sagar	Consultant, Renite Vitrified LLP	12/03/2024	Wind turbine specification and connections, energy meter readings, transformer specification
3.	Rathore	Natasha	Senior Consultant – Creduce Technologies Pvt. Ltd.	27/12/2023, 12/03/2024	Project Overview, PCN, Monitoring Report, Methodology, eligibility criteria, Baseline emissions, Emission Reduction Calculation

2.4 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 (C	GHG)		
Identification and Eligibility of project type	NIL	NIL	NIL
General description of project activity	1	NIL	NIL
Application and selection of methodologies and standardized baselines			
 Application of methodologies and standardized baselines 	NIL	NIL	NIL
 Deviation from methodology and/or methodological tool 	NIL	NIL	NIL
 Clarification on applicability of methodology, tool and/or standardized baseline 	NIL	NIL	NIL

Total	04	NIL	NIL
Others (please specify)	1	NIL	NIL
Project Owner- Identification and communication	NIL	NIL	NIL
Environmental impacts	1	NIL	NIL
Start date, crediting period and duration	NIL	NIL	NIL
Monitoring Report	1	NIL	NIL
 Estimation of emission reductions or net anthropogenic removals 	NIL	NIL	NIL
Baseline scenario	NIL	NIL	NIL
 Project boundary, sources and GHGs 	NIL	NIL	NIL

3 Project Verification findings

3.1 Identification and eligibility of project type

Means of Project Verification	The project is eligible as per UCR General project eligibility criteria and guidance Version 6.0/2/ which is acceptable since the project has not been registered under any other GHG program and the project activity is commissioned on 08/09/2021. The commissioning certificate/12/ of the wind turbine provided by GEDA has been verified in this regard. Prior to the commencement of the project activity, the project owner got approval for the installation and operation of wind turbine generator from state energy development agency (GEDA) in the district of Devbhumi Dwarka, Gujarat and PO has signed wheeling agreement/12/ with Paschim Gujarat Vij Company Ltd (PGVCL). The project also delivers real, measurable and additional emission reduction of 7884 tCO ₂ e over the crediting period Project applies an approved CDM monitoring and baseline methodology AMS-I.D: Grid connected renewable electricity generation - Version 18.0./4/
Findings	No finding was raised
Conclusion	The project is eligible as per the requirements of the UCR General project eligibility criteria and guidance Version 6.0/2/. Further project verification team cross checked the other GHG programmes like Clean Development Mechanism (CDM) Registry, VERRA Registry, Gold Standard (GS) Registry for the information regarding the consistency of the title of the project activity, GPS coordinates, Legal Ownership of the Project activity and confirmed that the project was not submitted or registered under any other GHG programmes and non-voluntary non-GHG Programs.

3.2 General description of project activity

Means of Project Verification	The purpose of the project activity is to harnesses wind kinetic energy to generate electricity which would be used to meet the electrical demand of PO.
	The project activity has installed 2.7 MW capacity of Wind turbine generator and applied AMS-I.D: Grid connected renewable electricity generation– Version 18.0/4/ falls into the small-scale category as per applied CDM methodology.
	A wheeling agreement/12/ is signed between M/s. Renite Vitrified LLP and PGVCL for the captive consumption of electricity generated by wind turbine generator. The project activity generated total 8760 MWh electricity and displacing 7884 tCO ₂ e.
	The project activity involves setting up of a new WTG to harness the wind energy and use it for captive consumption i.e., the Indian grid system through wheeling arrangement. In the absence of the project activity, the equivalent amount of power would have been generated by the operation of grid-connected fossil fuel-based power plants and by the addition of new fossil fuel-based generation sources into the grid.
	The Location details has been verified during the online assessment and geo coordinates verified through google earth/maps.
	The technical specification mentioned in the PCN/9/ is verified against the technical specification/15/ provided by GE.
Findings	CL 01 was raised
Conclusion	The description of the project activity is verified to be true based on the review of PCN/9/, MR/19/, Commissioning Certificate/12/, Technical specification/14/ and Purchase invoice copies/15/ of wind power plant components.

3.3 Application and selection of methodologies and standardized baselines

3.3.1 Application of methodology and standardized baselines

Means of Project Verification	The project activity applied AMS-I. D: Grid connected renewable electricity generation– Version 18.0/10/ falls into the small-scale category as per CDM methodology.
	Standardized baseline is "In the absence of the project activity, the equivalent amount of electricity would have been imported from the grid (which is connected to the unified Indian Grid system (NEWNE Grid)), which is carbon intensive due to being predominantly sourced from fossil fuel-based power plants" which is as per the project activity and clearly mentioned in PCN/9/ and MR/10/19/.

Findings	No finding was raised
Conclusion	The methodology applied is appropriately meeting the requirements of UCR General project eligibility criteria and guidance/2/, standardized baseline. The methodology version is correct and valid. The referenced methodology is applicable to project activity.

3.3.2 Clarification on applicability of methodology, tool, and/or standardized baseline

Means of Project Verification	Applicability as per AMS-I. D version 18.0	Verifier assessment
	 This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass: a. Supplying electricity to a national or a regional grid; or b. Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling. 	The project activity "Wind Power Project by M/s RVL" which incorporates installation and operation Wind turbine generator for captive consumption. b) the project owner has signed a wheeling agreement/13/ with PGVCL to supply the electricity generated by wind power plant. This was confirmed during the online assessment and through document review of wheeling agreement and certificate for share of electricity generated by wind farm.
	 2. This methodology is applicable to project activities that: a. Install a greenfield plant; b. Involve a capacity addition in (an) existing plant(s); c. Involve a retrofit of (an) existing plant(s); d. Involve a rehabilitation of (an) existing plant(s)/ unit(s); or e. Involve a replacement of (an) existing plant(s). 	The project is green field plant and involves installation and generation of electricity from 2.7 MW capacity of Wind turbine generator connected to the Indian national grid. The electricity generated from project activity is exported to the Indian national grid, there by displacing electricity from the grid which would have otherwise been generated by operation of grid connected power plants and by addition of new generation sources into the grid. The project activity generates 8760 MWh of electricity and displaces 7884 tCO ₂ e.
	3. Hydro power plants with reservoirs that satisfy at least one of the following conditions	This criterion is not applicable as the project activity is the installation and operation of Wind turbine power plant to generate electricity.

are eligible to apply this	
methodology:	
a. The project activity is	
implemented in an existing	
reservoir with no change in the	
volume of reservoir;	
b. The project activity is	
implemented in an existing	
reservoir, where the volume of	
reservoir is increased and the	
power density of the project	
activity, as per definitions given	
in the project emissions section,	
is greater than 4 W/m2.	
c. The project activity results in	
new reservoirs and the power	
density of the power plant, as per	
definitions given in the project	
emissions section, is grated than	
4 W/m ²	
4. If the new unit has both	The project activity is a 2.7 MW
renewable and non-renewable	wind power project, i.e., the only
components (e.g., a wind/diesel	component is a renewable power
unit), the eligibility limit of 15 MW	project below 15 MW, thus the
for a small-scale CDM project	criterion is not applicable to this
activity applies only to the	project activity.
renewable component. If the	
new unit co-fires fossil fuel, the	
capacity of the entire unit shall	
not exceed the limit of 15 MW.	
5. Combined heat and power (co-	The project activity does not
generation) systems are not	involve co-generation. Hence this
eligible under this category.	criterion is not applicable.
6. In the case of project activities	No capacity addition in the existing
that involve the capacity addition	renewable plant. This is new
of renewable energy generation	installation of wind power plant
units at an existing renewable	which was verified and confirmed
power generation facility, the	through online assessment and
added capacity of the units	interviews with project owner and
added by the project should be	their representatives.
lower than 15 MW and should be	
physically distinct6 from the	
existing units.	
7. In the case of retrofit or	There is no retrofit or replacement
replacement, to qualify as a	in the project activity, hence it is not
small-scale project, the total	applicable.
output of the retrofitted or	
replacement unit shall not	
exceed the limit of 15 MW.	
	The project estivity is a graphical
8. In the case of landfill gas, waste	The project activity is a greenfield
gas, wastewater treatment and	2.7 MW wind power project; hence,
agro-industries projects,	
recovered methane emissions	

without electricity" shall be explored. 9. In case biomass is sourced from dedicate plantations, the applicability criteria in the tool "Project emissions from biomass, hence this criter cultivation of biomass" shall applicable.	nd power involve
apply. Findings No finding was raised	

3.3.3 Project boundary, sources and GHGs

Means of Project Verification	As per the applied methodology AMS-I. D version 18.0/4/, the spatial extent of the project boundary includes industrial, commercial facilities consuming energy generated by the system. The components of the project boundary mentioned in the section B.4 of PCN/9/ were verified against the para 18 of the applied methodology.
	The project verification team conducted desk review of the implemented project to confirm the appropriateness of the project boundary identified and GHG sources required by the methodology have been included within the project boundary.
	The project location is clearly depicted with the help of a pictorial depiction in section A.3. of the PCN/9/ and duly verified by the project verification team via geographical coordinates, commissioning certificate/14/ of the project activity & wheeling agreement/12/ between Renite Vitrified LLP and PGVCL.
Findings	No finding was raised

Conclusion	The project verification team was able to assess that complete information regarding the project boundary has been provided in PCN/9/ and MR/19/ and could be assured from the single line diagram/17/, commissioning certificate/14/, geographical coordinates and wheeling agreement/12/
	The project verification team confirms that the identified boundary are relevant and all emissions sources are included in the project activity.

3.3.4 Baseline scenario

Means of Project Verification	The baseline scenario as per paragraph 19 of the applied methodology, prescribed the baseline scenario of the project activity. In the absence of the project activity, the users would have been supplied electricity from the national grid.
	As per the UCR General project eligibility criteria and guidance/2/; "The project owner has opted UCR recommended emission factor of 0.9 tCO ₂ /MWh for the 2013-2020 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Emission factors for the post 2020 period is to be selected as the most conservative estimate between the national electricity/power authority published data set and UCR default of 0.9 tCO ₂ /MWh".
Findings	No finding was raised
Conclusion	The project verification team concluded that the identified baseline scenario reasonably represents what would occur in the absence of the project activity.
	The calculated baseline emission for each vintage year of crediting period is rounded down as per UCR CoU verification standard /3/.

3.3.5 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/9/ and MR/10/19/ is in accordance with applied methodology. Project Verification team checked section B.5 and C.5.1 of the PCN/9/ & MR/10/19/. 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 SSC methodology AMS-I.D, Version 18.0/4/.

	$BE_y = EG_{BLy} X EF_{CO2,y}$					
	Where,					
	$BE_y = Baseline Emissions in year y; tCO_2$					
	EG _{BLy} = Quantity of net electricity displaced as a result or implementation of the CDM project activity in year y (MWh)	f the				
	$EF_{CO2,y}$ = Combined margin CO_2 emission factor for grid connection power generation in year y.					
	Project emissions:					
	As per paragraph 25 of the applied methodology, For most renewable energy project activities, $PE_y = 0$. Since Wind power is a GHG emission free source of energy project emission considered as Zero for the project activity					
	Leakage Emissions:					
	As per the paragraph 29 of the applied methodology AM Version 18.0, there are no emissions related to leakage in project.					
	Emission reductions					
	As per Paragraph 30 of the applied methodology, emi reductions are calculated as follows	ssior				
	$ER_y = BE_y - PE_y - LE_y$					
	Where:					
	$ER_y = Emission reductions in year y (tCO_2)$					
	$BE_y = Baseline Emissions in year y (t CO_2)$					
	$PE_y = Project$ emissions in year y (t CO_2)					
	$LE_y = Leakage emissions in year y (t CO2)$					
		Year (true (true to reduction reduction				
	2021 1929.80 0.9 1736					
	2022 6831.67 0.9 6148					
	Total 8760 0.9 7884					
Findings	None					
Conclusion	The combined margin emission factor as per "CO ₂ Baseline Database for the Indian Power Sector" current version 18, December 2022 by CEA/6/ is 0.918 tCO ₂ /MWh which results into higher emission factor than the UCR recommended emission factor of 0.9 tCO ₂ /MWh; Hence for 2022 vintage UCR default emission factor remains conservative as per UCR General project eligibility criteria and guidance/2/. Project Verification team confirm that the algorithms and formulae proposed to calculate project emissions, baseline emissions, leakage and emission reductions in the PCN/9/ and MR/19/ is in line					

with the requirements of the selected methodology AMS-I.D, version 18.0/4/
For emission reduction calculation, the assessment team confirms that;
All assumptions and data used by the project participants are listed in the PCN/9/ and MR/19/ including their references and sources.
All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PCN/4/ and MR/5/6/
The baseline methodology and the applicable tool(s) have been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions.

3.3.6 Monitoring Report

Means of Project Verification	The monitoring report/10/19/ submitted by the PP has been verified thoroughly and is in compliance with the applicable methodology and UCR General project eligibility criteria and guidance/3/ for calculation of GHG emission reductions. The assessment team has reviewed all the parameters in the monitoring plan against the requirements of the applied methodology and confirmed that monitoring parameters are applied in line with the requirement of the methodology and relevant in the context of the program. The procedures have been reviewed by the assessment team through document review, interviews with the respective monitoring personnel and online assessment.		
	As per the CEA guidelines/5/ for installation and operation of Meters, the energy meter shall be tested at least once in five years.		
	Monitoring methodology, data management and calibration of the energy meter were also discussed with project owner.		
Findings	CL 02 was raised		
Conclusion	The project verification team confirms that,		
	The monitoring report/19/ is in compliance with the applicable methodology and UCR General project eligibility criteria and guidance/3/.		
	The monitoring parameters reported in PCN/9/ and MR/19/ adequately represents the parameters relevant to emission reduction calculation.		
	The number of CoUs generation is calculated based on accurately reported data. The calculation was done using an excel sheet where all the parameters were reported.		

	mmended emis		electricity generation	is
correctly c	alculated and re		ulations sheet/11/ itoring report/19/ me requirements.	
The project proponent has carried out calibration of energy meter for the monitoring period.				
Energy meter details:				
Sr. no.	Meter No.	Class	Calibration date	
1.	GJ4958B	0.2 s	19/06/2021	

3.4 Start date, crediting period and duration

Means of Project Verification	The Commissioning certificate/14/ of the installation of the project activity has been verified as per PCN/9/ and MR/10/19/.	
Findings	None	
Conclusion	The wind turbine was commissioned on 08/09/2021 by the GEDA official and hence, the start date of crediting period is 08/09/2021 which is verified from the commissioning certificate/14/. The crediting period is also appropriate as per UCR General project eligibility criteria and guidance/2/.	

3.5 Environmental impacts and safeguard assessment

renewable sources of energy.

	Impacts identified as 'Harmless':	
Solid waste Pollution: - Any Solid-waste if generated from the shall be discarded in accordance with host country regulated parameter is being monitored as 'Project Waste' and mitigation action has been implemented for waste managem		
	Land use: since the wind power plant does not require larger area, there is no significant damage to land.	
Emission due to transportation of wind components: The emi associated with the transport of the modules are insign compare to manufacturing facilities.		
	Solid waste Pollution from end-of-life products equipment: - Waste generated from the plant.	
Findings	CL 04 was raised.	
Conclusion	The project activity displaces fossil fuel consumption and provides affordable and clean energy. The project has also avoided total 7884 tCO ₂ e, hence it has positive impact. It is confirmed that there is no EIA is required as per host country rule mentioned in the CPCB letter/20/.	

3.6 Project Owner- Identification and communication

Means of Project Verification	The information and contact details of the project owner has been appropriately incorporated in the PCN/9/ and MR/10/19/.		
	The legal owner of the project activity has been identified through the commissioning certificate/14/, wheeling agreement/12/, and purchase invoices/18/ issued by equipment suppliers.		
Findings	No findings raised.		
Conclusion	The project verification team confirms that the legal ownership of the project belongs to M/s. Renite Vitrified LLP.		

3.7 Others (Double Counting of Credits)

Means of Project Verification	The project activity was searched on other GHG programs to ensure that project is not registered in any other GHG programs like VERRA, Gold standard, GCC. An agreement stating that project activity will not cause double counting of the credits is also checked as per clause 1.8, Universal Carbon Registry Program Manual (Ver 4.0) August 2022/1/.
Findings	CL 03 was raised

Conclusion	Double accounting agreement/9/ is signed between PO and Aggregator and found to appropriate as per clause 1.8, Universal			
	Carbon Registry Program Manual (Ver 4.0) August 2022/1/.			

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

5 Project Verification opinion:

The project verification was conducted on the basis of UCR Program Manual/1/, UCR General project eligibility criteria and guidance/2/, UCR Verification standard /3/, AMS -I.D. Version 18.0 /4/, Wheeling agreement/12/, Purchase invoice/18/, Calibration Report/16/, Commissioning Certificate/14/, Project Concept Note (PCN)/9/, Monitoring Report (MR)/19/ and documents mentioned in Appendix-2.

Verification team raised 04 Nos. of Clarification Requests (CLs) and all the queries were closed satisfactorily.

It is hence certified with reasonable level of assurance that the emission reductions from the project Wind Power Project by M/s RVL (UCR ID - 351) for the period 08/09/2021 to 31/12/2022 amounts to **7884** CoUs (7884 tCO₂e) as per the UCR Verification standard /3/.

6 Competence of team members and technical reviewers

No.	Last name	First name	Role and Affiliation	Technical Competence
1.	Amin	Shardul	Team Leader and Technical Expert	Mr. Shardul Amin holds M.Tech degree in Thermal System Design. He has more than 7 years of experience in the field of waste- to-energy, thermochemical conversion technologies, and emission study.
			- NSPL	He is experienced GHG Auditor and has verified more than 50 emission reduction projects.
2.	Prajapati	Divya	GHG Assessor - NSPL	Ms. Divya Prajapati is having M. Tech. In Environmental Engineering. She is experienced in performing environmental impact assessments of various industries. She has also conducted Environmental Audit of CETP and TSDF sites and quantified GHG emissions from Solid Waste Disposal sites.
3.	Mandliya	Shyam	Technical Reviewer - NSPL	Mr. Shyam Mandliya holds master's degree in Chemical Engineering. He has expertise in environmental audits. He has performed environmental monitoring of different industries in Gujarat for air, water, and hazardous waste. He has also contributed to the community-based biogas project development.

Appendix 1: Abbreviations

Abbreviations	Full texts		
UCR	Universal Carbon Registry		
СРСВ	Central Pollution Control Board		
GETCO	Gujarat Energy Transmission Corporation Limited		
GEDA	Gujarat Energy Development Agency		
PGVCL	Paschim Gujarat Vij Company Limited.		
CEA	Central Electricity Authority		
NSPL	Naturelink Solutions Private Limited		
MR	Monitoring report		
PCN	Project Concept Note		
VR	Verification Report		
VS	Verification Statement		
DAA	Avoidance of Double Accounting Agreement		
COD	Commercial Operation Date		
PO	Project Owner		
PA/ PP	Project Aggregator / Project Proponent		
PPA	Power Purchase Agreement		
ER	Emission Reduction		
CoUs	Carbon offset Units		
tCO ₂ e	· ·		
kWh	Kilo-Watt Hour		
MWh	Mega-Watt Hour		
kW	Kilo-Watt		
MW	Mega-Watt		
CDM	Clean Development Mechanism		
SDG	Sustainable Development Goal		
CAR	Corrective Action Request		
CL	Clarification Request		
FAR	Forward Action Request		
GHG Green House Gas			

Appendix 2: Document reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	UCR	UCR Program Manual	Version 4.0, August 2022	UCR website
2.	UCR	UCR General project eligibility criteria and guidance (CoU Standard)	Version 6.0, August 2022	UCR website
3.	UCR	UCR Program Verification standard	Version 2.0, August 2022	UCR website
4.	CDM	AMS-I. D: Grid connected renewable electricity generation	Version 18.0	CDM website
5.	CEA	Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2019	Dated 23/12/2019	-
6.	CEA	CO ₂ baseline database for the Indian Power sector	Version 18.0 dated December 2022	-
7.	PA	Communication agreement between PP and PO	Dated 20.07.2023	PA
8.	Creduce	Assurance to avoid double accounting by project owners	Double accounting agreement signed on 21/03/2024	PA
9.	Creduce	Project concept note	Version 1.0, dated 19/09/2023	PA
10.	Creduce	Monitoring report	Version 1.0, dated 19/10/2023	PA
11.	Creduce	Emission reduction excel – "Wind Power Project by M/s RVL"	Version 1.0, dated 19/10/2023	PA
12.	DGVCL & PO	Wheeling agreement	Dated 29/06/2021	PA
13.	GETCO	Certificate for share of electricity generated by the wind farm	-	PA
14.	GEDA	Certificate of Commissioning dated 19/03/2022	GEDA/PWF/RVLLP/03/202 1-22/5634	PA
15.	GE	Technical specification brochure of 2.7 MW WTG	-	PA
16.	DGVCL Hi-Tech Laboratory	Test report dated 19/06/2021	DGVCL Hi-tech Lab/T- 329/P/DG/Hi- Tech/ABT/21/06/237	

17.	PO	SLD	-	
18.	Cleanmax	Purchase Invoices of Wind turbine components	1. MHCMWTGSUP2022 2. GJVECI2112 3. MHCMSUPBO2106	PA
19.	Creduce	Monitoring report	Version 2.0 dated 12/03/2024	PA
20.	CPCB	СРСВ	CPCB letter F.No.B- 29012/IPC-VI/2017-18/ date 17/11/2017	-
21.				

Appendix 3: Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

	.5 1101	n this Proje		cation			
CL ID	01	Section no.: 3.2	General activity	description	of	project	Date: 11/01/2024
Description of CL							
The technical specification does not describe the WTG life, mentioned in Section A.4: PCN V1.0 dated 19/09/2023 and Section A.1.2 and B.1.2: MR V1.0 dated 19/10/2023 as per the "Monitoring Report" page no. 8 to 10, UCR CoU Standard V. 6.0.							
Project Ow	ner's	response					Date: 12/03/2024
The lifetime of the WTG is mentioned in the wheeling agreement and provided the same as a evidence.							
Documenta	tion p	orovided by I	Project Ov	wner			
Wheeling ag	greem	ent					
UCR Project Verifier assessment Date: 15/03/2024							
Since the minimum duration mentioned in the wheeling agreement is 20 years, it has been considered as the life of the WTG. The verifier has considered it as supporting evidence for which the project is eligible for 20 years crediting period. Hence this issue has been closed							

CL ID	02	Section no.: 3.3.6	Monitoring Report	Date: 11/01/2024				
Description	of C/	AR						
In Section C.10, MR V1.0 dated 19/10/2023, energy meter and calibration details are missing in the monitoring plan as per the requirements mentioned in Clause 6 AMS.I.D - V 18.0 and UCR CoU Standard V. 6.0, page 8.								
Project Ow	ner's	response		Date: 12/03/2024				
The PP has provided.	The PP has updated the calibration details in monitoring report and MR Version 2 is provided.							
Documenta	tion p	provided by I	Project Owner					
Monitoring r	eport	ver.2.0						
UCR Projec	UCR Project Verifier assessment Date: 15/03/2024							
The calibration details are tabulated in Section C.10, MR V2.0/19/ and found to be correct as per the meter calibration report/16/. The query hence successfully been closed.								

CL ID	03	Section no.: 3.7	Others credits)	(Double	counting	of	Date: 11/01/2024	
Description	Description of CAR							
-	An agreement stating that the project activity will not cause double counting as per clause 1.8, Universal Carbon Registry Program Manual (Ver 4.0) August 2022 is pending.							
Project Ow	ner's	response					Date: 21/03/2024	
Double acco	ounting	g agreement	is provide	d.				
Documenta	tion p	provided by I	Project O	wner				
Double acco	ounting	g agreement						
UCR Project Verifier assessment Date: 23/03/2024								
Double accounting agreement is checked and found to be conforming as per <i>clause 1.8,</i> Universal Carbon Registry Program Manual (Ver 4.0) August 2022, hence CL 03 is closed.								

CL ID	04	Section no.: 3.5	Environmental safeguard asses	impacts ssment	and	Date:	11/01/2024	
Description	Description of CAR							
No evidence is submitted to justify the "Do No Harm Criteria" in Section B.2: MR V1.0 dated 19/10/2023 against the requirement mentioned in Clause 6 AMS.I.D -V 18.0 and UCR CoU Standard V. 6.0, page 8.								
Project Ow	ner's	response				Date:	12/03/2024	
The PP has	provid	ded the justifi	cation of Do No H	arm Criteria	a and r	elated i	information.	
Documenta	tion p	provided by I	Project Owner					
CPCB letter	F.No.	B-29012/IPC	-VI/2017-18/ date	17/11/201	7			
UCR Project Verifier assessment Date: 15/03/2024								
As per the CPCB notification; wind, solar and hydro powerplant below 25 MW capacity are not required to carry out EIA and are considered to be white category project. Additionally, the project activity does not cause any harm to the air, water and soil. Hence it fulfils the Do no harm criteria and CL 04 is closed.								

Table 2. CARs from this Project Verification

CAR ID	Section no.:		Date:				
Description	of CAR						
Project Ow	ner's response		Date:				
Documenta	tion provided by	Project Owner					
UCR Project Verifier assessment Date:							

Table 3. FARs from this Project Verification

FAR ID		Section no.		Date:		
Description of FAR						
Project Owner's response Date:						
Documentation provided by Project Owner						