



VERIFICATION REPORT FOR “WIND POWER PROJECT AT RAJKOT, GUJARAT”



Document Prepared by Earthood Services Private Limited

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Client	Emaar Digital Greens, Tower-B, Unit no.- 1203-1205, 12 th Floor, Sector-61, Gurgaon- 122011, India Tel: +91 124 4204599

	Website: www.earthood.in Email: info@earthood.in
Prepared by	Earthood Services Private Limited
Approved by	Dr. Kaviraj Singh
Work carried out by	Divij Varshney – Team Leader Divij Varshney - Local Expert and Technical Expert (1.2) Anurag Verma – Trainee Verifier Deepika Mahala – Technical Reviewer and Expert to TR

Summary:

Earthood Services Private limited (hereafter referred to as Earthood) has been contracted by ReNew Power Private Limited to conduct the verification of the project – “Wind Power Project at Rajkot, Gujarat”, (VCS ID-1045) with regards to the relevant requirements of VCS programme guidelines and standard (VCS standard version 4.7)/05/ & VCS program guide version 4.4/06/). Relevant requirements of the UNFCCC for CDM project activities as well as criteria for consistent project operations, monitoring and reporting has been applied for verification.

The monitoring period covered under this verification is from 01/07/2023 to 31/12/2023 (both dates included).

The verification includes confirming the implementation of the monitoring plan of the registered VCS PD (VCS ID 1045)/01/ and the application of the monitored methodology is as per ACM0002- “Grid-connected renewable electricity generation from renewable sources” (Version-20.0)/08/.

The project activity involves electricity generation by wind power project of 25.2 MW wind farm in the Rajkot district, Gujarat, India and supplying the electricity to the regional electricity grid. The project being a renewable energy generation activity results in reduction of greenhouse gas (GHG) emissions that are real, measurable, and verifiable and also plays beneficial role in the mitigation of climate change.

A risk-based approach has been followed to perform this verification and there are no uncertainties associated with this verification. During the current verification, a total of 03 Corrective Action request (CARs), 00 Forward Action request (FARs) and 01 Clarification request (CLs) were raised and successfully closed.

The review of the project description, monitoring report, and additional documents related to baseline and monitoring methodology; the subsequent background investigation and, remote interviews have provided EARTHOOD with sufficient evidence to validate the fulfillment of the stated criteria. Earthood confirms that the project is implemented in accordance with the registered VCS PD/01/ and MR/02/. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the project’s GHG emissions, and the resulting GHG emission

reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information seen and evaluated we confirm that the emission reductions from the project activity, 'Wind Power Project at Rajkot Gujarat' during the period 01/07/2023 to 31/12/2023 amounts to 18,548 tons of CO₂e.

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1 INTRODUCTION

1.1 Objective

Earthood Services Private Limited (Earthood) has been contracted by ReNew Power Private Limited to undertake the verification of the renewable energy project titled “Wind Power Project at Rajkot, Gujarat” (VCS ID-1045). The verifiers have reviewed the GHG data collected to date for the monitoring period from 01/07/2023 to 31/12/2023 covered in this verification.

The objective of this verification is a thorough and independent assessment of registered project activities against the applicable VCS requirements by the VVB. The verification process shall determine whether the proposed project activity complies with the requirement of latest VCS guidelines, applicability conditions of the selected methodology, relevant host country regulations and guidance issued by the VCS Board.

1.2 Scope and Criteria

The scope of this verification is to assess the claims and assumptions made in the VCS monitoring report/02/ against the VCS criteria, including but not limited to, VCS standard V4.7/05/, applied methodology/08/ and other relevant rules and requirements established for VCS project activities. The verification is not meant to provide any consulting towards the project participants. However, stated requested for clarification and/or corrective actions requested may have provided inputs for improvement of the project design.

During the verification, following criteria was adopted:

- a. Review of the project implementation against the registered project description.
- b. Verification of the documents and follow up interviews with the project developers.
- c. Review of the ER calculation against the approved methodologies.

1.3 Level of Assurance

☒ Reasonable level of assurance

☐ Limited level of assurance

The level of assurance of the verification report falls under reasonable assurance engagement as selected by the client. Reasonable assurance is a high level of assurance regarding material misstatement, but not an absolute one.

Reasonable assurance includes the understanding that there is a remote likelihood that material misstatements will not be prevented or detected on a timely basis. To achieve reasonable assurance, the auditor needs to obtain sufficient appropriate audit evidence to reduce audit risk to an acceptably low level. This means that there is some uncertainty arising from the use of sampling, since it is possible that a material misstatement will be missed.

The evidence used to achieve a reasonable level of assurance is specified in section 2.3 and 2.4 of this report.

1.4 Summary Description of the Project

The VCS project activity titled 'Wind Power Project at Rajkot, Gujarat' (VCS ID 1045) is wind power project of 25.2 MW developed by ReNEW Wind Energy (Rajkot) Private Limited (RNWERPL) in the Godladhar, Madhavipur, Kalasar, Devpara and Madava Villages of Rajkot district of Gujarat, India.

The project activity consists of 12 Suzlon make wind turbines of 2.1MW each totalling the total installed capacity to 25.2 MW, which has been verified from the commissioning certificate/21/ and Power Purchase agreement/22/ shared by the PP. The aim of the project is to generate cleaner electricity using wind power project and displacing the amount of electricity generated that would have been generated through carbon intensive fossil fuel based power plant or by addition of new units in the future. The electricity generated through PA is supplied to the regional electricity grid which is also part of National grid of India. The wind turbine works on the lift and drag principle to produce a positive turning force on the shaft, which results in the rotation movement of the shaft. The mechanical power produced by the rotary movement is converted to electricity by using a generator and a gearbox. The WTGs can only convert wind energy into electrical energy and hence, do not use any other type of fuel for the same.

The remote audit for the project activity was conducted on 06/02/2024 and it was checked that the current monitoring period from 01/07/2023 to 31/12/2023 (Including first and last day) involves supply of 19,934.24 MWh of electricity to the grid which was verified through share certificates/09/ and Energy sales invoices/23/, resulting in a total emission reductions of 18,548 tCO₂e which was found to be consistent with the ER sheet/03/.

The start date of the project activity is 29/03/2012 which is date of commissioning of the first WTG under the project activity verified through the commissioning certificates/21/. The second crediting period of the project is from 29/03/2022 to 28/03/2032, the same is verified using the registered PD/01/, previous validation and verification report/04/ and the remote audit conducted on 06/02/2024/10/. Location of the wind turbines in the project activity was verified through Google Earth/24/ and has been checked during the remote visit and found to be consistent with the data provided in the registered VCS PD/01/ and MR/02/.

2 VERIFICATION PROCESS

The registered VCS project is undergoing third verification of the 2nd crediting period the approach adopted to ensure the quality of emissions reductions is described in the following sections.

2.1 Method and Criteria

The verification approach consists of two phases:

In the first phase, EARTHODD completed a strategic review and risk assessment of the projects activities and processes in order to gain a full understanding of:

- Activities associated with all the sources contributing to the project emissions and emission reductions, including leakage if relevant.
- Protocols used to estimate or measure GHG emissions from these sources.
- Collection and handling of data.
- Controls on the collection and handling of data.
- Means of verifying reported data.
- Compilation of the verification Report.

At the end of this phase, Earthood produced a Verification Checklist which, based on the risk assessment of the parameters and data collection and handling processes for each of those parameters, describes the verification approach and the sampling plan.

In the second phase, Earthood verified the implementation of the monitoring plan and the data presented in VCS MR/02/ for the period in question. This involves remote interviews of project proponent representative's and a desk review of the Monitoring Report. This verification report describes the findings of this assessment.

No sampling plan has been adopted by the verification team as all the data related to the Wind Power Plant were presented in the VCS MR/02/ and ER sheet/03/ was reviewed.

2.2 Document Review

The verification is performed primarily as a document review of the registered VCS PD/01/ & MR/02/, previous verification report/04/. The review is performed by assessment team using dedicated protocols. The assessment team cross checks the information provided in the documents and information from source other than those used, if available, and also conducts independent background investigations. Earthood conducts a desk review as under:

- A review of the data and information presented to verify their completeness;
- A review of the monitoring plan, the monitoring methodology/08/ including applicable tool(s) and, where applicable, the applied standardized baseline, paying particular attention to the frequency of measurements, the quality of metering

equipment including calibration requirements, and the quality assurance and quality control procedures;

An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emissions reduction.

2.3 Interviews

The VVB conducted a remote audit on 06/02/2024 i.e., the representatives of the PP were interviewed over video call/10/about personnel responsible for monitoring of the project activity, data collection and management, QA/QC procedure, details on calibration, operation and maintenance at the project site. The details of the people interviewed are mentioned in the table below:

S. No.	Name	Organization	Date	Topic covered	Team Member
1.	Mr. Nirav Kakadiya	RENew (Site Incharge)	06/02/2024	Project description technologies implemented, Monitoring system, QA/QC procedures, calibration	Divij Varshney Anurag Verma
2.	Gaurav Singh	RENew head-office	06/02/2024	procedures and details, Local Stakeholder consultation, CSR	
3.	Dharanant Varu	RENew site engineer	06/02/2024	activities, major shutdown in plants, data recording and management, trainings imparted	
4.	Lakhaman Der	RENew site engineer	06/02/2024	WTG inspection, speed of the wind turbine. Meter connected to all the feeders.	

2.4 Site Visits

The current verification was conducted remotely in place of a physical site visit in accordance with para 4.1.12 of VCS Standard v4.7/5/ which states that “a site visit that includes a visit to facilities and/ or project areas shall be conducted at verification under the following circumstances: i) The first verification of the project after validation; ii) Verifications that include project baseline reassessments; and iii) Verifications that assess a project description deviation where the deviation impacts the applicability of the methodology, additionality or the appropriateness of the baseline scenario”. Since this is the third verification of the project after validation and the project activity does not include any baseline reassessment or deviations, a remote audit was deemed appropriate and sufficient to confirm the operations of the plant and other aspects of the project operation. The undertaken approach, i.e., remote site visit (RSV) was in accordance with paragraph 4.1.13 of the VCS Standard v4.6/5/ which states that “Where a site visit to facilities and/or project areas is not required under Section 4.1.13 the validation/verification body shall identify whether a site visit is needed based on an independent risk assessment. Such risk assessment shall identify the risk of a material misstatement or nonconformity with the audit criteria. Where it is determined that no site-visit is required, the validation/verification body shall justify and document rationale for the decision”. The representatives of the project activity were interviewed over video call (via Microsoft Teams), details of which are included in section 2.3 of this report.

To achieve a reasonable level of assurance, the assessment team followed the alternative means to substantiate the verification criteria as discussed in the table below:

Requirement	Means of Verification/ source of documents	Assessment opinion
Project implementation and operation	The project consists of installation of 12 Suzlon make wind turbines of 2.1 MW capacity each, to capture the wind power generated from the rotary action of the turbines and converting into electricity fed to the Indian grid. Supporting documents: 1. Commissioning certificates/21/ 2. VCS Registered PD/01/ 3. Photographs and videos of the project site/10/ 4. Calibration certificates/11/ 5. Power Purchase	The start date of the project activity was verified through the commissioning certificate provide by the PP. This was found to be in compliance with the registered VCS PD/01/. The implementation of the project activity has been cross-checked with the VCS PD/01/, photographs and video recordings of the project site/10/ and PP interviews during the remote site audit/10/. The continuous operation of the project activity has been

	Agreement/22/ 6. Electricity share certificates/09/ 7. Monthly signed invoices/23/	verified through the monthly signed invoices/23/ and electricity share certificates issued by GETCO/09/ It is evident from the provided documents that the project is implemented as per the registered VCS PD/01/ and it can be stated with reasonable confidence that the meters operating at the plant site are exclusive to the project activity.
Monitoring systems and procedures	The calibration certificates provided for all metering equipment, the electricity share certificates/09/ and the signed monthly invoices/23/ provided by GETCO. The technical specification of the meter installed can be verified from the meter photographs/10/ and the calibration certificates/11/	The frequency of monitoring of parameters listed under the approved monitoring plan is verified through the certificate of share of electricity generated by the wind farm issued by GETCO/09/. The photographs of the monitoring equipment provided by the PP were found to be appropriate. PP representatives were interviewed about the monitoring system and procedures during the remote site audit. The documents were cross-checked by the VVB and the implementation of the monitoring system and procedure has been verified. VVB based on this assessment, , finds that the monitoring system followed at site is within acceptable limits.

Calibration frequency	Calibration certificates of each energy meter/11/ VCS registered PD/01/	Calibration frequency of all energy meters have been verified through calibration certificates/11/, VCS PD/01/ and found consistent. Calibration Frequency : once in 3 years Responsibility of calibration and maintenance of energy meters is under the control of GETCO as verified from the calibration certificates/11/
Data and calculations	Monthly electricity share certificates issued by GETCO/09/ ER sheet/03/ VCS Registered PD/01/	Monthly values of the monitored parameters used in ER calculations are verified through the monthly electricity share certificates/09/ and found consistent. Methods and formulae used for calculation of emission mitigations have been followed in accordance with the VCS PD/01/ and applied methodology/08/

No sampling has been carried for the verification as 100% data is verified for the current monitoring period. The primary reference documents (calibration of the Energy Meters /11/, monthly electricity share certificates/09/) and invoices/23/ referred by the assessment team are issued by GETCO and hence are deemed authentic.

Based on the above assessment it can be concluded that the assessment team has verified sufficient data, to reduce audit risk to an acceptably low level as a requisite to achieve reasonable level of assurance for the current monitoring period.

2.5 Resolution of Findings

The objective of the step is to identify, discuss, and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and remote site assessment/10/. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and nonconformities, which may be of following types: CAR (Corrective Action Request) is raised if one of the following occurs:

- a) Non-compliance with the monitoring plan, the applied methodology/08/ or the standardized baseline are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient.
- b) Modifications to the implementation, operation and monitoring of the registered project activity/01/ has not been sufficiently documented by the project participants.
- c) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions.
- d) Changes to the key sustainable development indicators.
- e) Issues identified in a FAR during validation to be verified during verification or previous verification(s)/04/ have not been resolved by the project participants.

Clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable requirements have been met. All CARs and CLs raised by the Earthood during verification shall be resolved prior to submitting a request for issuance.

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

The total of 01 CL, 03 CARs were raised in the current verification. No FAR was raised. All the findings that are raised and communicated to project participant during the verification are included under Appendix 3. The section also includes the responses by the project participants and an assessment by the verification team if it was closed out or otherwise.

2.5.1 Forward Action Requests

The project activity is undergoing third verification of the second crediting period. No FAR are raised in the current monitoring period. There are no open FARs from previous verification or validation/04/ processes which have any impact on current verification.

Details of which can be checked from appendix 3 of this verification report.

2.6 Eligibility for Validation Activities

This part is not applicable for present verification, as EARTHOOD holds the accreditation for the validation of project under this sectoral scope.

3 VALIDATION FINDINGS

3.1 Methodology Deviations

There is no deviation in the methodology during the current monitoring period.

3.2 Project Description Deviations

There is no deviation in the project description during the current monitoring period. However, a project description deviation has been accepted in the previous monitoring period. The same has been briefed by the PP in section 3.2.2 of MR.

3.3 New Project Activity Instances in Grouped Projects

This is not applicable, as this is not a grouped project.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes

☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

Item	Evidence gathering activities, evidence checked, and assessment conclusion:
Audit history	The details of the audit history as described under section 1.2 of the MR have been confirmed from the publicly available information and previous verification reports on the project webpage and is found consistent/25/.
Double counting and participation under other GHG programs	The project is not receiving or seeking credit for reductions and removals from a project activity under another GHG program. This has been verified through the letter of declaration/07/ shared by the PP. Also, secondary research has been carried out by the assessment team in the registries such as CDM, GS, GCC and project is not registered in any other GHG program.
No double claiming with emissions trading programs or binding emission limits	The project reductions and removals or project activities are not included in an emissions trading program or binding emission limit. This has been verified through the letter of declaration/07/ shared by the PP.
No double claiming with other forms of environmental credit	The project activity not sought, received, or is planning to receive credit from another GHG-related environmental credit system. This has been verified through the letter of declaration/07/ shared by the PP.
Supply chain (scope 3) emissions double claiming	The project activities do not affect the emissions footprint of any product(s) (goods or services) that are part of a supply chain.
Sustainable development contributions	As per Appendix 3: Document History and effective dates, column v4.2, point 4 of the VCS Standard "Required project proponents to demonstrate contributions to a minimum of three SDGs in all monitoring reports verified after the effective date. Effective immediately for all projects that request registration on or after 20 January 2023. Projects that request registration before 20 January 2023 shall demonstrate contributions to at least three SDGs by 20 January 2025." The project has been registered on 18/05/2013 and renewed for the second crediting period on 15/11/2022, which is before 20 January 2025, and hence found to be appropriate.

Additional information
relevant to the project

- NA

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

Not a single stakeholder have been changed since validation and all the known stakeholders were involved and no new group of stakeholders are to be included for this ongoing verification. Therefore, this section is not applicable.

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	Not Applicable
Legal or customary tenure/access rights	Not Applicable
Stakeholder diversity and changes over time	Not Applicable
Expected changes in well-being	Not Applicable
Location of stakeholders	Not Applicable
Location of resources	Not Applicable

4.2.2 Stakeholder Consultation and Ongoing Communication

Ongoing consultation	The Local stakeholder consultation has been conducted at the time of project registration. Same was confirmed by the PP during the interviews /10/, for on-going stakeholder communication. PP has maintained a feedback and grievance register/26/ at the site of the SPV. Local stakeholders can lodge their grievances anytime in the register over the operational lifetime of the project activity.
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	During the current monitoring period, no grievances were received. Thus, the verification team is of the opinion that the ongoing stakeholder's mechanism is adequate and appropriate.
Date(s) of stakeholder consultation	23-November-2011 at Jasdan, Rajkot
Communication of monitored results	The monitoring results are conveyed from the concerned individuals (stakeholders) to PP using the grievance register/26/. The site officials notice and addressed the comments, suggestions, or grievances submitted by stakeholders, resolving issues as needed.
Consultation records	PP utilizes the grievance register to record the concerns raised by the locals. The register has been placed at the project site, which has been verified during the remote audit/10/, and can be access by everyone.
Stakeholder input	As a part of continuous feedback from stakeholders, the PP also placed a grievance register onsite wherein the stakeholders can put down their complaints and the same, if found genuine, are addressed immediately. However, during the current monitoring period, no comments or feedback were received.

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	It has been confirmed through the interviews with the PP's representatives/10/ and the grievance register/26/ that there is no conflicts between the PP and the Indigenous Peoples (IPs), Local Communities (LCs) and NGOs. The continuous operation of the power plant has been verified through the share certificates/09/ shared by the PP. Under the VCS program, continuous monitoring and evaluation has been conducted by the PP, which has been verified through the VCS Project Webpage/25/. At the time of registration, Local Stakeholder consultation meeting has been conducted by the PP to inform the Local communities about the implementation of the project activity.

Outcome of FPIC discussion	PP has established an effective Grievance mechanism, which has been discussed during the interviews with the PP's representatives. The grievance register/26/ has been placed at the site office, which has been verified and no negative comments has been received during the current monitoring period. At the time of registration, Local Stakeholder consultation meeting has been conducted by the PP to inform the Local communities about the implementation of the project activity. The project has been implemented in an unused greenfield land, and there is no relocation of the locals.
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4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	PP is maintaining the grievance register at the plant sites where the stakeholders can share their experiences and grievances on a continuous basis. No grievance received during the current monitoring period. The logbook/26/ has been checked and no feedback has been provided by the local stakeholders.
Grievance redress procedure	During the current verification, it was communicated by PP and confirmed by assessment team that there is no grievance registered in the grievance book/26/. A Grievance book/26/ has been placed at site office so that the local stakeholders can reach these people whenever they have any complaints, suggestions, or ideas about the project. In case of any complaints, the nature of the complaints has been discussed with the plant head office and implemented by site in-charge. The grievance redress procedure has been discussed with the PP's representatives and is found to be appropriate.

4.2.5 Public Comments

No public comments were received for the project during the monitoring period.

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
NA	NA	NA

4.2.6 Risks to Local Stakeholders and the Environment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Risks to stakeholder participation	No risk to stakeholder participation is anticipated. There are no exclusions, lack of communication or barriers in the project activity, that might prevent stakeholders from engaging or participating.
Working conditions	No risk identified. PP provides regular training programs which includes working safety to all the employees, which has been confirmed through the training records/30/. It has been also been confirmed through the remote site visit that the employees were provided with the appropriate safety equipment.
Safety of women and girls	No risk identified. The project activity has no negative impact over the safety of women and girls. Also, the safety concerns of the women and girls are addressed through the interactions with the stakeholders and resolved as per requirement. Moreover, the project strictly confirms to the laws for the women and girls, showing the commitment to address any threat related to the safety of the women/girls of the project location. The same is verified through site visit/10/ and employment records/27/.
Safety of minority and marginalized groups, including children	No risk identified. No threats to the safety of minority and marginalized groups, including children have been identified. The PP fully and diligently follows the legal and human rights of the children, minorities and marginalized groups, and hence, the project shows no negative effects on them. No risk identified as observed during the remote audit/10/.
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	There is no risk due to generation of pollutants (noise, discharges to water, generation of waste, and release of hazardous materials), due to project activity. The project infact improves air quality by preventing fossil fuel burning and reduces climate change by producing electricity from a clean source of energy, i.e. wind energy.

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination and sexual harassment	PP has implemented an equal opportunity and anti-discrimination policy/28/, which is circulated to all the employees. Additional, employees can also register any complaints regarding discrimination and sexual harassment in the grievance register placed at site office, which has been reviewed and no comments has been received regarding the same.
Management experience	The project showcases management expertise in renewable energy initiatives and effective community engagement. With a proven track record, the team emphasizes transparent communication, relationship-building, and culturally sensitive approaches. Few of the employees from different sites of the project activity were interviewed by the VVB during the remote audit/10/ conducted on 06/02/2024 and confirmed the expertise of the management in renewable energy etc.
Gender equity in labor and work	No discrimination in workers with respect to gender in providing jobs and also there is no discrimination in respect to wages between genders. PP has adopted an Equal Opportunity & Anti-Discrimination Policy/28/ and Gender Pay Parity Policy/29/, which has been communicated to all the employees.
Human trafficking, forced labor, and child labor	Project activity does not and will not use victims of human trafficking, forced labor, and child labor, which is confirmed by the PP during the interviews conducted/10/ on 06/02/2024.

4.2.7.2 Human Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Human rights	The project activity has obtained the FPIC from the local stakeholders including the IPs, LCs and customary right holders, ensuring their unforced consent before the project operation, respecting their right to make decisions. The project distributed devices without cultural or social biases, safeguarding the rights of IPs, LCs, and customary rights holders to be free from

	discrimination which is confirmed by the employees during the interviews conducted/10/ by VVB on 06/02/2024. The project activity also leads to the employment from the IPs, LCs and customary right holders, enabling them to exercise their right to fair treatment in employment and salary. VVB has checked the employment records/27/ and interviewed few of them on 06/02/2024 during the remote audit/10/ and confirms that the project has obtained consent from the local stakeholders and providing employment to the Ips, LCs and customary right holders by providing them the required trainings which is checked from the training records/30/. It has been confirmed through the interviews with the PP's representatives/10/ and grievance register/26/ that there is no conflict and grievances of the Indigenous peoples (IPs), Local communities (LCs) and NGOs.
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4.2.7.3 Indigenous Peoples and Cultural Heritage

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Preservation and protection of cultural heritage	The project activity does not impact the tangible or intangible cultural heritage or the indigenous(native) people nearby.

4.2.7.4 Property Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Disputes over rights to territories and resources	N/A
Respect for property rights	It has been conformed through the interviews with the PP's representatives that the land/property for the project activity belongs to the PP. Additionally, there is no grievance regarding the property rights in the grievance register/26/. It has been confirmed that there is no conflicts regarding the property rights of the project activity.

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
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Summary of the benefit sharing plan	Since the above section 4.2.7.4 is not applicable, hence this section is also not applicable.
Benefit sharing during the monitoring period	N/A

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	No risk identified. This project activity doesn't result in adverse effects; instead, it positively impacts on the biodiversity and ecosystem by decreasing air pollution and mitigating climate change. VVB has also confirmed the same through the interviews with the site personnels/10/.
Soil degradation and soil erosion	No risk identified. This project activity doesn't result in adverse effects; instead, it positively impacts on the biodiversity and ecosystem by decreasing air pollution and mitigating climate change. VVB has also confirmed the same through the interviews with the site personnels/10/.
Water consumption and stress	No risk identified. The project activity is a wind power plant, which has been verified through the commissioning certificates and the project activity does not have any negative impacts on water consumption or does not lead to water stress in any way.
Usage of fertilizers	No risk identified. The project activity is a wind power plant, which has been verified through the commissioning certificates and the project activity does not account for any adverse impacts associated with the use of fertilizers.

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	NA

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
NA	NA

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
NA	NA

4.2.8.3 Ecosystem conversion.

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	Since, the project activity is neither ARR, ALM, WRC nor ACoGS, hence this information is not applicable.

4.3 Accuracy of Reduction and Removal Calculations

The calculations for the emission reductions are found to be correct. The details of the reported and the verified values of all the parameter are listed in section 4.4 of this report.

This data has been verified as described in section 4.4 below. The formulae & method used to calculate the baseline emissions, project emissions and leakage are appropriate and in line with the approved methodology ACM0002 version 20.0/08/.

The PP has calculated the grid emission factor as per the combined margin approach described in the 'Tool to calculate the emission factor for an electricity system', version 07.0, EB 100, Annex 04/15/.

The grid emission factor has been calculated as the weighted average of OM & BM; and has been fixed ex-ante for the entire crediting period. The OM and BM have been obtained from a publicly available source i.e., "CO2 Baseline Database for Indian Power sector", version 17 /17/ published by Central Electricity Authority, Ministry of Power, and Government of India in October 2021.

The OM and BM have been calculated to be 0.9522 tCO₂e/MWh and 0.8653 tCO₂e/MWh respectively. The combined margin has been calculated to be 0.9305 tCO₂e/MWh.

Formula used to calculate Emission reduction: $ER_y = BE_y - PE_y$

Where,

ER_y = Emission Emissions in year y (t CO₂e/yr) PE_y = Project Emissions in year y (t CO₂e/yr)

BE_y = Baseline Emission in year (t CO₂e/yr)

LE_y = Leakage emissions in year y (t CO₂e/yr)

For calculation of baseline emissions:

BE_y = EGPJ_y * EF_{grid,CM,y} Where,

BE_y = Baseline Emissions in year y (t CO₂e/yr)

EGPJ_y = Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)

EF_{grid,CM,y} = Combined margin CO₂ emission factor for grid connected power generation in year y (tCO₂e/MWh)

Baseline Emission (BE_y) = 19934.24 * 0.9305 (tCO₂/MWh)

= 18,548 tCO₂e.

The emission reduction as ER_y = BE_y - PE_y - LE_y

PE_y = 0

LE_y = 0

Thus, ER_y = BE_y

ER_y = 18,548 tCO₂e

As per ER sheet/03/ submitted by the PP, the net emission reduction achieved during the current verification i.e. from 01/07/2023 to 31/12/2023 was verified to be 18,548 tCO₂e. The calculation method and formulae used for calculating baseline emission, project emission and leakage emission are in compliance with the applied methodology ACM0002/08/.

The assessment team is able to confirm that the GHG emission reductions and removals have been quantified correctly in accordance with the project description and applied methodology/08/.

4.4 Quality of Evidence to Determine Reductions and Removals

All the data recorded are in compliance with the registered VCS PD/01/ and Monitoring Report/02/. The assessment team has checked the monthly share certificates for electricity generated and supplied by project activity/09/ for the current monitoring period to verify the values of monitored parameters reported in ER calculation sheet/03/ and found to be consistent. Since certificates are prepared and issued by state utility based on the monthly joint meter readings by PP and state agency and also used for commercial invoice purpose, they are found to be reliable and authentic. The monitoring of the project activity is found to be in accordance with the monitoring

methodology described in ACM0002 Version 20.0/08/. The monitoring mechanism is effective and reliable. During the remote audit, personnel involved at various levels of the operation of the project activity have been interviewed to confirm that the plant personnel are conscious of the importance of the monitoring activities.

The meters comply with appropriate quality standards applicable for the used technology. The accuracy class of the meters installed for the project activity was verified through the registered VCS PD/01/, MR/02/, and calibration certificates/11/ are found to be consistent.

The following parameter has been verified for current monitoring period:

Parameter: **Quantity of net electricity generation supplied by the project plant/unit to the grid in year y, $EG_{facility,y}$ (MWh/year):**

Means of verification	Criteria/ Requirements	Assessment/ Observation
	Measuring/Reading/Recording frequency	This parameter is measured by the energy meters and continuously recorded and reported on monthly basis.
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes. The measuring and reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/08/.
	Monitoring equipment	The meters of 0.2s (active) and 0.5s(reactive) and make Larsen & Turbo is used. The serial number of the meters being GJ-1045-A & GJ-1046-A (calibration details of the meter is provided separately in this section under the heading "calibration of meters")
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	All the energy meters are of accuracy class 0.2s(active) and 0.5s(reactive). Accuracy of the monitoring equipment's is in accordance with the monitoring plan as outlined in the registered PD. /01/ This has been verified from the calibration certificates/11/ provided by the PP.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes, the accuracy of the monitoring equipment is valid for entire monitoring range. The calibration certificates clearly shows that the accuracy level is valid for entire monitoring period/11/.
	Calibration frequency /interval:	The meters are calibrated every 3

		years which is done in line with the procedures mentioned in the PD, During the current monitoring period, calibration was performed as per the details provided below in this section of the report. There is no delay reported in this monitoring period. The calibration certificates/11/ of each of the calibration has been checked and the meter is found to be within its error range.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, pending until the findings are closed or as per the manufacturer's specifications?	Yes, calibration interval in lines with the frequency stated in the Joint PD & MR/01/. The meters have been calibrated once during the previous monitoring period. The calibration dates of both the meters are 05/01/2022. The due date of the next calibration will be 04/01/2025. There is no delay reported in this monitoring period.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	The meter testing and checking procedures are solely within the purview of GETCO (Gujarat Energy Transmission Corporation Limited). This has been verified from the PPA/22/ and the calibration certificate/11/ shared by the PP.
	How the values in the monitoring report verified?	The cumulative values of EG_{facility} for the entire monitoring period is reported in the MR/02/, and the monthly values are reported in the ER calculation sheet/03/ is 19934.24 MWh. This value is derived from the difference in electricity exported by the PA to the grid and electricity imported from the grid. The value in the monitoring report and ER calculation sheet were verified from the share certificates/09/ and the invoices provided by the PP/23/.
	Is(are) calibration(s) valid for the whole reporting period?	Yes, the calibration is valid for the entire monitoring period.
	If applicable, has the reported data been cross-checked with other available data?	The monthly reported values of EG_y were further cross- checked with share certificates issued by state utility/09/.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, the data ensure correct transfer of data and reporting of emission reduction management QA/QC processes are in Place.
	In case project participants have temporarily not monitored the	There was no delay in calibration observed during the current

	parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	monitoring period.
Findings	No findings were raised.	
Conclusion	The parameter has been monitored appropriately in accordance with the registered monitoring plan/01/ and applied methodology/08/. The monitored data was recorded consistently as per the approved frequency in monitoring plan. Since 100% data has been monitored and verified, the verification team can ascertain that the values used for calculation of emission reduction are free from material errors.	

Parameters fixed ex ante:-

EF_{grid,OM,y}: The parameter is described as operating margin CO₂ emission factor of Indian Electricity Grid and is measured in unit tCO_{2e}/MWh. The value provided in MR i.e., 0.9522 has been verified from Joint PD & MR/01/ and CO₂ Baseline Database for Indian Power Sector by Central Electricity Authority/17/ and is found to be consistent. The value applied in the ER sheet calculation sheet/03/ has also been verified and found to be appropriate.

EF_{grid,BM,y}: The parameter is described as build margin CO₂ emission factor of Indian Electricity Grid which is measured in units tCO_{2e}/MWh. The value provided in MR i.e., 0.8653 has been verified from Joint PD & MR/01/ and CO₂ Baseline Database for Indian Power Sector by Central Electricity Authority/17/ and is found to be consistent. The value applied in the ER sheet calculation sheet/03/ has also been verified and found to be appropriate.

EF_{grid,CM,y}: The parameter is described as combined margin CO emission factor of Indian Electricity Grid which is measured in units tCO_{2e}/MWh. The value provided in MR i.e., 0.9305 has been verified from Joint PD & MR/01/ and is found to be consistent. The value applied in the ER sheet calculation sheet/03/ has also been verified and found to be appropriate.

W_{OM}: The parameter is described as Weightage of operating margin emissions factor. The source of the value is from the Tool 07: Tool to calculate the emission factor for an electricity system/15/. The value provided in MR i.e. 0.75 has been verified from Joint PD & MR/01/ and is found to be consistent. The value applied in the ER sheet calculation sheet/03/ has also been verified and found to be appropriate.

W_{BM}: The parameter is described as Weightage of operating margin emissions factor. The source of the value is from the Tool 07: Tool to calculate the emission factor for an electricity system/15/. The value provided in MR i.e. 0.25 has been verified from Joint PD & MR/01/ and is found to be consistent. The value applied in the ER sheet calculation sheet/03/ has also been verified and found to be appropriate.

Calibration of meters:

The energy meters installed at sub-station is of accuracy class 0.2s(active) and 0.5s (Reactive) as verified through the calibration certificates/11/. The installation of the meters was checked through Calibration certificates and through the remote audit conducted on 06/02/2024/10/. Details of the meters are provided below table:

Substation meter details:

Meter Serial No.	Sub-Station	Make and Accuracy class	Date of calibration	Calibration due date	Remark
GJ-1045-A	66 KV PAREW ADA- KAMAL APUR S/S ABT METER Line 1	Larsen & Tourbo 0.2s (Active) 0.5s (Reactive)	05-January- 2022	04-January- 2025	There is no delay in calibration during this verification period since the frequency of calibration as per registered VCS PD is once in 3 years, This has been verified through the calibration certificates/11/.
GJ-1046-A	66 KV PAREWADA- KAMALAPUR S/S ABT METER Line 2	Larsen & Tourbo 0.2s (Active) 0.5s (Reactive)	05-January- 2022	04-January- 2025	There is no delay in calibration during this verification period since the frequency of calibration as per registered VCS PD is once in 3 years, This has been verified through the calibration certificates/11/.
GJU62666	66 KV PAREWADA- KAMALAPUR S/S TVM METER LINE 1 (Main)	Secure (E3M021)	31-March- 2021	30-March- 2024	There is no delay in calibration during this verification period since the frequency of calibration as per registered VCS PD is once in 3 years, This has been verified through the calibration certificates/11/.
GJU62667	66 KV PAREWADA-	Secure (E3M021)	31-March- 2021	30-March- 2024	There is no delay in calibration during this

	KAMALAPUR S/S TVM METER LINE 1 (Check)				verification period since the frequency of calibration as per registered VCS PD is once in 3 years, This has been verified through the calibration certificates/11/.
GJU62668	66 KV PAREWADA- KAMALAPUR S/S TVM METER LINE 2 (Main)	Secure (E3M021)	31-March- 2021	30-March- 2024	There is no delay in calibration during this verification period since the frequency of calibration as per registered VCS PD is once in 3 years, This has been verified through the calibration certificates/11/.
GJU62669	66 KV PAREWADA- KAMALAPUR S/S TVM METER LINE 2 (Check)	Secure (E3M021)	31-March- 2021	30-March- 2024	There is no delay in calibration during this verification period since the frequency of calibration as per registered VCS PD is once in 3 years, This has been verified through the calibration certificates/11/.

The details of monitoring equipment involved in the project activity and their calibration details/11/ are mentioned in the table under Appendix-2 of the VCS MR/02/. The monitoring equipment for each feeder consists of a main meter, check meter and ABT meter. The ABT meters installed at site is used for billing purposes. The stipulated calibration frequency is once in 3 years as per the registered monitoring plan.

The assessment team has verified the monthly meter readings/credit notes issued by state utility and confirmed that only the data recorded through ABT meters is used to calculate net electricity supplied to the grid for two feeders and consequently for ER calculations.

GHG Calculations:

Calculation of Baseline Emissions

In accordance with the applied methodology ACM0002/08/, the the baseline emissions are CO₂ emissions from the electricity generation from the fossil fuel fired power plant that are displaced due to the project activity.

The baseline emissions are calculated as follows:

$$BE_y = EG_{PJ, y} * EF_{grid, CM, y}$$

Where,

BE_y = Baseline Emissions in year y (t CO_{2e}/yr)

$EG_{PJ, y}$ = Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)

$EF_{grid, CM, y}$ = CO₂ emission factor of the grid in year y (t CO₂/yr)

As per the paragraph 40 of the applied methodology/08/, the calculation of $EG_{PJ, y}$ is different for Greenfield plants, capacity additions, retrofits, rehabilitations, and replacements. Since the proposed project activity is Greenfield plant, hence as per the paragraph 41 of ACM0002, Version 20.0/08/.

$$EG_{PJ, y} = EG_{facility, y}$$

Where,

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

$EG_{facility, y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr)

Calculation of Project Emissions

As per the paragraph 31 of the applied methodology/08/, for most renewable power generation project activities, $PE_y = 0$. Since the project activity is a wind energy-based power generation, the project emissions are not applicable to the project activity.

Hence, $PE_y = 0$

Calculation of Leakage Emissions

As per para 53 of the applied methodology/08/, no leakage emissions are considered. The main emissions potentially giving rise to leakage in the context of electric sector projects are emissions arising due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g., extraction, processing, and transport). These emissions sources are neglected.

Therefore, $LE_y = 0$.

Calculation of Net Emission Reduction or Removals

The emission reduction as per the applied methodology equals the baseline emissions (project emissions and leakage emissions for such project activities is considered zero). The formula provided for the calculation of baseline emissions is:

$$BE_y = EG_{PJ, y} * EF_{grid, CM, y}$$

$$BE_y = 19934.24 \text{ (MWh)} * 0.9305 \text{ (tCO}_2\text{e/ MWh)}$$

$$BE_y = 18,548 \text{ tCO}_2\text{e (Rounded down to nearest integer value)}$$

As per para 54 of the applied methodology/08/, emission reductions are calculated as:

$$ER_y = BE_y - PE_y$$

Where,

ER_y = Baseline Emissions in year y (t CO₂e/yr)

PE_y = Project Emissions in year y (t CO₂e/yr)

$ER_y = 18,548 - 0$

$ER_y = 18,548$ tCO₂e

The total emission reduction during the current monitoring period –01/07/2023 to 31/12/2023 is 18,548 tCO₂e.

The verification team confirms that appropriate methods and formulae for calculating GHG emissions have been followed. The assumptions, emission factors and default values that were applied in the calculations are justified. The actual emission reduction achieved during the current monitoring period are 22.12% lower than the estimated amount of emission reduction as determined in the registered VCS PD/01/ which is due to the low PLF achieved by the project activity during the monitoring period. The generation depends on wind availability and other climatic conditions which is acceptable as it is not in control of project participant.

All the data were made available and have monitored as per required monitoring frequency. The means of verification for the values of parameters, used for baseline emissions calculations is described above.

4.5 Non-Permanence Risk Analysis

Not applicable for the project activity.

5 VERIFICATION OPINION

5.1 Verification Summary

Earthood Services Private Limited (EARTHOOD) contracted by ReNew Power Private Limited, to perform the independent verification of the emission reductions for the VCS project activity 'Wind Power Project at Rajkot, Gujarat' (VCS ID- 1045) in India for the monitoring period 01/07/2023 to 31/12/2023 (Including first and last day) as reported in monitoring report version 1.1 dated 09/04/2024/02/. The Renew Wind Energy (Rajkot) Private Limited (RNWERPL) is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emission reduction from the project activity.

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity. EARTHOOD commenced the verification on the basis of the baseline and monitoring methodology ACM0002 Version 20.0/08/, the monitoring plan contained in the VCS Joint PD & MR/01/.

EARTHOOD verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. EARTHOOD planned and performed the verification by obtaining evidence and other information and explanations that EARTHOOD considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated. In our opinion the GHG emissions reductions reported for the project activity for the period 01/07/2023 to 31/12/2023 are fairly stated in the Monitoring Report/02/. The GHG emission reductions were calculated correctly based on the approved baseline and monitoring methodology ACM0002 Version 20.0/08/ and VCS standard version 4.7/05/.

Verification period: From 01/07/2023 to 31/12/2023 (Including first and last day).

Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01/07/2023 – 31/12/2023	18,548	0	0	18,548
Total	18,548	0	0	18,548

Ex-ante emissions reductions /removals	Achieved emissions reductions /removals	Percent difference	Justification for the difference
23,816	18,548	22.12%	The generation of electricity depends upon many other climatic conditions, which are not within the control of the project participant. The lower generation during the current verification period is due to certain natural conditions and it doesn't breach the additionality of the project. Hence, it is acceptable.

The actual emission reductions for this monitoring period are 18,548 tCO₂e. Whereas the estimated emission reductions for this monitoring period are 23,816 tCO₂e. Thus, there is a variation of 22.12% (negative) in the total ERs.

5.2 Verification Conclusion

EARTHOOD verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. EARTHOOD planned and performed the verification by obtaining evidence and other information and explanations that EARTHOOD considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated. In our opinion the GHG emissions reductions reported for the project activity for the period 01/07/2023 – 31/12/2023 are fairly stated in the Monitoring Report version 1.1 dated 09/04/2024. The GHG emission reductions were calculated correctly based on the approved baseline and monitoring methodology ACM0002 Version 20/08/ and VCS standard version 4.7/05/.

Verification period: From 01-July-2023 to 31-December-2023

Verified GHG emission reductions and carbon dioxide removals in the above verification period:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU _s (tCO ₂ e)	Removal VCU _s (tCO ₂ e)	Total VCU _s (tCO ₂ e)
01-July-2023 to 31-December-2023	18,548	0	0	18,548	0	18,548
Total	18,548	0	0	18,548	0	18,548

The estimated GHG emission reduction for this monitoring period is 23,816 tCO₂e and the achieved reductions are 18,548 tCO₂e. The difference between the ex-ante emission reductions and achieved emission reductions has been calculated in the ER sheet/03/ as 22.12%. The justification for the decrease in achieved emission reduction has been mentioned in section 5.3 of this report.

The non-permanence risk rating (%)	NA
If applicable, the Long-term Average (LTA), whether it has been properly updated, and if it has been reached.	NA
Whether a loss has been appropriately accounted for, in accordance with the VCS Program rules, if applicable.	NA

ii) Complete the table below:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Buffer pool allocation (tCO ₂ e)	Reductions VCUs (tCO ₂ e)	Removals VCUs (tCO ₂ e)	Total VCU issuance (tCO ₂ e)
01-July-2023 to 31-December-2023	NA	NA	NA	NA	NA	NA	NA
Total	NA	NA	NA	NA	NA	NA	NA

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
01-July-2023 to 31-December-2023	23,816	18,548	-22.12 %	The generation of electricity depends upon many other climatic conditions, which are not within the control of the project participant. The lower generation during the current verification period is due to certain natural conditions and it doesn't breach the additionality of the project. Hence, it is acceptable.
Total	23,816	18,548	-22.12 %	

Approved by:



Kaviraj Singh

Managing Director

Date: 10/05/2024

Earthood Services Private Limited

Place: Gurgaon, Haryana

APPENDIX I: DOCUMENTS REFERENCE

S. No	Title of documents	Version	Date
1.	Registered Joint PD & MR https://registry.verra.org/app/projectDetail/VCS/1045	02	17/08/2022
2.	Monitoring Report	1.1	09/04/2024
3.	ER sheet	-	Pertaining to the latest MR
4.	Previous Verification Reports for the project activity Available at Verra registry for project activity page: https://registry.verra.org/app/projectDetail/VCS/1045	-	Various
5.	VCS standard	4.7	-
6.	VCS program	4.4	
7.	Letter of declaration from PP regarding not having created or sought any other form of environmental credits for the same period	-	-
8.	Approved Methodology ACM0002 Ver.-20.0 –“Grid-connected renewable electricity generation from renewable sources”.	20.0	-
9.	Electricity share certificates	-	-
10.	Remote audit and interviews conducted for the current monitoring period	-	06/02/2024
11.	Calibration certificates for all the meters GJ-1045-A and GJ-1046-A GJU62666, GJU62667, GJU62668, GJU62669	-	05/01/2022 31/03/2021

12.	Operations shutdown details	-	-
13.	VCS webpage for the project, VCS ID 1045; https://registry.verra.org/app/projectDetail/VCS/1045	-	-
14.	Central electricity Authority (CEA) guidelines for energy/ electricity meter testing chrome- extension://efaidnbmnnnibpcajpcgglefindmkaj/https://w ww.cbip.org/MIR/1%20DATA/CEA%201.pdf	-	-
15.	Tool to calculate the emission factor for an electricity system	7.0	-
16.	Tool for the demonstrations and assessment of additionality	5.2, EB 39	-
17.	Baseline carbon dioxide Emission Database by CEA	17	October 2021
18	CDM web page link for project activity, Project 8095: https://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1352364786.6/view	-	-
19	Stakeholder's consultation	-	-
20	Validation Reports for the project activity Available at Verra registry for project activity page: https://registry.verra.org/app/projectDetail/VCS/1045	-	-
21	Commissioning Certificates	-	29/03/2012
22	Power Purchase Agreement	-	29/03/2012
23	Energy Invoices	-	-
24	Google earth	-	-
25	VCS webpage for the project, VCS ID 1045. https://registry.verra.org/app/projectDetail/VCS/1045	-	-

26	Grievance Register	-	-
27	Employment records	-	-
28	Equal Opportunities and anti-discrimination policy	-	2020
29	Gender Pay Parity Policy	-	2020
30	Training Records	-	-

APPENDIX II: ABBREVIATIONS

Abbreviations	Full texts
ABT	Availability Based Tariff
BEF	Baseline Emission Factor
BM	Build Margin
CAR	Corrective Action Request
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CL	Clarification Request
CMS	Central Monitoring System
CMP	Conference of Parties Serving as Meeting of Parties
CO2	Carbon dioxide
DISCOM	Distribution Company
EB	Executive Board
EPC	Engineering, Procurement and Construction
FAR	Forward Action Request

GHG	Green House Gas
ISO	International Standards Organization
JMR	Joint Meter Reading
kW	Kilowatt
kWh	Kilowatt hour
GEDA	Gujarat Energy Development Agency
MR	Monitoring Report
GETCO	Gujarat Energy Transmission Corporation Limited
GUVNL	Gujarat Urja Vikas Nigam Limited
MW	Megawatt
MWh	Megawatt-hour
NEWNE	Northern Eastern Western Northern-Eastern
O&M	Operation and Maintenance
PD	Project Description
PLF	Plant Load Factor
PP	Project Proponent
PPA	Power Purchase Agreement
QA/QC	Quality Assurance and Quality Control
TOD	Time of the Day
UNFCCC	United Nations Framework Convention on Climate Change
WEC	Wind Energy Convertor
WEG	Wind Energy Generator
WTG	Wind Turbine Generator
VCS	Verified Carbon Standard
VCSA	Voluntary Carbon Standard Association
VCS PD	VCS Project Description

VCUs	Verified Carbon Units
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APPENDIX III: FINDINGS OVERVIEW

Table 1. CL from this verification

CL ID	01	Section no.	-	Date : 19/02/2024
Description of CL				
PP shall provide the following documents to the VVB for the independent assessment and cross verification of data presented in the ER sheet:				
1. The signed invoice for the month of December. 2. Wheeled Energy Invoice (2.1 MW) for current monitoring Period (i.e., 01.07.2023 to 31.12.2023).				
Project proponent response				Date : 28/02/2024
1. Signed Invoice for the month of December has been submitted 2. Wheeled Energy Invoice (2.1 MW) for current monitoring Period (i.e., 01.07.2023 to 31.12.2023) has been submitted.				
Documentation provided by project proponent				
1. Signed Invoice for the month of December 2. Wheeled Energy Invoice (2.1 MW)				
VVB assessment				Date: 01/04/2024
1. VVB has assessed the signed invoice for the month of December and found it to be appropriate. CLOSED 2. VVB has assessed all the invoices for the current monitoring period (i.e., 01.07.2023 to 31.12.2023) and found it to be valid. CLOSED				
Following observation has been made as per the ER sheet.				
The value of electricity generated in the month of August in ER sheet under Tab: Generation Details: cell F6 is mentioned as 0 which is found to be inconsistent with the share certificate, PP shall clarify the reason to dictate value for 2.1 MW as zero. OPEN				
Project proponent response				Date : 09/04/2024
The invoice for August 2023 has not been generated therefore, we have taken a conservative approach and assumed a value of 0.				
Documentation provided by project proponent				
VVB assessment				Date: 11/04/2024
The VVB has addressed the provided justification being given by the PP as the PP was not able to raise invoice for the month of August 2023 thus the justification stands valid and just. So, the findings stands CLOSED .				

Table 2. CAR from this verification

CAR ID	01	Section no.	1.1	Date : 19/02/2024
Description of CAR				
In Section 1.1, Table 'Audit History', Details of the current verification period have not been included. PP is requested to take corrective action.				
Project proponent response				Date : 28/02/2024
The 'Audit History' table has been updated in section 1.1 of the monitoring report.				
Documentation provided by project proponent				
MRV1.1				
VVB assessment				Date: 01/04/2024
VVB has assessed the updated MRV 1.1 and found out that the dates of the current verification period are consistent with the dates mentioned in the registry thus are valid and appropriate.				
Thus, CAR#01 is CLOSED.				

CAR ID	02	Section no.	ER Sheet	Date : 19/02/2024
Description of CAR				
In ER Sheet, Tab: Emission Reduction, Column F20, The number of days for the current monitoring period (i.e. 01.07.2023 to 31.12.2023) is found to be inconsistent when calculated. PP is requested to take corrective action.				
Project proponent response				Date : 28/02/2024
The number of days for the current monitoring period (i.e. 01.07.2023 to 31.12.2023) in the ER sheet has been corrected.				
Documentation provided by project proponent				
Updated ER sheet				
VVB assessment				Date: 01/04/2024
VVB has assessed the updated ER sheet Tab: Emission Reduction, Column F20 , the number of days is changed to 184 which is correct when calculated including both dates .				
Thus, CAR#02 is CLOSED.				

CAR ID	03	Section no.		Date : 19/02/2024
Description of CAR				

As per the MR template guidelines, in section 1.10, PP is requested to add the details of the Supply Chain (Scope 3) Emissions.	
Project proponent response	Date : 28/02/2024
Section 1.10, has been updated with the details of the Supply Chain (Scope 3) Emissions in the MR and is now in line with the template guidelines.	
Documentation provided by project proponent	
MRV1.1	
VVB assessment	Date: 01/04/2024
VVB has assessed the updated MRV 1.1 and confirmed that this is a zero-emission project thus no Scope 3 emissions are related to producer(s) or retailer(s) of the supplied electricity.	
Thus, CAR#03 is CLOSED.	

Table 3. FAR from this validation

FAR ID		Section No.		Date : DD/MM/YYYY
Description of FAR				
Project proponent response				Date : DD/MM/YYYY
Documentation provided by project participant				
VVB assessment				Date: DD/MM/YYYY

There is no FAR from this validation.

APPENDIX IV: COMPETENCY STATEMENTS

Competence Statement	
Name	Divij Varshney
Education	M.Tech. Renewable energy systems B.Tech. Electrical Engineering
Experience	1.5 years

Field	Climate Change & Environment / Industry		
Approved Roles			
Team Leader	Yes (VM)		
Validator	Yes (VM)		
Verifier	Yes (VM)		
Local expert	Yes (India)		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	Yes (VM TA 1.2, 3.1)		
Reviewed by	Shifali Guleria, Quality Manager	Date	16/04/2023
Approved by	Deepika Mahala, Technical Manager	Date	16/04/2023

Competence Statement	
Name	Anurag Verma
Education	M.Tech (ESN Programme) B.E (Mechanical Engineering)
Experience	-
Field	Climate Change & Environment
Approved Roles	
Team Leader	NO
Validator	NO
Verifier	NO
Methodology Expert	NO
Local expert	NO
Financial Expert	NO
Technical Reviewer	NO
TA Expert (X.X)	NO

Trainee	YES		
Reviewed by	Shifali Guleria (Quality Manager)	Date	04/01/2024
Approved by	Deepika Mahala (Technical Manager)	Date	04/01/2024

Competence Statement			
Name	Deepika Mahala		
Country	India		
Education	M. Sc. (Environment Management), GGSIP University B.Sc. Hons. (Chemistry), Sri Venkateshwar College, DU		
Experience	6 Years +		
Field	Climate Change		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	ACM0002, AMS.I.D., AMS.I.A, AMS.III.AV, AMS.II.G, AMS-II.C		
Local expert	YES (India, Bangladesh)		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	YES (TA 1.2 & TA 3.1)		
Reviewed by	Shifali Guleria (QM)	Date	28/04/2022
Approved by	Kaviraj Singh (MD)	Date	28/04/2022

APPENDIX V: COMMERCIALLY SENSITIVE INFORMATION

<i>Section</i>	<i>Information</i>	<i>Justification</i>	<i>Assessment method and conclusion</i>
NA	NA	NA	NA

