



RENEWABLE WIND POWER PROJECT BY ADANI



Document Prepared by **VKU Certification Pvt. Ltd.**

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Summary:

M/s VKU Certification Pvt. Ltd. (here after referred as VKU) has been commissioned by M/s Adani Green Energy Limited to verify greenhouse gas emission reductions reported for project activity “Renewable Wind Power Project by Adani” Project in Gujrat ,India (VCS ID 2042¹), covering third monitoring period of 01-October-2022 to 31-August-2023 (inclusive of both the dates), under first crediting period from 29-June-2019 to 28-June-2029 (inclusive of both the dates) with regards to the relevant requirements for VCS activities.

Purpose of the Verification: The objective of the verification process is to obtain an impartial evaluation of the ex-post determination of the monitored reductions in greenhouse gas (GHG) emissions. This verification aims to ensure that the monitoring methodology is implemented in accordance with the monitoring plan, and the monitoring data used to validate the reductions in anthropogenic emissions from sources is thorough, conclusive, and presented in a clear and transparent manner.

¹ <https://registry.terra.org/app/projectDetail/VCS/2042>

The verification scope of the project is:

- To verify that the project is implemented as described in the registered VCS PD/3/ & MR/1/.
- To evaluate the project's adherence to relevant regulations, including the legislation of the host country.
- To verify the implementation and functionality of the monitoring system, ensuring the generation of Verified Carbon Units without any instances of double counting.
- To verify the accuracy, completeness, consistency, transparency, and absence of significant errors or omissions in the reported data by examining monitoring records and emissions reduction calculations.
- To ensure that the actual monitoring systems and procedures align with those described in the monitoring plan.
- To assess the GHG emission reduction data and provide a conclusion with a reasonable level of assurance regarding the absence of material misstatements.
- To verify that the reported GHG emission data is adequately supported by evidence.

VKU conducted the verification process in accordance with its own established procedures, aligning with the requirements set forth in the VCS Program Guide version 4.4/9/, VCS Standard version 4.5/10/, VCS Validation and Verification Manual version 3.2/11/, and relevant decisions of the COP/MOP and applying standard auditing techniques.

These requirements encompass Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance provided by COP/MOP & CDM Executive Board, and other applicable rules, including the Host Country legislation.

The verification process encompassed a desk review, on-site assessment, resolution of any outstanding matters, and the issuance of the final verification report and certification. This comprehensive verification aimed to ensure that the reported emission reductions are thorough and precise, aligning with the relevant VCS requirements, thus enabling the project to obtain certification.

During this verification, 05 Corrective Action Requests (CARs), 02 Clarification Requests (CLs) and 00 Forward Action Request (FAR) were identified related to operation, monitoring and GHG emission reduction calculation of the VCS project activity in relation to all relevant VCS requirements for the project activity and the applied baseline and monitoring methodology, and these CARs and CLs are successfully closed after necessary corrections/clarifications by the client. No FAR was raised during this verification. The same has been discussed in Appendix B of this verification report.

The verification team ensured that the reported emission reductions are complete and accurate in accordance with applicable VCS requirements to be certified therefore the verification team has detected no further uncertainties.

In conclusion, it is VKU's opinion that the project activity "Renewable Wind Power Project by Adani." (VCS ID 2042), meets all relevant requirements for VCS standard and guidelines and correctly applies the baseline and monitoring methodology ACM0002 "Grid Connected Renewable Electricity Generation from renewable sources" Version 19/14/. The monitoring system is in place and the emission reductions are calculated without material misstatement.

Hence, VKU is able to certify that the emission reductions from the project during the third monitoring period from 01-October-2022 to 31-August-2023 (inclusive of both the dates) under first renewable

crediting period from 29-June-2019 to 28-June-2029 (inclusive of both the dates) amounts to 359,351 tCO₂e.

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1 INTRODUCTION

1.1 Objective

M/s Adani Green Energy Limited has commissioned M/s VKU Certification Pvt Ltd. (hereafter as VKU) to carry out the third periodic verification of the project “Renewable Wind Power Project by Adani” (VCS ID 2042) for the monitoring period from 01-October-2022 to 31-August-2023 (inclusive of both the dates) under first crediting period from 29-June-2019 to 28-June-2029 (inclusive of both the dates).

The purpose of the verification is to have an independent evaluation of a project activity by an accredited verification body². This evaluation is conducted in accordance with the stipulations outlined in the VCS Program Guide Version 4.4/9/, VCS standard version 4.5/10/, and the applicable GHG program. The verification is based on the registered VCS Project Description version 02 on 27-December-2019/3/.

This is the third verification of first crediting period 29-June-2019 to 28-June-2029 (Including both dates). The duration of this monitoring period is 11 months, specifically from 01-October-2022 to 31-August-2023 (inclusive of both the dates). The project activity follows a first crediting period of 10 years which can be renewed for maximum 2 times, as outlined in section 1.6 of VCS Project Description version 02 dated; 27-December-2019/3/.

Table No 01: Number and time period of Verification under first crediting period:

First Crediting Period: 29-June-2019 to 28-June-2029, Including of both dates.			
Periodic Verification No.	Monitoring Period	Program	Number of years
Validation in VCS	Crediting Period is from 29-June-2019 to 28-June-2029 (Inclusive of both days)	VCS	10 years, 00Months, 00 Days (Renewable for two times)

² Assessment team assessed the VERRA's website: <https://verra.org/validation-verification/vku-certification-pvt-ltd/#vcs> wherein the scope of services of VKU certification Pvt. Ltd. is mentioned as verification only. Thus, ensuring that the accreditation details mentioned in FVR is consistent and correct.

1 st (Verification) in VCS	29-June-2019 to 31-August-2021 (Inclusive of both days)	VCS	02 years, 02 months, 3days
2 nd (Verification) in VCS	01-September-2021 to 30-September-2022 (Inclusive of both days)	VCS	01year, 01 month 00 Days
3 rd (Verification) in VCS (Ongoing)	01-October-2022 to 31-August-2023 (Inclusive of both days)	VCS	00 Years, 11 months 00 Days

The verification will be performed by review of evidences & documents submitted to VVB by PP, for the registered project activity to establish that:

- The project activity has been implemented and operated as per the registered VCS PD version 02 dated; 27-December-2019/3/ and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place.
- Monitoring report/1/ and other supporting documents (Section 2.2 of this report) are complete.
- The data is recorded and stored as per the monitoring methodology i.e., (“ACM0002 “Grid Connected Renewable Electricity Generation from renewable sources” Version 19.0) /14/ and approved monitoring plan.

The objectives of this verification exercise are, by review of objective evidence, to establish that the monitoring system is operational and capable of generating Verified Carbon Units (VCUs) without any instances of double counting/31/, and to ensure the accuracy, completeness, consistency, transparency, and absence of significant errors or omissions in the reported data, an examination of the monitoring records and emissions reduction calculations is conducted. This aims to establish the reliability and integrity of the data.

1.2 Scope and Criteria

The verification scope is:

- To verify that the project is implemented as described in the registered VCS PD /3/
- To assess the project’s compliance with other relevant rules including the host country legislation.
- To confirm that the monitoring system is implemented and fully functional to generate VCUs without any double counting.

- To establish that the data reported are accurate, complete, consistent, transparent and free of material error or omission by checking the monitoring records and the emissions reduction calculation.
- To verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement;
- To verify that reported GHG emission data is sufficiently supported by evidence

The verification process is essential to certify that the reported emission reductions are comprehensive and accurate. The project undergoes evaluation based on the requirements outlined in VCS standard version 4.5/10/, VCS program guide version 4.4/9/, VCS validation and verification manual version 3.2/11/, and relevant rules and guidance of CDM project standard version 03.0/42b/ and CDM validation, verification standard/42a/ and CDM applied methodology AMS III.Z..

VKU has followed the recommendations and guidance provided in the latest version of the CDM Validation and Verification Standard/42/, along with the VCS validation and verification manual/11/. The verification process employs a rule-based approach, with a focus on identifying significant reporting rules and ensuring the reliability of project monitoring.

The verification method and criteria encompassed several phases, including

- (i) Desk review of VCS Project Description, registered under version 02 on 27-December-2019/3/and other supporting documents listed in Table-05;
- (ii) Onsite interviews & Focussed Group Discussions, Stakeholders & PP representatives involved in project's implementation.
- (iii) Resolution of outstanding issues and Completeness/Quality Check and the Final issuance of the verification report and applicable VCS Verification Deed of Representation.

It is important to note that the verification process does not involve providing consultancy to the project proponents. However, requests for clarifications and corrective actions may have contributed to improvements in the monitoring process.

1.3 Level of Assurance

All the revisions of the verification report before being submitted to the client were subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent VKU's procedure, with a Reasonable level of assurance, as per section 04 clause 4.1.2 of the VCS Standard version 4.5/10/.

The threshold for quantitative materiality with respect to the aggregate of errors, omissions, and misrepresentations, relative to the total reported GHG emission reductions and/or removals was to 1% percent, as required by clause 4.1.8 of the VCS Standard version 4.5/10/

The verification report is based on the Monitoring report/1/, VCS PD version 02 dated 27-December-2019/3/ & supporting documents (section 2.2 of this report) that were made available to the VKU's assessment team and information collected through performing interviews/35/ and /40/ with PP Representatives/Local Stakeholders during on-site visit.

The technical review was performed by a technical reviewer qualified in accordance with VKU's qualification procedure. The verification team and the technical reviewers consist of the following personnel.

Table No 02: The Assessment Team members are as follows:

Role/Qualification	Last Name	Middle Name	First Name
VCS Team Leader	Kathuria	NA	Sunil
Technical Expert (TA 1.2, wind)	Kathuria	NA	Sunil
Validator/Verifier Trainee	Verma	NA	Aastha
Project Trainee	Bhana	NA	Sanjana
Local Expert	Kathuria	NA	Sunil

Table No 03: The Technical Team is as follows:

Role/Qualification	Last Name	Middle Name	First Name
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Technical Reviewer & Technical Expert (TA 1.2 wind)	Kumar	NA	Sanjay
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1.4 Summary Description of the Project

The project activity involves electricity generation by wind energy source (renewable source) and supplying the generated electricity to the Indian electricity grid system. This is a greenfield project activity. The project activity ensures the reduction of greenhouse gas (GHG) emissions that are real, measurable, and verifiable and also plays beneficial role in the mitigation of climate change.

The project activity involves the installation of Wind project. The total registered and installed capacity of project is 150 MWAC, comprising of (25x 2.0 MW) WTGs by Wind Three Renergy Private Limited, (25x2.0 MW) WTG by Wind one Renergy Private Limited and (24x2.1 MW) WTG in Adani green Energy (MP) Limited. The project is located in Gujrat state, India. All the WTGs are manufactured by INOX and Suzlon and functioning well since their commissioning. The project was commissioned on 29-June-2019 (Wind Three Renergy Private Limited, 02-July -2019 (Wind One Renergy Private Limited) and 20-October-2019 (Adani Green Enregy (MP) Limited). These dates are verified against Registered VCS PD /3/ and commissioning certificate/32/, Previous two Verification reports /5/ and /7/. These supporting documents were submitted by PP to the assessment team in response to the query raised by assessment team during verification assessment. This is in line with section 3.26 and clause 3.26.3 of the VCS Standard version 4.5/10/, where it is an obligation for the project proponent to make available to the validation/verification body the required supporting documents. The details of the WTGs for the project and their location of installation are mentioned in Table-04 below: -

Table No 04: Commissioning dates of Project Activity

Name of SPVs	Project Type	Project Capacity MW	Date of Commissioning	Project location	State
Wind Three Renergy Private Limited		50	29-June-2019	Village Meghpar, Taluka Nakhatrana District Kutch,	

Wind One Renergy Private Limited		50	02-July-2019	Village Lakhat, Taluka Nakhatrana District Kutch,	
Adani Green Energy (MP) Limited	Wind Turbine	50	20-October- 2019	Ratadiyaat, District Kutch,	Gujarat

As per MR/1/, the electricity generated from the project is supplied to the state grid system which is under the purview of the Unified Indian Grid. This is confirmed by mean of registered VCS PD version 02 dated 27-December-2019/3/, Power Purchase agreements/26/, REA statements issued by Central Electricity Authorities-Western region Power committee. Net Energy is metered for all SPVs through Calibrated meters having valid calibration certificate issued by Larsen & Toubro Electrical & automation, Above information has been also cross checked with previous verification reports/5/ and/7/ and interview with PP/40/. registered VCS PD /3/.

The total emission reductions achieved in this monitoring period i.e., from 01-October-2022 to 31-August-2023 (inclusive of both dates) is 359,351 tCO₂e. The net electricity of 383,595 MWh was generated by the project activity and evacuated to the grid.

This information has been verified by document review and interview with PP representative's present during onsite visit, Verification team confirms that all the components of installed technology are fully functional and found to be in line with the details provided in the registered VCS PD /3/. The project activity follows approved large scale CDM methodology ACM0002 Version 19.0 /14/ for quantification of GHG emission reductions.

2 VERIFICATION PROCESS

The registered VCS project is undergoing third verification under VCS, the approach adopted to ensure the quality of emission reductions is described in the following sections.

2.1 Method and Criteria

Verification was conducted using VKU's procedures in line with the requirements specified in the VCS Requirements, i.e., VCS Program Guide version 4.4/9/, VCS standard version 4.5/10/. The GHG emission reductions are on the basis of the approved Baseline and monitoring methodology ACM0002: "Grid Connected Renewable Electricity Generation from renewable sources" Version 19.0./14/.

Scope: 01 Energy Industries (renewable- and non-renewable sources) Title: "Grid Connected Renewable Electricity Generation" (version 19.0) /14/.

Tools used for GHG Calculations are as follows as per registered PD/3/:

- Tool to calculate the emission factor for an electricity system, Version 07.0. /15/
- Tool for the demonstration and assessment of additionality – Version 07.0.0./16/

During onsite visit/40/ verification team reviewed 100% data for all the WTGs involved in this project and hence no sampling is involved.

Monitoring mechanisms used in the project were checked as mentioned in MR/1/ and VCS PD /3/Meter readings are the only source for measuring energy generation so these readings are crosschecked with monthly REA statements /30/. Meters installed at the project site were also verified for accuracy class, calibration dates, meter type, make and model via Calibration certificates /28/, desk review as well as on-site assessment/40/.

The verification consisted of the following phases:

1. **Planning:** The assessment team plans the GHG-programme site visit as per para 4.1.13 of VCS standard 4.5 instructions/10/. Reason behind selecting the onsite audit mode is that, during desk review of initial MR/1/ and ER calculation sheet /2/and risk assessment, verification team found that the there is zero generation in October and November month of Wind One Renergy and Wind Three Renergy and overall energy generation is much higher in last three month which may impact the additionality and or the appropriateness of the baseline scenario.
2. **Audit Plan:** An audit plan is prepared, including all sub-elements required for an integrated verification process aligned with the contract, scope, objectives, level of assurance, and materiality.
3. **Evidence Gathering & Risk Assessment:** Based on strategic analysis, the team determines evidence gathering activities, preparing a plan to collect sufficient and appropriate evidence for each GHG-related activity characteristic, using a risk-based approach.
4. **Client Confirmation:** The site visit audit plan is sent to the client for review and confirmation.
5. **Document Review:** Relevant documents, such as the verification report, monitoring plan, methodology, VCS PD, and QA/QC procedures, are thoroughly reviewed.

6. **On-Site Assessment:** This includes interviews and evaluation of the actual project scenario.
7. **Resolution of Discrepancies:** Any non-conformities identified during the assessment are addressed and resolved.
8. **Independent Review:** A technical reviewer provides an independent assessment.
9. **Final Verification:** After completeness checks, the verification report and certification are issued.

The following sections outline each step involved in verification in more detail.

2.2 Document Review

The verification was performed primarily based on the review & assessment of the monitoring report (MR) version 01 dated 20-September-2023/1/, version 02 dated 05-October-2023 and version 03, dated: 25-October-2023 /1/ and the emission reduction calculations spreadsheet version 01, dated 20-September-2023/2/ and version 02 dated 05-October-2023/2/. In addition, the registered VCS PD /3/ in particular was reviewed for the baseline estimations and the monitoring plan for the project. The following table lists the documentation that were reviewed during the verification.

As per section 3.26 and clause 3.26.3 of the VCS Standard version 4.5/10/ it is an obligation for the project proponent to make available to the assessment team the required supporting documents and data needed to support statements and data as documented in the monitoring report/3/. Thus, the assessment team reviewed the following documents during verification:

Table No 05: Lists of the documentation that was reviewed during the verification:

1	VCS monitoring report for “Renewable Wind Power Project by Adani” prepared by EKI Energy Services Limited Version 01 dated 20-September-2023 Version 02 dated 05-October-2023 Version 03 dated 25-October-2023
2	Emission Reduction Calculation Spreadsheet Version 01 dated 20-September-2023 Version 02 dated 05-October-2023
3	Registered VCS PD - “Renewable Wind Power Project by Adani” version 02 dated 27-December-2019 29-June-2019 to 31-August-2021 (First and last date included)
4	VCS monitoring report version 02 titled “Renewable Wind Power Project by Adani” prepared by EKI Energy Services Limited dated 11-October-2021 for Monitoring period 29-June-2019 to 31-August-2021 (First and last date included)
5	First Verification report “Renewable Wind Power Project by Adani Project” version 2.1 dated 15-November-2021 prepared by LGAI Technological Center, S.A. (Applus+ Certification)

6	VCS monitoring report version 02 titled “Renewable Wind Power Project by Adani” prepared by EKI Energy Services Limited dated 09-December-2022 for monitoring period 01-September-2021 to 30-September-2022 (First and last date included)
7	Second Verification report “Renewable Wind Power Project by Adani Project” version 2 dated 19-December-2022 prepared by LGAI Technological Center, S.A. (Applus+ Certification)
8	Validation Report of “Renewable Wind Power Project by Adani” version 01, dated: 28-December-2019
9	VCS: VCS Program Guide, version 4.4 of 29-August-2023
10	VCS: VCS Standard, version 4.5 of 29-August-2023
11	<u>Validation and verification manual version 3.2 dated 19-October-2016</u>
12	<u>VCS Program Definitions version 4.3 dated 21-December-2022</u>
13	<u>VCS Registration & Issuance Process (Version 4.3) of 17-January-2023</u>
14	<u>CDM Monitoring Methodology ACM0002 “Grid Connected Renewable Electricity Generation from renewable sources” Version 19</u>
15	<u>Tool to calculate the emission factor for an electricity system, Version 07.0</u>
16	<u>Tool for the demonstration and assessment of additionality, Version 07.0</u>
17	<u>CO₂ Baseline Database for the Indian Power Sector User Guide Version 13.0</u>
18	<u>VCS: Monitoring report Template VCS Version 4.2</u>
19	VERRA: https://registry.terra.org/app/projectDetail/VCS/2042
20	REC website Renewable Energy Certificate Registry of INDIA https://www.recregistryindia.nic.in/index.php/publics/faqs
21	<u>I-REC Standard - The International REC Standard Foundation (irecstandard.org)</u>
22	GPS map camera (GPS App)
23	GPS Google earth software used for Location
24	EIA Report & EIA NOTIFICATION dated 14-September-2006; https://moef.gov.in/wp-content/uploads/2018/03/so1533.pdf
25	Central Electricity Authority (Installation and Operation of Meters) Regulations Notified on 17-March-2006 No. 502/70/CEA/DP&D Amendments Notified on 26-June-2010 No. 502/6/2009/DP&D/D-I https://cea.nic.in/wp-content/uploads/2020/02/meter_reg.pdf <u>Metering Regulations Archives - Central Electricity Authority (cea.nic.in)</u>
26	PPA: Power Purchase Agreements signed between Project Proponent and State Utility
27	O& M agreement
28	Certificates of Calibration for all the meters belongs to project activity
28	Daily generation Report
29	Presentation of Pictures of CSR activities done by Adani foundation
30	Monthly REA statements

31	Letter of declaration from PP regarding not having created or sought any other form of environmental credit for the same period (No Double Counting Declaration)
32	Commissioning certificate of all the WTGs of the project activity issued by state electricity authority
33	Technical Specifications of Project Equipments and Monitoring Equipments
34	Grievance Register and complaint box present on-site
35	On site personnel interview dated 29-September-2023 (including opening meeting and closing meeting)
36	Site Visit Photographs and attendance sheet dated 29-September-2023
37	Breakdown Details PP has submitted Breakdown Details in an Excel Sheet.
38	Training records of Site Personnels
39	VKU.F64W.Field Assessment Checklist for Onsite Visit
40	VKU.F46W. Attendance Sheet for Audit_VKU.VER.132.23_VCS_2042
41	Single Line Diagram of INOX and Suzlon
42	a. CDM validation and verification standard for project activities version 3.0 b. CDM Project standard for project activities version 03.0
43	Local Stakeholder Meeting Records
44	1. Wind Rate Records submitted by PP 2. Independent reference weblinks; a. https://www.nrel.gov/docs/fy14osti/61741.pdf b. https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/1421301.pdf c. https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/2821301.pdf d. https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/1105302.pdf

2.3 Interviews

An on-site inspection has been performed by the assessment team. The representatives of the PP and O&M contractors were interviewed personally by assessment team on 29-September-2023 at SCADA location, Ratadiya, District: Kutch, Gujarat i.e., Tables 06 & 07 provide a comprehensive overview of the onsite interview process/40/ conducted during the verification.

These tables outline the personnel involved in the interviews, along with their respective roles. The interviews specifically targeted individuals responsible for monitoring the project activity, data collection and management, as well as those involved in the quality assurance and quality control (QA/QC) procedures. The tables serve to identify the individuals interviewed and provide relevant information regarding their roles within the project.

The details of the people interviewed are mentioned in the table below:

Table no: 06: Details of Personal Interview & /Focussed Group Discussion with Technical Team present Onsite

S No.	Name & Gender	Designation	Organization	Topic
1.	Arjun Singh (Male)	Deputy Manager (Adani)	Adani Green Energy Limited	- Responsibility for Maintaining the data records, completeness of data, and reliability of data (calibration of equipment's), QA/QC - O&M discussion of WTGs, Management Practices - Site management practices - Project Implementation and technical details of the Project like breakdown details/37/. - Training requirement of the personnels/38/.
2.	Aashutosh Shukla (Male)	Deputy Manager (SCADA)	Adani Green Energy Limited	
3.	Charanjeet Singh (Male)	Engineer (Adani)	Adani Green Energy Limited	
4.	Bhavsahab Patel (Male)	Asst.Manager	Adani Green Energy Limited	
5	Bharat Patel (Male)	Deputy General Manager	Adani Green Energy Limited	

The topics covered during interview ranged from general features and implementation of project to technical details of the project like calibration details, monitoring and measuring system, data collection, recording, emergency procedures, internal audit, Procedures for handling non-conformances with the validated monitoring plan, personal training and archiving procedures.

The assessment was based on the feedback received during onsite interview coupled with the documentation in VKU.F64W.Field Assessment Checklist for Onsite Visit/39/.

During Onsite Visit, Assessment team also interviewed/40/ the local stakeholders involved in the projects to verify implementation and process of grievance resolution as claimed and mentioned in the Monitoring report/1/ (refer section 2.2 of MR) by the PP. The assessment team confirmed the sustainable development claims and assessed the socio-economic impact of the project on local community. Assessment Team also checked the records and observed that the PP has provided opportunities for the locals to express their opinions and grievances, with efforts to resolve any issues through consultation with stakeholders. Assessment team thus verified all the above statements via focussed group discussions and personal interview/40/ with stakeholders. PP has a well-defined procedure for involving local stakeholders in the project implementation and that their grievances are resolved appropriately as tabulated below:

Table No 07: Details of Personnel Interview/Focussed Group Discussion with Stakeholders

S No.	Name & Gender	Village	Designation	Category	Topic
1.	Rayma Adam (Male)	Aiyr	Cook	Local Stakeholders	- Implementation of Project activity and its impact on the economic, social and environmental parameters around the located project activity and on the local people of the area. - The employment generation due to project activity implementation. - Salary and other facilities like safety equipment provided on site during
2.	Hiren Kumar Vaghela (Male)	Ugedi	Security Guard		

The VKU Assessment Team meticulously documented the information obtained during the interviews with local stakeholders& site personnel/40/. This data was recorded using VKU's dedicated form, VKU.F46W, (Attendance Sheet of Onsite Audit)/40/. Through a comprehensive process involving documentation, desk review, document verification, and interviews with site personnel the VKU Assessment Team affirms that no negative comments were received during

the on-site interviews conducted by the team. For further details, please refer to section 4.2.2 below.

2.4 Site Visits

Site Location Visited: Nakhatrana

Location: Village Meghpar, Lakhpat and Ratadiya, District: Kutch, State: Gujarat, Country: India. Further the location along with longitude and latitude is mentioned in section 4.1 of this report.

The project location and co-ordinates mentioned in the MR/1/ is cross verified by the Google Earth application/23/ and GPS camera /22/ and it is compliance with the registered PD/3/. Moreover, the WTGs coordinates are verified through on spot selections of WTGs visit (details mentioned in section 4.1 of this report) and found that all coordinates are lying between the project location coordinates. Hence, location and mentioned coordinates are correct and incompliance with PD/3/ and as per onsite verification.

An Onsite visit was undertaken by the verification team to the project location identified in MR at Ratadiya, District: Kutch on 29-September-2023 in Gujarat state, India to carry out the following;

- a. A review of the operation and implementation of the registered project activity in accordance with the VCS PD version 02 of 27-December-2019 /3/ approved document;
- b. An analysis of the information flows used to generate, aggregating and reporting the monitoring parameters;
- c. Interviews/40/ with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the registered VCS PD version 02 of 27-December-2019/3/;
- d. A cross check between information provided in the monitoring report and data from monthly REA statement /30/and, inspection of Online monitoring system (SCADA);
- e. A check of the monitoring equipment including their calibration, performance and records of monitoring practices against the requirements of registered PD/3/, applied methodology including applicable tool(s), and, wherever applicable & the applied standardized baseline;
- f. A review of calculations and assumptions made in determining the GHG data and emission reductions;
- g. 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.

2.5 Resolution of Findings

The objective of this phase of the verification is to resolve any outstanding issues, which need to be resolved for VKU's positive conclusion on the registered VCS project. A verification protocol has been customized for the project to guarantee transparency. The protocol shows in a transparent manner all the requirements, means of verification and the results from verifying the identified criteria. The verification protocol consists of three situations in tables; the different columns in these tables are described below.

A corrective action request (CAR) is raised if one of the following occurs:

- Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient; Mistakes have been made with a direct influence on project results requiring adjustments of the VERs/VCUs monitoring report. Consequently, such aspects should receive a special focus during the consecutive verification. A FAR may originate from lack of data sustaining claimed emission reductions.
- ; Issues identified in a FAR during previous assessment i.e., in validation or verification report to be cross verified during verification have not been resolved by the project participants.

A clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

A forward action request (FAR) is also raised in cases where any required deviation/information is not fulfilled in current verification and thus needs to be taken up in consequent verification for better transparency thus holding the applicability of the methodology eligible to the project activity and there is no impact of the same on additionality, baseline scenario & emission reduction calculation of project.

In summary, 02 CL and 05 CARs and 00 FAR were raised during this verification which were closed successfully and details are provided under Appendix B of this report.

2.5.1 Forward Action Requests

Based on the review of the registered PD/3/ and Previous VCS Verification Report/5/ and /7/, no FAR was raised during previous verification which needs to be closed during this verification and no FAR has been raised during current verification.

2.6 Eligibility for Validation Activities

VKU has not undertaken any validation activities as part of the verification and does not hold accreditation for validation of any relevant sectoral scope Hence this section is not applicable. It is to further conclude that during current verification there is no validation assessment

undertaken either by VKU itself or parallelly by other certification bodies, as the same was confirmed with focussed group discussions and interview with the PP /40/ during site visit.

Assessment team assessed the VERRA's website <https://verra.org/validation-verification/vku-certification-pvt-ltd/#vcs> wherein the scope of services of VKU certification Pvt. Ltd. is mentioned as verification only. Thus, ensuring that the accreditation details mentioned in FVR is consistent and correct.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project has not applied under any other GHG program except VCS for current monitoring period, 01-October-2022 to 31-August-2023 (inclusive of both the days). The project is registered under VCS only with project ID 2042³. This was confirmed by checking VERRA registry website. Similar exercise was performed for CDM/GS/GCC/UCR/ICR registries with similar project title/capacity and Project Proponents but the assessment team could not find any such project registered on these registries. Hence it was confirmed that the project does not claim any emission reduction from other registries. This was supported from the “No Double Counting declaration”/31/ submitted by PP in which they have mentioned that they will not claim same GHG emission reductions of the project from any other GHG program except VCS. The project has not been registered under any GHG program. Furthermore, double counting issue has also been assessed and the project verification team has also checked the I-REC registry (<https://evident.services/device-register>) and this project is not available within I-REC Registry database at the time of this report date.

Similarly, Gold Standard project database (<https://registry.goldstandard.org/projects?q=&page=1>), VCS project database (<https://registry.verra.org/app/search/VCS/All%20Projects>), BioCarbon registry (<https://biocarbonregistry.com/en/projects/>), ICR registry (<https://www.carbonregistry.com/explore/projects>), Social Carbon Registry (https://wilder.earth/social_carbon), were checked and this project is not available within above databases, either at the time of this report date. (Other links are also verified which are mentioned below).

Thus, VKU can confirm that emission reduction generated from the project activity for current monitoring period from 01-October-2022 to 31-August-2023 (Inclusive of both start and end dates) will not be double counted.

Assessment team also did the exercise of independently searching for such project registration or claim for current monitoring period was performed for other GHG related benefits such as REC/20/ and I-REC/21/ benefits and based on both independent assessment and declaration submitted by PP/31/, the assessment team accepted the claim that there is no double counting from this project activity for current monitoring period from 01-October -2022 to 31-August-2023 (Inclusive of both days).

Assessment team has also verified the issuance of VCUs claimed in previous verification against the VCU issuance record registry. Thus, ensuring emission reduction generated from the project activity will not be double counted.

Rejection by other GHG programs

The Project is not rejected by other GHG programs. A declaration/31/ for the same is checked and found correct by the assessment team. Also, assessment team independently verified with the following registries and checked projects from the PP matching the same project design and found that no such project either exists or were rejected by the registries. The details of the registries checked are as follows: The details of the registries checked are as follows:

1. <https://www.recregistryindia.nic.in/>
2. <http://cdm.unfccc.int/>
3. <http://www.goldstandard.org/>
4. [I-REC Standard - The International REC Standard Foundation \(irecstandard.org\)](http://www.irecstandard.org/)
5. <https://cri.nccf.in/>
6. [International Carbon Registry - International Carbon Registry](http://www.internationalcarbonregistry.org/)
7. [GCC PROJECTS PORTAL \(globalcarboncouncil.com\)](http://www.globalcarboncouncil.com/)

3.2 Methodology Deviations

As per the cross verification of registered PD/3/ and its corresponding validation report/8/, previous verification reports/5/ and /7/and the CDM applied methodology ACM0002 V19.0/14/ with methodology applied in the monitoring and calculation of ERs of the current monitoring period in the initial Monitoring Report v01, dated: 02-September—2023 (both dates included)/1/, VKU Certification verification team confirms that there is no methodology deviation ever taken in previous as well as current monitoring period. This was cross checked with previous monitoring reports/5/ and /7/. Therefore, in conclusion, this section is not applicable for current monitoring period.

³ <https://registry.terra.org/app/projectDetail/VCS/2042>

3.3 Project Description Deviations

As per the MR /1/ submitted by the PP for current monitoring period, verification team confirms that there is no project description deviation during the current monitoring period for the project activity VCS 2042 “Renewable Wind Project by Adani”.

This was cross-checked with below listed documents;

1. The registered 1st Monitoring Report v02, dated: 11-October-2021/4/, and its verification report v2.1 dated:15-November-2021 for monitoring period from 29-June-2019 to 31-August-2021/5/.
2. The registered 2nd Monitoring Report v02, dated: 09-December-2022/6/, and its verification report v02 dated:19-December-2022 for monitoring period from 01-September-2021 to 30-September-2022/7/.
3. VCS PD v02, dated: 27-December-2019 and its validation report v01, dated: 28-December-2019/3/.

It is found that, during registration of the project activity under VCS mechanism, the source of generation data for all three SPVs, REA statement issued by respective western regional power committee (WRPC) were considered as the source. However, After Validation of the project activity, Monitoring practices was reformed by the state utility and REA (Regional Energy Account) statements issued by Western Regional Power Committee (WRPC), CEA are being issued for all the three SPVs. The REA statements being issued to PP as source of data for the generation is as per the requirement of State electricity authority and PP has no role to play in it. Hence, the generation data during the current monitoring period has been taken from the REA statements. Above mentioned deviation was approved by VVB (Applus+ Certification) during 1st verification of Monitoring period 29-June-2019 to 31-August -2021(both dates included)/5/. PP also apply REA statement as source of data for registered monitored parameter.

This does not impact current monitoring period's applicable methodology, additionality and appropriateness of the baseline scenario. Therefore, in overall conclusion, this section is not applicable for the current monitoring period.

3.4 Grouped Project

Based on the following listed documents:

- VCS standard 4.5/10/,

- VCS Validation and Verification Manual v3.2/11/,
- VCS monitoring Report Template v4.2, /18/
- Registered PD v02, dated: 27-December-2019 /3/

Verification Team Confirms that the given project “Renewable Wind Power Project by Adani” is not a grouped project. Therefore, this section is not applicable.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

Based on the onsite audit conducted with the project proponent (PP) representative, it was determined that the project has been implemented in accordance with the requirements outlined in the registered VCS PD/3/ and the approved monitoring plan/3/.

Project is located at district Kutch, Gujarat State of India. Geo-Coordinates of location of SCADA control room is Latitude 23°30'36.2232" N and Longitude 69°07'48.0648" E which is verified through pictures taken by GPS camera during site inspection. The assessment team also conducted a verification of the project location. This was accomplished through a desk review using google earth/23/ and during the onsite visit using GPS map camera application/22/. The latitude and longitude coordinates specified in the registered VCS PD v02/3/, VCS Validation Report/8/, and VCS MR/3/ were confirmed to be accurate.

The monitoring period for this VCS verification is 01-October-2022 to 31-August-2023 (first and last days included) and this is verified through the issuance previous 2nd verification report for monitoring period 01-September-2021 to 30-September-2022 (including both days)/7/. And as per the registered PD/3/, crediting period of project activity is from 29-June-2019 to 28-June-2029(both dates included).

This project activity involves the installation of total 74 WTGs of total installed capacity is 150MWh.

Table 08: Project Commissioning/32/

Name of the SPVs	Capacity (MW)	Commissioning Date	No of WTGs	Project Location
Wind Three Renergy Private Limited	50	29-June-2019	25 WTGs (2.0 MW each)	Meghpar, Nakhatrana, Kutch Gujarat, India
Wind One Renergy Private Limited	50	02-July-2019	25 WTGs (2.0 MW each)	Lakhpat, Nakhatrana, Kutch Gujarat, India
Adani Green Energy (MP) Limited	50 (PPA is of 50MW though installed capacity is 50.4MW)	20-October-2019	24 WTGs (2.1 MW each)	Ratdiyaat, Nakhatrana, Kutch Gujarat, India
	Total 150 MW		Total 74 WTGs	

Energy generated through above WTGs is evacuated to Indian Grid, Verification team also verified the same through by the power purchase agreement (PPA) submitted by the PP/26/. As per the PPA/26/ agreements are between the

1. Adani Green Energy (MP)Ltd. and PTC India Ltd. for 40MW wind power supply to UPPCL/Discoms of UP.
2. Adani Green Energy (MP)Ltd. and PTC India Ltd. for 10MW wind power supply to NPCL(UP).
3. Inox Wind Infrastructure Services Ltd. and PTC India Limited, 50 MW wind power for supply to UPPCL/Discoms of Uttar Pradesh.
4. Inox Wind Infrastructure Services Ltd. and PTC India Limited, 50 MW wind power for supply to Jharkhand Bijli Vitran Nigam Limited.

The sales information has been also cross checked with monthly REA (Regional Energy Account) statement provided by the Western Regional Power Committee/30/, of all three SPVs for the current monitoring period. Technical specification/33/ of the WTGs are submitted by the PP and also confirmed during site audit. Hence verification team conclude that the technical specification/33/ of the project equipment is correct and in compliance with the registered PD/3/. During the Onsite audit on 29th September 2023, verification team could confirm that the project is implemented as per the requirement of the registered VCS PD v02, dated 27-December-2023/3/ and its approved monitoring plan.

In addition to SCADA Monitoring of all WTGs physical spot inspection of the WTGs (K125, K59, K278, K44 and K96), main meters, check meters and standby meters has been carried out during on site visit .VKU confirms that the technical specification mentioned in the MR /1/ for current monitoring period are correct and in compliance with the registered PD/3/.

The verification team also conducted a thorough assessment of the implementation status of the project activity and the installed instrumentation in SCADA Control room.

The technical specification for installed 74 WTG is provided below

Table 09: For Adani Green Energy (MP) private Limited 24WTG

Wind Turbine	Technical Specifications
Rotor	2.1 MW -Suzlon
Installed electrical output	2100 kW
Diameter	120.0 m
Tower Height	138.1m
Tower Type	Hybrid lattice tower (HLT)
Hub Height	140cm
Foundational Level	Site Specific
Cut-in wind speed	3.0 m/s
Rated wind speed	9.5 m/s (without turbulence intensity according to IEC)
Cut-out wind speed	18 m/s
Power Regulation	Active Pitch regulated

Type	Asynchronous, 3 Phase Induction
Rated output	2100 kW
Operating voltage	3* 690 V
Frequency	50 Hz
Generator	
Type	Slip ring asynchronous generator
Frequency	50Hz (-6% to + 5% continuously)
Asynchronous	Slip ring
Rated Power	2.315 MW (under DFIG operation with rotor circuit inverter system)
Cooling system	IC616 as per IEC 60034 part6
Transformers	
Type	Oil filled Transformer
Rated Voltage	690v
Rated apparent Power	2300kVA
Frequency	50 Hz
Transformer Capacity	3-PH, 250KVA
Transformer Voltage	33KV

Table 10: For installed 50 WTGs of Wind Three Renegy Private Limited and Wind One Renegy Private Limited:

Wind Turbine	Technical Specifications
Rotor	2.0 MW -INOX
Rotor Speed	14.2 rpm
Installed electrical output	2000 kW
Diameter	113m
Tower Type	Hybrid lattice tower (HLT)

Tower Height	118m
Hub Height	120m(Hybrid)
Cut-in wind speed	3.0 m/s
Wind speed at rated output	10m/s
Cut-out wind speed	20 m/s
Power Regulation	Active Pitch regulated
Type	Asynchronous
Rated Power output	2000 kW
Material, Length and Swept Area of Blade	Glass Fibre, 55.2m and 10029sq.m
Generator	
Type	Asynchronous Double Fed Induction Generator
Frequency	50Hz
Voltage	690 V AC, 3 phase
Rated Power Output	2000kW
Rated Generator Speed1	1200 RPM
Cooling system	Forced Water cooling
Transformers	
Type	Oil filled Transformer
Transformer Capacity	3-PH, 250KVA
Transformer Voltage	33/0.433KV

Based on the interviews conducted with site personnel and the verification team's onsite visit, it has been confirmed that all quality assurance and quality control (QA/QC) procedures specified in the registered VCS PD version 02 have been followed during the operation of the project activity. The monitoring plan outlined in the registered VCS PD version 02/3/ and the applied methodology have been effectively implemented, mentioning all the specified parameters in the current monitoring report.

The total GHG emission reductions or removals generated in this monitoring period (which have 11 Month) is 359,351.00 tCO₂e by replacing the actual net energy generation 383,595 MWh.

GHG Emission Reductions;

Table 11: PP present the months wise calculation of all SDGs in monitoring report /1/

Months	Total Net Generation (MWh)	Emission Reductions (tCO ₂)	Trainings (Nos)	In Compliance with
	SDG 7	SDG 13	SDG 8	Onsite Inspection, Monthly REA statement, validated Emission Factor and Training Records submitted by PP
01-October-2022 to 31-October-2022	7,273.83	6,814.12	-	
01-November-2022 to 30-November-2022	4,553.02	4,265.26	-	
01-December-2022 to 31-December-2022	22,192.83	20,790.24	-	
01-January-2023 to 31-January-2023	36,319.43	34,024.04	1	
01-February-2023 to 28-February-2023	21,918.69	20,533.42	-	
01-March-2023 to 31-March-2023	28,228.50	26,444.46	-	
01-April-2023 to 30-April-2023	34,777.11	32,579.19	-	
01-May-2023 to 31-May-2023	46,328.02	43,400.09	-	

01-June-2023 to 30-June-2023	46,480.91	43,543.31	-	
01-July-2023 to 31-July-2023	49,540.93	46,409.95	1	
01-August-2023 to 31-August-2023	85,982.29	80,548.21	-	
Total	383,595.60 (383,595MWh) Round-down	359,351 tCO ₂ e (Round-down)	2	

All details mentioned in this section is verified by VKU as per the onsite inspection and desk review of supporting document. Furthermore, monitored data mentioned here are verified in section 4.5 of this report.

The assessment team also conducted a verification of the project location. This was accomplished through a desk review using google earth/23/ and during the onsite visit using GPS map camera software/22/. The latitude and longitude coordinates specified in the registered VCS PD/3/, VCS Validation Report/9/, and VCS MR/1/ were confirmed to be accurate.

Table 12: Details of Geo-coordinates of Project Location as per the MR/1/ and registered PD/3/

Name of SPVs	Latitude	Longitude
Wind Three Renergy Private Limited	23 ° 12'32.4108"N	70 ° 38'7.6236"E
Wind Three Renergy Private Limited	23 ° 12'29.9952"N	70 ° 37'50.9772"E
Adani Green Energy (MP) Private LIMITED	23 ° 12'30.42"N	70 ° 38'26.0484"E
SCADA Control Room	23 ° 12'30.42"N	70 ° 38'26.0484"E
Metering Substation of Wind Three Renergy Private Limited	23 ° 37'25.0140"N	69 ° 00'47.0304"E
Metering Substation of Wind one Renergy Private Limited	23 ° 37'24.7476"N	69 ° 00'46.3572"E
Metering Substation of Adani Green Energy (MP) Limited	23 ° 30'33.6060"N	69 ° 07'49.5948"E

During the onsite visit and discussions with the project proponent (PP) representative. It was observed that the monitoring plan has been implemented as per the registered VCS PD v02 /3/ and applied methodology ACM0002, Version 19/14/. The organizational role and responsibility as mentioned in the registered VCS PD v02/3/ is followed onsite. Meters are calibrated as per calibration frequency mentioned in registered VCS PD/3/.

The baseline emission parameters specified in the registered VCS PD v02/3/ have been verified, ensuring their accuracy and compliance. The PP has provided a declaration as an evidence requirement defined under section 3.24 clause 3.24.3 of VCS Standard version 4.5/10/ stating that they will not claim credits under any other GHG emission reduction scheme, including the Clean Development Mechanism (CDM), for the present monitoring period under VCS. This declaration ensures that there is no possibility of double counting.

Overall, based on the interviews, onsite visit, and verification of documents, it can be concluded that the project activity has adhered to the necessary procedures, monitoring parameters,

emergency preparedness, and baseline emission parameters outlined in the registered VCS PD version 02/3/.

Assessment team concludes the following:

- a) There are no material discrepancies between project implementation and the project description provided in the registered VCS PD version 02 dated 27-December-2019/3/.
- b) The monitoring plan is implemented completely and monitoring system (i.e., process and schedule for obtaining, recording, compiling and analysing the monitored data and parameters) is appropriate.
- c) There are no material discrepancies between the actual monitoring system, and the monitoring plan set out in the registered PD/3/ and the applied methodology/14/.
- d) The GHG emission reductions or removals generated by the project have not been included in any emissions trading program or any other mechanism that includes GHG allowance trading.
- e) The project has not received or sought any other form of environmental credit, or has become eligible to do so since validation /8/ and previous verification/5/ and /7/.
- f) The project is registered under VCS ⁴ only, however PP has submitted the declaration/31/stating, they will not claim same GHG emission reductions of the project from CDM or any other GHG programme for the current monitoring period when project is seeking to get GHG emission reduction from VCS. Assessment team also checked the REC/20/ Mechanism database of India and I-REC/21/ mechanism database found that the project activity is not accredited / registered under REC or I-REC mechanism which was verified from the (Renewable Energy Certificate Registry of India ⁵ REC)/20/, (International-Renewable Energy Certificate Standard Standard) I-REC⁶/21/ website and same was verified by checking in other GHG programs including GS Registry, CDM, GCC, UCR & CR-I, however PP has submitted the declaration/31/ for the same which is in line with set guidelines of section 3.24 clause 3.24.4 of VCS Standard version 4.5/10/.
- g) The project activity complies with indicators for sustainable development in the interim approval guidelines for Clean Development Mechanism (CDM) projects from India as discussed under section 1.11 of MR/1/. VKU confirms project activity is a voluntary and regulatory surplus activity as per VCS program definitions v4.4/12/ and also not part of any regulatory requirement. Assessment team has verified the same during on site visit/40/ and found all the indicators to be effective and applicable for the project activity.

⁴ registry.terra.org/app/project/Detail/VCS/2042

⁵ <https://www.recregistryindia.nic.in/> 128

⁶ I-REC Standard - The International REC Standard Foundation (irecstandard.org)

- h) As per the VCS Standard Version 4.5/10/, specific guidelines are applicable when the producer(s) or retailer(s) of the impacted good or service are identified but not involved in the project or do not possess a website. The project Activity is a wind project and does not involve any supply chain in the project such as manufacturers, wholesalers, distributors and retailers. So, no indirect upstream and downstream GHG emissions are involved in the project activity. Thus, the Scope 3 emissions are not applicable in this project activity.
- i) The project activity complies with 3 indicators for sustainable development in the interim approval guidelines for Clean Development Mechanism (CDM) projects from India as discussed under section 1.11 of MR. In which SDG indicator taken by PP are.

The Project activity has implemented activities that results in 3 SDG Contributions; 7.2, 8.6 and 13.0.

1. 7.2 i.e. (Renewable energy share in the total final energy consumption)

As a part of this project activity lifetime, a total of 1,469,049 MWh (696,482.80 MWh in 1st verification +388,971.62 MWh in 2nd verification+ 383,595 MWh current verification) of renewable electricity, has been supplied to the Indian grid by the project activity till the end of the current monitoring period.

VVB has referred previous verification reports approved by VERRA /5/, /7/, REA statement/30/, and thus VKU found the above claimed renewable electricity supplied to Indian grid is correct and deemed satisfactory.

2. 8.6 (Promote Youth Employment, education and training)

As per review of Last verification reports /5/ and /7/ found that previous verification was conducted on Verification Report Template version 4.1 and there was no requirement of SDG target 8.6 as per v4.1 template filling guideline and requirement. So, this SDG was not applicable at the times of last two previous verifications. Hence, there is no audit history for SDG 8.6. And for ongoing verification (3rd) there are two (02) training provided and evidence for same is submitted to VVB hence, information is correct. As part of this project activity Two (2 Numbers) training programmes were conducted during the current monitoring period (mention content of the course and number of participants).

3. 13.0 (Tonnes of greenhouse gas emissions avoided or removed)

Due to installation of this project activity PP has prevented the release of the emission of 11,376,160 tCO_{2e} (652,424tCO_{2e} in 1st verification + 364,385tCO_{2e} in 2nd verification + 359,351tCO_{2e} during current MP) in the atmosphere till the end of the current monitoring period. Thus, proving that the

project generates eco-friendly, GHG free power which contributes to sustainable development of the region. VVB has referred previous verification reports /5/ and /7/, REA statement /30/, and thus VKU found the above claimed Tonnes of greenhouse gas emissions avoided or removed correct.

Table No. 13: Audit History Table

Audit Type	Period	Program	VVB Name	Number of years	VCUs Issued	In compliance with
Validation	29-June-2019 to 28-June-2029	VCS	ESPL	10 years, 00 Months, 00 days	NA	Registered PD v02/3/.
Verification	29-June-2019 to 31-August-2021	VCS	Applus	2 years, 2 months, 2 days	652,424 tCO ₂ e	Registered PD v02/3/, Previous Verification Reports/5/, and/7/. And current REA statement/30/.
Verification	01-September-2021 to 30-September-2022	VCS	Applus	1 year, 1 month, 00 days	364,385tCO ₂ e	Registered PD v02/3/, Previous Verification Reports/5/, and/7/. And current REA statement/30/.
Verification (Ongoing)	01-October-2022 to 31-August-2023	VCS	VKU	00 Year, 11 months, 00 days	359.351 tCO ₂ e	Registered PD v02/3/, Previous Verification Reports/5/, and/7/. And current REA statement/30/.
Total	<u>Validation - 1</u>	<u>NA</u>	<u>NA</u>	Validation - 10 years	Total VCUs (1 st MP+2 nd MP+ 3 rd MP) =	Registered PD v02/3/, Previous

	<u>Verification</u> <u>n - 3</u>			Verification - 4 years, 2 months, 2 days	1376,160 tCO2e.	Verification Reports/5/, and/7/. And current REA statement/30/.
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The project has demonstrated positive impacts on various aspects of sustainable development, aligning with the criteria set by the Ministry of Environment and Forests. These impacts include economic, social, environmental, and technological benefits. In terms of social well-being, they contribute to local economic development and improves the livelihoods of individuals in the surrounding communities.

In terms of environmental impact, the project's utilization of wind energy as a renewable source of power has significant advantages. By eliminating reliance on fossil fuels, the project reduces greenhouse gas (GHG) emissions, helping to mitigate climate change. It also contributes to the reduction of specific pollutants such as sulphur oxides (SOx), nitrogen oxides (NOx), and suspended particulate matter (SPM), which are commonly associated with traditional thermal power generation facilities. The use of wind energy conserves limited resources and promotes sustainable energy practices.

In summary, the project's positive impact on economic development, social well-being, environmental preservation, and technological advancement aligns with the key components of sustainable development as identified by the Ministry of Environment and Forests.

The project has implemented comprehensive training programs to ensure that staff members are equipped with the necessary skills and knowledge to carry out their roles effectively and ensure the proper monitoring of emission reductions. The training activities have been conducted in accordance with the monitoring plan and have been organized for the current monitoring period. The training programs cover a range of topics to address various aspects of the project's operations. Plant helpers have received training in equipment operation, data recording, report writing, operation and maintenance, and emergency procedures, aligning with the requirements outlined in the monitoring plan.

In view of the information as verified above the assessment team is able to conclude that the project has been implemented as described in the project description/3/, All the above stated information was verified by VVB during onsite visit and site personnel interviews/40/.

4.2 Safeguards

4.2.1 No Net Harm

The verification team confirms that there are no significant impacts due to the implementation of the project activity on air, water, soil quality and ambience are envisaged due to the project activity. And, there were no socio-economic impacts identified from the project and hence no mitigations measures are applicable was found during the documents review of VCS PD /3/, grievance register/34/, EIA report 2006 /24/ etc.

The given project activity is using Wind Energy as renewable source for the production of energy which helps in emission reduction by replacing the production of energy by non renewable source. The project activity promotes environmental and socio-economic well-being as it results in zero GHG emissions due to installation and operation of clean, renewable energy technology for electricity generation.

VKU confirms that since there were no negative impacts, no mitigation measures are required under the current monitoring period in project activity. Hence it meets criteria of 3.19.2 of VCS Standard/10/.

The same has been verified through the following;

1. The report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” prepared by MNRE dated September 2013. This report clearly mentioned that wind/Wind power project activity operations do not result in direct air pollution, noise pollution.
2. Moreover, also as per the Central Pollution Control Board of India notification wind/wind project falls under White Category and are practically non-polluting.

4.2.2 Local Stakeholder Consultation

During the onsite visit interview with the project representative and local stakeholders (LS) (details are mentioned in section 2.3 of this report), it was found that local stakeholder consultation was conducted at the time of project registration. Evidence (LSC meeting records) /43/ has also been submitted and verified by the VVB for the same.

Following discussions with LS, it has discovered that the project's representative is associated with the NGO “Adani Foundation,” which has organized activities such as health check camps, playrooms for children in government schools, and the installation of cemented chairs in villages near the project location. A presentation record /29/has also been submitted as evidence to the VVB.

However, for ongoing communication, the project proponent (PP) has maintained a feedback/complaint register and complaint box at the project site. Local stakeholders can lodge their grievances at any time during the operational lifetime of the project. No grievances were received during the current monitoring period as per onsite inspection of Grievance register/34/.

4.3 AFOLU-Specific Safeguards

The project activity encompasses energy generation through wind turbines, organized into three (SPVs). As a result, this project activity does not fall under the AFOLU projects category. Hence, the verification team confirms that this section is not relevant to the project titled “Renewable Wind Power Project by Adani”. Hence, as per the VCS validation and verification standard v4.5/10/, this section is not applicable for this given project activity.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The project monitoring has been carried in accordance with the registered VCS PD/3/ and the monitoring report/1/. The monitoring plan laid in the registered VCS PD/3/ is being followed at the site and involves just one parameter to be monitored $EG_{PJ,y}$ (Electricity supplied to Grid) according to the registered monitoring plan mentioned in the monitoring report/1/ and VCS PD /3/. The parameter value is sourced from REA statement/30/. The verification team has carefully analysed ER sheet /2/ that was provided by PP by cross-checking the values from the monthly REA statement for current monitoring period/30/ that PP submitted and it has determined that all of the equations, conversions, and aggregations are correct. The estimated emission reduction was 276,796 tCO_{2e} for current monitoring period i.e., 01-October-2022 to 31-August-2023 whereas the actual emission reductions achieved were 359,351 tCO_{2e} which is 29.83% higher than what was estimated and it is due to greater wind season in the current monitoring period. The overall actual PLF for the generated energy in for current monitoring period is 31.81% whereas as per the VCS PD/3/.

Table No. 14- PLF Analysis: -

Project Proponent	Adani Green Energy Limited
Estimated PLF as per registered VCS PD	24.50% (Breaching value 54.38%)
Current monitoring period	Actual Generation (KWh)
Total no. of days: 01-October-2022 to 31-August-2023	335 days
Total generation	383,595.60
Capacity	150 MW
Actual PLF	31.81%

Difference	+29.83%
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The observed PLF (31.81%) during the current monitoring period is 29.83% higher than the estimation in the registered VCS PD/3/. The current increase is 29.83% which is lower than breaching value 54.38%, therefore increase in PLF having no impact on the project additionality.

From April to September period is known as high wind season, that's why generation of each SPVs is significantly higher than the annual estimated energy generation.

The assessment team has verified the information flow (from data generation, aggregation, to recording, calculation and reporting for these parameters including the values) in the MR/1/. The emission reductions are purely based on the net electricity generated and exported from the WTGs.

PP has provided all the sufficient data for current monitoring period. The values of the parameter net electricity generation supplied to the grid by each phase used in deriving the GHG emission reduction could be very well correlated between the data sets and ER spreadsheet/2/ provided by PP. The verification of each monitoring parameter has been discussed later in section 4.5.

In section 4.5 of this report and section 5.4 of MR /1/ calculations have been stated which can be further compiled in ER/2/ that has been verified by the assessment team from REA statement/30/ submitted by PP and further cross verified from daily generation record and breakdown details /37/which is verified by the SCADA system during onsite inspection and submitted to assessment team by PP.

Hence VKU states that the calculation method and formulae used in calculating baseline emission is in compliance to the methodology used /14/. The calculation method and formulae used in calculating baseline emission is in compliance to the Methodology used i.e., ACM0002 Version 19 /14/ furthermore in conformance with section 3.15, clause 3.15.1//3.15.2//3.15.3//3.15.4 of VCS Standard version 4.5/10/. Since project activity is a wind power project, leakage emission and project emission have been considered as zero as per CDM applied methodology ACM0002 version 19/14/ para 34 for project emission and para 56 for leakage emission.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

During the verification, all relevant documents were checked to assess the correctness and quality of data submitted by the project participants, which are used to determine emission reductions.

The verification team reviewed the records required for monitoring, ensuring that they were archived in accordance with the registered monitoring plan. The purpose of this review was to confirm that the project had followed the prescribed procedures for data collection, storage, and reporting. No significant issues, lack of evidence, or missing data were identified during the verification process. This indicates that the project's monitoring system is effective in ensuring the quality of the monitored data. The verification team also confirmed that the project had implemented appropriate quality assurance and quality control measures for its internal data.

By conducting a comprehensive review of the relevant documents and data, the verification team ensures the integrity and accuracy of the project's monitoring system, providing confidence in the reported emission reductions.

The only monitoring parameter in the project activity is “EG_{PJ,y}” (Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh). This parameter is monitored through controlled reading of meters installed at Substation and source of data is Regional Energy Account statement issued by WRPC (Wester Regional Power Committee) and as per data furnished by WRLDC (Western Reginal Load Despatch Centre).

Table No 15: Metering and Evacuation

S.No.	Plant Site	Metering Voltage at Plant Site	Evacuation at Substation	In Compliance with
1.	Village: Ratadiya, District: Kutch State:Gujarat, India	33KV at 33kV/220KV Grid substation	Village: Ratadiya, District: Kutch State: Gujarat, India	Pictures taken at site through the GPS Camera by VVB and onsite inspection.

The below tables describe how the parameter EG_y, is to be measured according to the monitoring plan, has been verified to confirm that the actual monitoring complies with the monitoring plan, monitoring data has been thoroughly assessed and that the calibration requirements are met: -

Table No 16: Assessment of Parameter $EG_{PJ,Y}$ (Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh)

Parameter	EG _{PJ,Y} (Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh)	
Means of Verification		
	Criteria/Requirement	Assessment / Observation
	Measuring /Reading /Recording frequency	Continuous monitoring and at least monthly recording for net electricity generation. The quantity of net electricity generation supplied by the wind power plant to the grid is measured in megawatt-hours (MWh). The calculation of net electricity supplied to the grid is based on the measured values of REA statement /30/. To determine the net electricity supplied, Monthly REA statement/30/. Hence, Net electricity supplied to the grid by each Wind project is estimated as value mentioned in the REA statement.
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered VCS PD v02/3/ and monitoring methodology/14/. This was verified by assessment team during desk review and by

			Assessment Team during onsite visit and interviews with site personnel. The energy meters of L&T and Secure make of 0.2s accuracy class used to measure electricity exported / supplied by the plant to 3 nos (One each for SPV). Pooling substation and further to Grid substation. This meter also measures electricity imported by the plant from the grid. The above are verified through the technical specification of meters/33/ and found correct as per the onsite inspection.	
		Monitoring equipment	Yes, Energy meters are used as monitoring equipment to measure the net electricity supplied to the grid. The details of meters and calibration details are provided in APPENDIX 1 of MR/1/ which are assessed by calibration certificate/28/ and onsite interview and found correct.	
		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	Yes, the accuracy of the monitoring equipment (Energy Meters (EMs)) used to measure the input values to calculate net electricity generation value is of 0.2s accuracy class as stated in section 4.2 of the registered VCS PD v02/3/. Also, the same was verified from the energy meters installed at the	

	manufacturer's specification?	site (33KV) during onsite visit to the 33 KV/220KV Grid Sub Station. The assessment team also checked the calibration records under the Description of equipment that confirms the accuracy class as 0.2s. Hence Accepted.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes. The accuracy of monitoring equipment's is valid for the entire range which is as per registered VCS PD /3/. This was assessed by checking the calibration certificates/28/ of energy meters. Thus, the assessment team based on the calibration certificates/28/ states that the accuracy is valid for the entire measuring range of (1% to 200% of balanced load). The calibration is done beyond the control of PP by Electronic Larsen & Toubro Electrical & Automation. Hence, assessment team accepted the calibration certificates/28/ submitted by the PP.
	Calibration frequency /interval:	The calibration frequency of the meters used shall be once in every five years as per registered VCS PD v02/03/ The assessment team confirmed the frequency while interviewing /40/ the site personnel during onsite visit.

	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, or as per the manufacturer's specifications?	Yes. The calibration frequency of the meters used in the project activity is in accordance with the requirements specified in section 4.2 & 4.3 of the registered VCS PD v02/3/, is in accordance with the national standards i.e para 1 (b), Clause 18 of <u>Central Electricity Authority</u> (Installation and Operation of Meters) ⁷ Regulations, 2006, all interface meters, including those used in the project activity, are required to be tested at least once every five years. This was also confirmed during interview with onsite personnel, which is in line with VCS Standard version 4.5/10/ calibrations requirements as well as the registered monitoring plan.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Yes. Calibration of the measuring equipment's is carried out by Electronic Larsen & Toubro Electrical & Automation (Manufacturer Certificate of Electronic Trivector Meter Test Report) and same has been verified through calibration records and Interview with site personnel. The periodic calibration of both the main meters and

⁷ Regulations Notified on 17-March-2006 No. 502/70/CEA/DP&D Amendments Notified on 26-June-2010 No. In presence 502/6/2009/DP&D/D-I

		check meters ensures the accuracy of the measurements is in compliance with the clause 3.16.5 of VCS Standard version 4.5/10/. In accordance with the emergency procedure outlined in the registered VCS PD version 02/3/ and MR/1/, In case Main meter, Check meter or Standby meter is found to be outside the acceptable limits of accuracy or faulty or not functioning properly or will not validate during the crediting period, it will be repaired, recalibrated or replaced and error factor will be applied in the readings as per Annex 60 "Guidelines for Assessing compliance with the calibration frequency" error factor will be applied in the readings.	
	Is(are) calibration(s) valid for the whole reporting period?	Yes, the calibration frequency mentioned in VCS PD v02 dated: 27-December-2019/3/ once in five years is valid for the whole reporting period i.e., 01-October-2022 to 31-December-2023 (Inclusive of both the dates) and as per the selected frequency there are no delays in the calibration for the current monitoring period. Hence deemed satisfactory to the VVB.	

	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Yes. As per the calibration certificates/28/, issued by manufacturer of meter confirms that “All errors are in % Maximum limitation as per IS 14697 & IEC 62053-22 standards. The calibration is carried out appropriately as per the registered monitoring plan and VCS standard version 4.5/10/. The Project Proponent (PP) adheres to the national standards for meter calibration, as per the Central Electricity Authority (CEA) order dated 17-March-2006, which requires testing of meters every five years. The calibration is carried out appropriately by Electronic Larsen & Toubro Electrical & Automation (Electronic Trivector Meter Test Report).	
	How were the values in the monitoring report verified?	Cumulative value of electricity supplied to Grid (Wind) EGPI,y for entire monitoring period is reported in the monitoring report/1/, and monthly values in the ER calculation sheet/2/. The monthly values were verified by VKU's assessment team from the REA statement /30/ prepared through the new software of WRPC and as per data furnished by WRLDC and found to be consistent. Value of this parameter of Net	

		Electricity supplied to the grid for the current monitoring period was verified as 383,595 MWh (Round Down).	
	If applicable, has the reported data been cross-checked with other available data?	The monthly reported values of electricity supplied to Grid (Wind) EGPJ,y is recorded in an ER Sheet and were further checked from the monthly REA statement/30/ submitted by the PP and found to be consistent.	
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	On site personnel interview/40/ with the project stakeholder of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable for determining the net electricity supplied by the project plant/unit to the grid in year y. The desk review of Power Purchase Agreement/26/, REA statement/30/, and register monitoring plan/3/ confirms QA/QC processes in the current monitoring period.	
	In case project participants have temporarily not monitored the 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?	No such issues were observed during current monitoring period.	

Findings	CL01 were raised and resolved
Conclusion	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. The emission reduction calculation for the project activity is estimated based on the electricity supplied by the Project activity. Since 100% data was verified, the team can ascertain that the values adopted for emission reduction calculation are within threshold of materiality of 1%, as required by clause 4.1.8 of the VCS Standard version 4.5/10/

Table No 15: Data and Parameters Available at Validation or Ex-ante parameters:

Parameter	Unit	Description	Value	MOV
EF _{grid,OM,y}	tCO _{2e} /MWh	Operating margin CO2 emission factor of INDIAN Grid	0.9610 is consistent with the registered VCS PD version 02 /3/ <u>Calculated from CEA database, Version 14, June 2018/25/.</u>	The values are verified through desk review of the MR submitted /1/ and registered VCS PD v02 /3/ which found accepted.
EF _{grid,BM,y}	tCO _{2e} /MWh	Build margin CO2 emission factor of INDIAN grid	0.8644 is consistent with the registered VCS PD version 02 dated /3/ <u>Calculated from CEA database, Version 14, June 2018/25/.</u>	The values are verified through desk review of the MR submitted /1/ and registered VCS PD /3/ which found accepted.

EF _{grid,CM,y}	tCO _{2e} /MWh	Combined margin CO ₂ emission factor of INDIAN grid	0.9368 is consistent with the registered VCS PD v02/3/. The date has been considered in accordance to the “Tool to calculate emission factor of an electricity system”. The Central Electricity Authority (CEA) has provided estimates for the simple operating margin and build margin emission factors for the regional grids. In order to calculate the CO ₂ emission factor using the combined margin method for the second crediting period, weights of 0.75 for operating margin and 0.25 for build margin for the Indian grid are considered, as per the 'Tool to calculate the emission factor for an electricity system' (Version 07.0) and Tool for the demonstration and assessment of additionality (Version 07.0).	The values are verified through desk review of the MR submitted /1/ and registered VCS PD /3/ which found accepted.
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Calibration of meters: During the verification assessment of the project activity, accuracy of all the metering equipment have been checked and found appropriate. The installation and working conditions of the meters were checked during the site inspection and were found to be satisfactory. Details of meters are provided in below table:

Meter and Calibration details for “Renewable Wind Power Project by Adani” Plant Project are as follows- Table 17: Technical Specification and Calibration Details of Energy Meters

Name of the SPVs	Feeder Details	Meter Serial No.	Accuracy Class	Make	Date of Calibration ^s	Due date of
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						calibration ⁹
Wind Three Renergy Private Limited	Feeder-2	LT-0702-A (Main Meter)	0.2 s	L & T	13-June-2019	12-June-2024
		LT-0716-A (Check Meter)			13-June-2019	12-June-2024
	Feeder-4	LT-0746-A (Main Meter)			13-June-2019	12-June-2024
		LT-0750-A (Check Meter)			13-June-2019	12-June-2024
Wind One Renergy Private Limited	Feeder-5	LT-0754-A (Main meter)	0.2 s	L & T	13-June-2019	12-June-2024
		LT-0756-A (Check Meter)			13-June-2019	12-June-2024
	Feeder-9	LT-0782-A (Main Meter)			13-June-2019	12-June-2024
		LT-0783-A (Check Meter)			13-June-2019	12-June-2024
Adani Green Energy(MP) Limited	Feeder-304	RE-0026-A (Main Meter)	0.2 s	L & T	07-June-2019	06-June-2024
		RE-0037-A (Check Meter)			27-May-2019	26-May-2024
		GJU77231(St andbyMeter)	0.2 s	Secure	11-June-2019	10-June-2024
	Feeder-305	RE-0043-A (Main Meter)	0.2 s	L & T	27-May-2019	26-May-2024
		RE-0027-A (Check Meter)			07-June-2019	06-June-2024
		GJU77230(St andbyMeter)	0.2 s	Secure	11-June-2019	10-June-2024

Assessment on calibration:

The energy meter calibration certificates/28/ are checked and found that the calibration details provided in the MR /1/ are correct. From the verification of above table, verification team also confirms that the energy meter calibrations are valid for the complete monitoring period. The verification team has checked all the meters and confirmed that the meters were working satisfactorily. Also, the calibration of meters is completely under purview of state utility and PP has no control over the same as confirmed through interviews of site personnel and Power Purchase agreement/26/ and REA statement/30/.

⁹ At the time of commissioning, newly calibrated meters were installed. The calibration frequency is once in five years, and the calibrations are valid during the current monitoring period. Hence, no delay in error factor is applicable during the current monitoring period as per the onsite inspection and review of calibration records.

In view of the above discussion the assessment team is able to confirm that evidence used to determine the GHG reductions and removals are sufficient and appropriate with respect to quality and quantity.

GHG Calculations:

Emission factor and data and parameters available before validation are also applied in line with the registered PD/3/. According to the applied methodology ACM0002 version 19.0/14/ and the registered PD/3/, the GHG emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y - LE_y \quad \text{.....Equation (01)}$$

Where,

ER _y	=	Emission reductions in year(y)	(tCO ₂ e/year)
BE _y	=	Baseline Emission reduction in year(y)	(tCO ₂ e/year)
PE _y	=	Project Emission reduction in year(y)	(tCO ₂ e/year)
LE _y	=	Leakage Emission reduction in year (y)	(tCO ₂ e/year)

Leakage emissions reduction is zero (0) because the energy generating equipment is not transferred from or to another activity. Moreover, leakage emissions from the wind project activity is zero as per para 56 of ACM0002 version 19/14/.

LEy=0

According to applied methodology ACM 0002 v19.0/14/, for the Wind Plant Project Emission is zero as per para 56 of ACM0002 version 19/14/.

PEy = 0

So, ERy = BEy

Whereas,

BEy	=	$EG_{PJ,y} * EF_{grid,CM,y}$	Equation (02)
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The baseline emissions for the project activity for the current monitoring period are as follows. Baseline Emission factor, $EF_{grid,CM,y} = 0.9368 \text{ tCO}_2\text{e/MWh}$ as per the registered VCS PD/3/. The emission factor is fixed ex-ante combined margin as per the VCS registered VCS PD/3/.

Calculation of $EG_{PJ,y}$

The calculation of $EG_{PJ,y}$ is different for Greenfield plants, capacity additions, retrofits, rehabilitations, and replacements. These cases are described as follows:

$EG_{PJ,y} = EG_{facility,y}$ as per equation 12 (ACM0002, Version 19.0)/14/.

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 VCS project activity in year y (MWh/yr).
$EF_{grid,CM,y}$	Combined margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system” (tCO ₂ e/MWh)
$EG_{facility,y}$	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr)

Hence,

$$\text{BEy (for Period 01-october-2022 to 31-December-2022)} = 34019.69\text{MWh} * 0.9368$$

$$= 31869.645 \text{ tCO}_2\text{e}$$

$$= 31869 \text{ tCO}_2\text{e (Round Down)}$$

$$\text{BEy (for Period 01-January-2023 to 31-August-2023)} = 349,575.91\text{MWh} * 0.9368$$

$$= 327,482.71 \text{ tCO}_2\text{e}$$

$$= 327,482 \text{ tCO}_2\text{e (Round Down)}$$

$$\text{Total BEy} = 31869 \text{ tCO}_2\text{e} + 327,482 \text{ tCO}_2\text{e} = 359,351 \text{ tCO}_2\text{e}$$

Hence, the total emissions reduction for the current monitoring period is 359,351 tCO₂e.

DGR (Daily Generation Record) sheet attached in the Break Down record/9a/ of the current monitoring period from 01-October-2022 to 31-August-2023 (both dates are included). All data in emission reduction table are checked by the REA statement /30/ and DGR/29/ as main source. The net electricity generated during the current monitoring period was as follows in below table:

Table:18 Vintage Wise Actual Emission Reduction for current monitoring period

Period	Amount				Compliance Check
Year 2022 (1-October-2022 to 31-December-2022)	Net Generation (KWh): 34,019,686	Wind Three Renergy	Wind One Renergy	Adani Green (MP)	REA Statement /30/(Monthly)
		6,300,962	6,009,702	21,709,022	
Year 2023 (01-January-2023 to 31-August-2023)	Net Generation (KWh): 349,575,914	Wind Three Renergy	Wind One Renergy	Adani Green (MP)	REA Statement/30 / (Monthly)
		104,726,375	107,903,261	136,946,278	

Total Energy generation is 383,595.60 MWh (Round off 383,595 MWh)

The verification team attests to the correctness of the formulas and methodologies used to compute baseline emissions as per Para 42-page no. 33 of the Baseline and Monitoring Methodology ACM0002 “Grid Connected Renewable Electricity Generation from renewable sources” Version 19/14/. The applied default values, emission factors, and assumptions in the calculations are all reasonable.

The assumptions, emission factors and default values that were applied in the calculations are justified. The estimated emission reduction as per registered VCS-PD v02/3/ for the current monitoring period 01-October-2022 to 31-August-2023 (both dates inclusive) is 276,796 tCO₂, but the actual emissions achieved is 359,51 tCO₂.

It has been confirmed that the data used for emission reductions are correct. It is also confirmed that the methods and formulae used for calculating baseline emissions are in line with the applied CDM methodology/14/ and the registered PD/3/. The net electricity generation is multiplied by the grid emission factor to arrive at the emission reduction value.

According to the registered PD/3/, the estimated emission reduction for this monitoring period from 01-October-2022 to 31-August-2023 (both dates are included), would be 276,796 tCO₂e. However, the project in has achieved the total of emission reduction reached 359,351 tCO₂e, which is 82,555 tCO₂e (29.83%) more than the estimated. However, there were 0 emission reduction for month October and November of year 2022, for Wind Three Renergy and Wind One Renergy due to 220kV grid line failure. Verification Team assess the break down details and find the information about 220kV grid line failure rid breakdown is correct as per the breakdown record submitted by the PP/37/. The details of grids breakdown are mentioned in the table below;

Table 19: Breakdown details for current monitoring period

Site	Month (Year 2022)	Fault Description	Breakdown Hours (HH:MM)	Compliance With
Dayapar-SPV01	October	220kV Grid line Breakdown	744.00	Breakdown Record/37/ submitted by PP
Dayapar-SPV01	November	220kV Grid line Breakdown	720.00	Breakdown Record/37/ submitted by PP
Dayapar-SPV03	October	220kV Grid line Breakdown	744.00	Breakdown Record/37/ submitted by PP
Dayapar-SPV03	November	220kV Grid line Breakdown	720.00	Breakdown Record/37/ submitted by PP
Total available Hours	335*24=8040	Avg Breakdown Hrs 720+744=1464Hrs	18.20% Breakdown	Breakdown Record/37/ submitted by PP

Breakdown is due to 220kV grid line failure as per the onsite inspection and breakdown details/ 37/. From the above information assessment team concludes that the breakdowns and the resulting partial shutdown of the project activity do not have a significant impact on the calculation of emission reductions (ER). The project underwent continuous operation, with only the affected parts being temporarily shut down. This approach is deemed acceptable by the assessment team and is verified to align with the methodology. Furthermore, no unforeseen incidents were identified that would affect the applicability of the methodology.

Assessment of Justification for actual Emission Reduction more than estimated

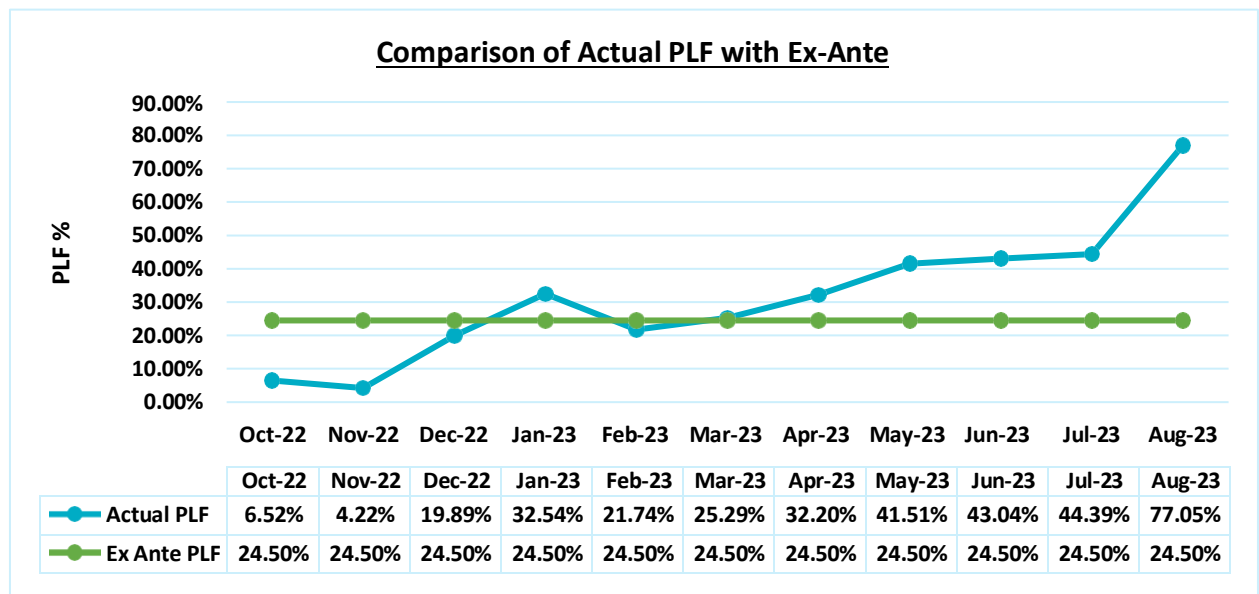
Based on the interview with the PP, it was determined that there are two types of seasons: the High Wind season and the Low Wind season. Due to climatic factors, the wind rate is exceptionally high during the months of April to August in the year 2023, which is beyond human control. Upon verifying the submitted document Wind Rate Record/45/, it was concluded that the wind rate during the months of April to August in the year 2023 is high, resulting in increased energy production. This information has been independently verified through a study report (page 21) <https://www.nrel.gov/docs/fy14osti/61741.pdf>, Change in wind Pattern, VKU further carried out independent verification of availability of high wind resource for the period April-August 23 through

https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/1421301.pdf

https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/2821301.pdf

https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/1105302.pdf

and could confirm that it does not impact the overall Plant Load Factor (PLF) in comparison to the validated PLF in the registered PD/3/. The additionality of the project remains unaffected. Therefore, the VVB accepts this justification.



The generation of electricity depends upon many other climatic conditions, which are not within the control of the project proponent. The lower generation during the current verification period is due to certain climatic variations due to change in season. Hence, it is acceptable to the VVB

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

VKU is of the opinion that this method of calculation of emission reductions is accurate and results in conservative estimation of emission reduction and is in line with the applicable VCS requirements set out in section 3.15 of VCS Standard version 4.5/10/ and that the verification of the GHG statement was conducted in accordance with ISO 14064-3; 2019).

4.6 Non-Permanence Risk Analysis

Since this is a Non-AFOLU projects there is no non-permanence risk that could lead to material errors, omissions or misstatements rating determined by the project proponent for the project activity and no risk was identified in the audit/verification plan hence not applicable.

5 VERIFICATION OPINION

M/S VKU Certification Private Limited. Concludes that this is the 3rd verification of the registered project activity “Renewable Wind Power Project by Adani” having VCS ID 2042. VKU Certification contracted by Adani Green Energy Limited to perform the independent verification of the emission reductions for the VCS project activity “Renewable Wind Power Project by Adani” in Gujarat, India for the monitoring period 01-October-2022 to 31-August-2023 (Inclusive of both days), with regards to the relevant requirements for VCS activities. As described in the report from section 1 to 4, VKU has performed the entire verification according to the verification criteria for projects and their GHG emission reductions or removals set out in VCS standard Version 4.5/10/.

The project participants of the “Renewable Wind Power Project by Adani” is responsible for:

- Preparation of greenhouses gas emissions data and the reporting of greenhouse gas emission reductions from the project on the basis set out in the monitoring, contained in the registered VCS PD v02/3/
- Development and maintenance of records and reporting procedures in accordance with that plan, including calculation and determination of greenhouse gas emission reductions of the project.

Based on documented evidence and corroborated by an on-site assessment, VKU can confirm:

- The project has been implemented and operated as per the registered VCS PD v02/3/.
- The monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS Standard version 4.5/10/ requirements;
- The monitoring is in place as per the applied baseline and monitoring methodology
- The monitoring plan in the registered VCS PD /3/ is as per the applied baseline and monitoring methodology.

It is the responsibility of VKU to express an independent verification opinion about the project's conformity with requirements of VCS Standard version 4.5/10/ and GHG program applied, on the reported greenhouse gas emission reductions from the project.

VKU Certification 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. VKU Certification planned and performed the verification by obtaining evidence and other information and explanations that VKU Certification considered necessary to give Reasonable level of assurance that reported GHG emission reductions are fairly stated.

It is VKU's opinion, the GHG emission reduction stated in the monitoring report version 2.0 dated 05-October-2023, of for the "Renewable Wind Power Project by Adani" for the period 01-October-2022 to 31-August-2023 (Inclusive of both dates) are fairly stated. The GHG emission reductions are calculated on the basis of approved methodology ACM0002 version 19.0/14/ and the monitoring plan included in the registered VCS PD 2.0 Dated: 27-December-2019/3/.

Hence, VKU is able to certify that the emission reduction from the project during the current monitoring period from 01-October-2022 to 31-August-2023(Inclusive of both dates) amounts to 359,351 tCO_{2e}.

VKU is an approved ISO 14064-3:2019 accredited Validation/Verification Body the assessment team meticulously followed the prescribed steps outlined in the standard, starting with Strategic Analysis, followed by Risk Assessment and the development of an Evidence Gathering plan. Subsequently, the team diligently executed the planned activities to collect the necessary evidence. To ensure comprehensive evaluation, an Audit plan was prepared, and an Onsite visit was conducted accordingly. Onsite activities were carried out in accordance with the pre-established Evidence Gathering plan. Following the completion of the onsite activities, VKU proceeded with the post-site evaluation, which involved scrutinizing supporting documents, Monitoring Reports (MR), and Emission Reports (ER). The project then underwent Independent Technical review. Adhering to the stipulated requirements, the assessment team formed a positive opinion based on their findings.

Table 20: The verification opinion is stated

Opinion	Final Documents	Monitoring Period	Emission Reductions achieved	Remarks
Positive opinion ☒ Negative Opinion ☐ Adverse Opinion ☐ Unmodified Opinion ☒ Modified Opinion ☐	Monitoring Report Version 02 dated: 05-October-2023 Emission Reduction Sheet Version 02 dated: 05-October-2023	01-October -2022 to 31-August-2023 (Inclusive of both the dates)	359,351 tCO _{2e}	The GHG emission reductions are calculated on the basis of approved methodology ACM0002: Grid-connected electricity generation from renewable sources — Version 19.0/14/ and the monitoring plan included in the registered PD v02, /3/

Hence VKU is able to certify that the emission reduction from the project during the current monitoring period 01-October-2022 to 31-August-2023 (Inclusive of both dates) amounts to 359,351 tCO_{2e} assessed in line with the applicable VCS requirements set out in section 3.15 of VCS Standard version 4.5/10/.

Hence the VVB hereby issue a positive and unmodified opinion in accordance with section 09 of ISO 14064-3; 2019 and section 9.7 specifically clause 9.7.1.6 & 9.7.2 of ISO 14065;2020 which

is meeting the requirement stipulated under ISO/IEC 17029:2019 section 9.7 with a reasonable level of assurance for the reported GHG emission reduction data which is free from any material misstatement and is sufficiently supported by evidences provided to VVB by PP tabulated in Table no 05 of this report.

The following table shows the Net Emission Reduction from 01-October-2022 to 31-August-2023 (Inclusive of both dates) of first crediting period. Verified GHG emission reductions and removals in the above verification period:

Verification period: From 01-October-2022 to 31-August-2023 (both dates are inclusive).

Table no 21: Verified GHG emission reductions and removals in the above verification period, broken down by calendar year:

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)
2022 (01-October-2022 to 31-December-2022)	31,869	0	0	31,869
2023 (01-January-2023 to 31-August-2023)	327,482	0	0	327,482
Total	359,351	0	0	359,351

Table No 22: Difference in Ex-ante and achieved emissions

Year	Ex-ante emissions reductions /removals	Achieved emissions reductions /removals	Percent difference	Justification for the difference
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2022 (01-October-2022 to 31-December-2022)	76,015.69	31,869	-ve 58.07%	No, need to provide justification because actual energy generation is below the estimated. Moreover, the actual generation is low because zero generation was observed in 2 SPV's in month October and November of year 2022 due to 220 kV grid line failure breakdown/37/ which is verified in above section.
2023 (01-January-2023 to 31-August-2023)	200,780.6	327,482	+ve 63.1%	During onsite interview with project representative, it was found that there are two types of seasons, one is low wind season and other is high wind season which is from April to September months. PP has also submitted the Wind Speed Record/44/ for showing the high speed of wind for current monitoring period. VKU has independently verified this through a study report (page 21) https://www.nrel.gov/docs/fy14osti/61741.pdf. Therefore, it concluded that the presence of high and low wind seasons as per the assessment of wind speed records/44/ and interview and independent resources.
Total	276,796 (Round Off)	359,351	-ve 29.83%	For this monitoring period (total 335days), PLF is 31.81% which is 29.83% lower than breaching value (54.38%) as per the registered PD v03. This is verified through the Daily Generation Record/28/ & Breakdown/37/ details submitted by the PP. For verification of PLF, verification team also conducted independent verification of availability of Highspeed wind resource during current monitoring period, through Indian Metrological Date warnings which links are provided below. 1. https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/1421301.pdf

			2. https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/2821301.pdf 3. https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/1105302.pdf Thus, verification team could confirm that High PLF was due to natural climatic conditions and justification given by PP also align with Tool for demonstration and assessment of Additionality" Version 07/16/.
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APPENDIX A: <ABBREVIATIONS>

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER(s)	Certified Emission Reduction(s)
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DISCOM	Distribution Company
EB	Executive Board
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
MoV	Means of Verification
MR	Monitoring Report
NGO	Non-governmental Organization
ODA	Official Development Assistance
PD	Project Description
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
REA	Regional Energy Account
SS(s)	Sectoral Scope(s)
TA(s)	Technical Area(s)
UNFCCC	United Nations Framework Convention on Climate Change
VCU	Verified Carbon Unit
VKU	VKU Certification Ltd.
VCS	Verified Carbon Standard
VVS	Validation and Verification Standard
VVB	Validation and verification body
WRPC	Western Regional Power Committee

WRLDC

Western Regional Load Despatch Centre

APPENDIX B: <AUDIT FINDINGS>

Type	Date	21-September-2023
CL-01	Reference	Section of Val/Ver protocol section
Description of the Non-Conformance		
From Review of ER sheet Version 01 following clarifications are required 1. What are the reasons of zero generation during October-November 2022 for "Wind Three" & "Wind One" Renergy SPVs 2. Why each SPV's monthly generation for period Jan-August 2023, is significantly higher than the annual estimated energy generation of 107310MW in the registered VCS-PD. 3. How does project continue to remain "Additional" due to higher Plant load factor during the current monitoring period. Please provide above information in MR & ER sheet		
1 st Response from PP	Date	05-October-2023
1. Zero generation during Oct.-Nov.2022 for "Wind Three" & "Wind One" Renergy SPVs due to 220kV grid line failure. Breakdown report has also been provided to the verification team. 2. From April to September period is known as high wind season, that's why generation of each SPVs is significantly higher than the annual estimated energy generation. 3. The observed PLF (31.81%) during the current monitoring period is 29.82% higher than the estimation in the registered VCS PD. Also, as per the registered VCS PD, the 54.38% increase in PLF would breach the threshold value of equity IRR value. The current increase is 29.82% which is lower than 54.38%, therefore increase in PLF having no impact on the project additionality.		
1 st Assessment by Audit Team	Status	Closed
	Date	12-October-2023
From Review of ER sheet Version 01 following clarifications are required 1. VKU could confirm that there was zero generation from "Wind Three" and "Wind One" Renergy SPVs during the months of October -November 2022. During onsite interviews it was confirmed that there was 220kV grid line failure and thus evacuation to grid has been interrupted. It was further confirmed through verification of the SCADA data. This justification is accepted by VVB hence, finding is closed.		

2. During onsite interview with project representative, it was found that there are two types of seasons, one is low wind season and other is high wind season which is from April to September months. PP has also submitted the Wind Speed Record for showing the high speed of wind for current monitoring period. VKU has independently verified this through a study report (page 21) <https://www.nrel.gov/docs/fy14osti/61741.pdf>. This report confirms the presence of high and low wind seasons So, as per the assessment of wind speed records and interview, the justification is accepted. Hence, finding is closed.

3. For this monitoring period (total 335 days), PLF is 31.81% which is 29.83% lower than breaching value (54.38%) as per the registered PD v03. This is verified through the Daily Generation Record & Breakdown details submitted by the PP. For verification of PLF, verification team also conducted independent verification of availability of Highspeed wind resource during current monitoring period, through Indian Metrological Date warnings.

https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/1421301.pdf

https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/2821301.pdf

https://mausam.imd.gov.in/backend/assets/cwc_ahmedabad_pdf/1105302.pdf

Thus, verification team could confirm that High PLF was due to natural climatic conditions and justification given by PP also align with Tool for demonstration and assessment of Additionality" Version 07. Hence, finding is closed.

Therefore, the Verification Team concludes that all items in CL 01 have successfully closed

2 nd Response from PP			Date	DD-Month-YYYY
Not Applicable				
2 nd Assessment by Audit Team	Status	Open/Closed	Date	DD-Month-YYYY
Not Applicable				

Type	Date	24-October-2023
CL-02	Reference	Section of Val/Ver protocol section 2, 3
Description of the Non-Conformance		
Section 1.6		
1. PP has mentioned that project activity adopts renewable crediting period of 10 years period which can be renewed for maximum 2 times. And as per registered PD lifetime of the WTGs is 25 years. So, please clarify the validity of the crediting period.		

Section 1.7

2. PP clarify that why Geo coordinates of pooling substations/Grid substations substation are not provided in section 1.7 of MR v02.

Section 1.8

3. PP to clarify the reference guidance document based on which large scale project classification is made.

Section 4.3

4. PP to clarify why “CDM team” is mentioned for a VCS project. Also clarify how the flow of monitoring information is conveyed within the organisation at the site.
5. PP to clarify, if there is delay in calibration of meters, what procedures are performed towards energy measurement in regards to Data Measurement.
6. PP to clarify the if the dates of monitoring period are not matching with the billing dates, then how measurement of energy generated will take place. As a part of Emergency preparedness PP needs to clarify how energy measurement will be performed if the meters are damaged during a man made or natural event.

1stResponse from PP	Date	25-October-2023
1. Project will claim ERs not more than its lifetime. Since the lifetime is 25 years, its renewal crediting period done after 10 years. 2. Geo coordinates of metering substation has now been provided in section 1.7 of the revised MR. 3. The reference has been taken from definitions of large project from VCS Program Definitions v4.4/12/. 4. Flow diagram has now been corrected. The meter readings are recorded electronically & accounts are prepared by WRPC and issued to SPVs. 5. The calibration of the energy meters is supposed to be carried out once in five years as per registered PD. If calibration of the energy meters will not be valid during the crediting period. Then, as per Annex 60 ¹⁰ ‘Guidelines for Assessing compliance with the calibration frequency’ error factor will be applied in the readings. 6. The whole energy measurement with done through REA and source is taken from REA. In addition to main meter & check meter, there is standby meter having separate CT & PT then main meter & check meter to continue the monitoring.		

1stAssessment by Audit Team	Status	Closed	Date	26-October-2023
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Section 1.6

1. As renewable of crediting period is subject of revalidation of project activity. So, justification is accepted. Therefore, finding is closed.

¹⁰ https://cdm.unfccc.int/EB/052/eb52_repan60.pdf

Section 1.7

2. PP has provided metering substation geo coordinates in section 1.7 of latest MR v03 and it found correct and compliance with the filling guideline requirement of MR template v4.2. Therefore, for finding is closed.

Section 1.8

3. PP mentioned reference guidance document and its link in footnote in latest MR v4.4. Therefore, finding is closed.

Section 4.3

4. Flow diagram has corrected and flow of monitoring information also provided in section 4.3. Therefore, finding is closed.
5. Justification found correct and compliance with CEA 2006 calibration rules and requirement. Therefore, finding is closed.
6. Justification provided by PP is correct therefore, finding is closed.

Therefore, the verification team concludes that all item in CI 02 have successfully closed.

Type	Date	22-September-2023
CAR 01	Reference	Section of Ver protocol, section 01
Description of the Non-Conformance		
Section 1.1 of MR 1. Complete information about the total number of WTGs and its capacity for each SPVs is missing. This is required as per ISO 14064-2, clause 4.3. 2. Details of all previous verification for project activity are missing in this section. This is required as per the ISO 14064-2, clause 4.3, and filling guidelines mentioned in the MR Template v4.2n. Section 1.10 of MR 3. Statement about the supply chain (scope 3) is missing in this section. This is required as per filling guideline, of monitoring template v4.3 & section 3.24 of the VCS Standard 4.5. Section 1.11 (Table 1 Sustainable Development Contribution) 4. SDG Target for SDG Indicators 13.2.2, 8.6.1 are not Correct.		

5. For SDG Indicator 8.6.1, PP shall have to provide training records & supporting evidences.				
1 st Response from PP		Date	05-October-2023	
1. Section 1.1 has now been updated of the revised MR. 2. Details of all previous verification for project activity has been provided in section 1.1 of the revised MR. 3. Statement about the supply chain (scope 3) has been updated in section 1.10 of the revised MR. 4. SDG Target for SDG Indicators 13.2.2, 8.6.1 has been corrected in section 1.11 of the revised MR. 5. Training Records has now been provided to the verification team.				
1 st Assessment by Audit Team	Status	Closed	Date	12-October-2023
Section 1.1 of MR 1. Section 1.1 of MR has updated by including the total number of WTGs and their respective capacities for each SPVs Project activity are 74 WTGs (Wind Three Renergy Pvt. Ltd. 25*2.0MW, Wind One Renergy Pvt Ltd. 25* 2.0 MW, and Adani Green Energy (MP) Ltd 24* 2.1 MW). This is verified through the Onsite Inspection & through review of SCADA on line continuous monitoring 29/10/2023. Hence finding is closed. 2. The revised MR version 02, contains comprehensive information regarding validation and the two preceding verifications with ongoing verification. Hence, finding is closed. Section 1.10 of MR 3. The Project Proponent has included justification for the supply chain (Scope 3) in the section1.10. During on site visit, it has been verified that no supply chain GHG emissions (Scope 3) are applicable for the project activity as this is wind plant for energy generation. Hence, finding is closed. Section 1.11 (Table 1 Sustainable Development Contribution) 4. SDG Targets has corrected in the table 1 of this section in revised MR v02. Hence, finding is closed. 5. PP has submitted requisite training records for the assessment of SDG Indicator 8.6.1. Monitoring of SDG have been included in Appendix III. Hence, finding is closed. Therefore, the Verification Team concludes that all items in CAR 01 have successfully closed.				
2 nd Response from PP		Date	DD-Month-YYYY	
Not Applicable				
2 nd Assessment by Audit Team	Status	Closed	Date	DD-Month-YYYY
Not Applicable				

Type	Date	21-September-2023		
CAR 02	Reference	Section of Val/Ver protocol section		
Description of the Non-Conformance				
Section 2.2 - MR does not follow the guidelines mentioned in the MR template, v4.2. on the mechanism for on-going communication with local stakeholders. - How due account of all and any input received during ongoing communication has been taken. Include details on any updates to the project design or justify why updates are not appropriate.				
1 st Response from PP		Date	05-October-2023	
- Section 2.2 has now been updated of the revised MR. - The project proponent has devised a system for continuous local stakeholder interaction during the operation of the project. Local stakeholders are allowed to visit the project site and raise their concern about the project. A grievance register is maintained at the project site in which the feedback and concerns are reported. There is no adverse comment recorded to be reported during the monitoring period under consideration. The copy of grievance register is submitted to the VVB. The same is now described in the revised MR.				
1 st Assessment by Audit Team	Status	Closed	Date	12-October-2023
Section 2.2 - This section has been updated by the PP in MR version 02. PP has included information about the role of Adani Foundation in maintaining continuous communications with stakeholders and it's also conduct social well fair activities and substantiated it with requisite presentation of activities pictures. Hence, finding is closed. - Above justification are in compliance with the VCS standard v4.5 and onsite interview. It has been verified that no grievances were recorded in grievance register & complaint box maintained at project site. Hence, finding is close. Therefore, the Verification Team concludes that all items in CAR 02 have successfully closed.				
2 nd Response from PP		Date	DD-Month-YYYY	
Not Applicable				
2 nd Assessment by Audit Team	Status	Open/Closed	Date	DD-Month-YYYY

Not Applicable

Type			Date	21-September-2023
CAR 03			Reference	Section of Val/Ver protocol section 3
Description of the Non-Conformance				
Section 3.1				
1. Generic statement "last two months" mentioned in this section needs to be made more specific.				
Section 4.2 & 5.1				
2. In section 4.2 Parameter EG _{PJ,y} "Value monitored" & Calculation of baseline emissions in section 5.1 are not tabulated for each respective year, as per requirement of methodology ACM 0002 version 19.				
1 st Response from PP			Date	05-October-2023
1. Section 3.1 has now been updated of the revised MR.				
2. Calculation of baseline emissions for each respective year has been provided in section 5.1 of the revised MR.				
1 st Assessment by Audit Team	Status	Closed	Date	12-October-2023
Section 3.1				
1. PP has revised the MR, to clearly specify months of October and November 2022. PP has also submitted breakdown details in updated MR v02. Hence, finding is closed Successfully.				
Section 4.2 & 5.1				
2. Calculation for baseline emission reductions is now available for each respective years in the revised MR version 02. In section 5.1, the Project Proponent has also incorporated a table containing comprehensive monthly electricity data and the corresponding Plant Load Factor (PLF). Hence, finding is closed successfully.				
Therefore, the Verification Team concludes that all items in CAR 03 have successfully closed.				
2 nd Response from PP			Date	DD-Month-YYYY
Not Applicable				
2 nd Assessment by Audit Team	Status	Open/Closed	Date	DD-Month-YYYY

Not Applicable

Type	Date	24-October -2023
CAR 04	Reference	Section of Val/Ver protocol section 1, 2 and 3
Description of the Non-Conformance		
Introductory Table - Monitoring Period is not clearly stating inclusion of both start date and end dated. Section 1.1 (Table) - Numbers of year representation is not in compliance with guidance given in MR Template v4.2. - For first verification, total number of days has not stated correctly. - The relevance of numbers of years against validation has not been mentioned Section 1.2 - The status of the project activity against AFLOU is not mentioned as per filling guidelines of VCS monitoring report template v4.2. Section 1.8 - PP has not provided web links of “Tools” mentioned in this section. Section 1.10 - The reference link for REC registry is not provided. Section 1.11 (Table 1) - For all SDG target project contributions values are not clearly stated and also found inconsistent with ER.		
1 st Response from PP	Date	25-October-2023
- Monitoring Period has now clearly stated in Introductory table. - Numbers of year representation has now been corrected as per MR template. - For first verification, total number of days has now been corrected. - Project will claim ERs not more than its lifetime. Since the lifetime is 25 years, its renewal crediting period done after 10 years. - The status of the project activity against AFLOU has now been mentioned in section 1.2. - Web links of Tools has now been provided in section 1.8. - Reference link for REC registry has now been provided in section 1.10. - For all SDG target project contributions values has now been corrected in section 1.10.		
1 st Assessment by Audit Team	Status	Closed
Date	26-October-2023	

Introductory Tab

1. Latest MR v03 has now clearly stated monitoring period both start date and end date. Therefore, finding is closed.

Section 1.1 (Table)

2. Number of years has now correctly represented in Table of section 1.1. Therefore, finding is closed.
3. Now total number of days are corrected. Therefore, finding is closed.
4. It is subject to revalidation of crediting period. So, justification is accepted and therefore finding is closed.

Section 1.2

5. Latest MR v03 has updated the status of project activity against AFLOU as per the filling guidelines of VCS monitoring report template v4.2. Therefore, finding is closed.

Section 1.8

6. Weblinks has provided in footnote for the Tools in latest MR v03. Therefore, finding is closed.

Section 1.10

7. Weblink has provided for REC registry in latest MR v03. Therefore, finding is closed.
8. All SDG target's project contribution value has corrected in latest MR v03. Hence, finding is closed.

Therefore, the Verification Team concludes that all items in CAR 03 have successfully closed.

2 nd Response from PP			Date	DD-Month-YYYY
Not Applicable				
2 nd Assessment by Audit Team	Status	Open/Closed	Date	DD-Month-YYYY
Not Applicable				

Type	Date	24-September-2023
CAR 05	Reference	Section of Val/Ver protocol section 1, 2 and 3
Description of the Non-Conformance		
Section 3.1		
1. PP has not provided details of specification of the transformer used to step up voltage and pooling substation and other important component of PSS.		

2. There is inconsistent use of term WTGs and WEC term.

Section 4.2

3. In column of Monitoring Equipment PP has not provided information of meters location and owner of meters.

Section 5.4

4. Duration of Ex-Ante emission reduction/removals has not mentioned in the table of Justification.

Appendix I

5. PP has not provided information about the previous calibration dates and validity

Appendix II

6. Since ER is higher than estimated for the equivalent time period, PP has not elaborated the breakdown hours as percentage of operating hours.

1 st Response from PP	Date	25-October-2023
1. Transformer details has now been provided in section 3.1 of the revised MR. 2. Term has now been corrected in section 3.1 of the revised MR. 3. Information of meters location and owner of meters has now been provided in section 4.2 of the revised MR. 4. Duration of Ex-Ante emission reduction/removals has now been mentioned in the table of Justification. 5. At the time of commissioning, newly calibrated meters were installed. The calibration frequency is once in five years, and the calibrations are valid during the current monitoring period. 6. Breakdown summary and percentage of hours has been provided in Appendix II of the revised MR.		

1 st Assessment by Audit Team	Status	Closed	Date	26-October-2023
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Section 3.1

1. In latest MR v03 transformer details added in the technical specification. Therefore, finding is closed.

2. Term has corrected in latest MR v03. Therefore, finding is closed.

Section 4.2

3. Information about meters location and owner of meters are provided in the footnote. Therefore, finding is closed.

Section 5.4

4. Duration of Ex-Ante emission reduction/removals has mentioned in latest MRv03. Therefore, finding is closed.

Appendix I

5. As new energy meters installed at time of commissioning, and calibration certificate was issued by the manufacturer. The calibration frequency is once in five years, and the calibrations are valid during the current monitoring period. Therefore, finding is closed.

Appendix II

6. Breakdown summary and percentage of hours has mentioned in the latest MRv03 and verification team finds it correct as per the breakdown details and DGR records. Therefore, finding is closed.

Therefore, the Verification Team concludes that all items in CAR 03 have successfully closed.

2 nd Response from PP			Date	DD-Month-YYYY
Not Applicable				
2 nd Assessment by Audit Team	Status	Open/Closed	Date	DD-Month-YYYY
Not Applicable				

Type	Date	~~DD-Month-YYYY~~		
FAR	Reference	~~Section of Val/Ver protocol~~		
Description of the Non-Conformance				
1 st Response from PP		Date	~~DD-Month-YYYY~~	
1 st Assessment by Audit Team	Status	~~Open/Closed~~	Date	~~DD-Month-YYYY~~
2 nd Response from PP		Date	~~DD-Month-YYYY~~	

~~2nd Assessment by Audit Team~~	Status	~~Open/Closed~~	Date	~~DD-Month-YYYY~~

There is no FAR raised during this monitoring period for upcoming assessment.

APPENDIX C: <COMPETENCY STATEMENT>



Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Sanjay Kumar K
Nationality	Indian
Countries of Experience	India
Education Qualification	B.E. (Civil Engineering) M. Tech (Environmental Engineering)
Year of Experience	20 Years +
Area of Expertise	Climate Change & Environment Sustainable Development GHG Footprints
Eligible Sectoral Scope	TA 1.2 - Renewables TA 3.1 - Energy Demand TA 6.1 - Construction

Roles

Project Trainee	NO
Validator/Verifier Trainee	NO
Validator	YES
Verifier	YES
Team Leader	YES
Technical Reviewer	YES
Local Expert (Country Wise)	YES
TA Expert (1.2, 3.1, 6.1)	YES
Financial Expert	YES

Reviewed by	Vandana Gupta (Quality Manager)	Date	03.03.2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	03.03.2023



Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Sunil Kathuria
Nationality	Indian
Countries of Experience	Malaysia, Uganda, Kenya, South Africa, Nigeria Bangladesh, China, Vietnam, Thailand, Philippines, United Kingdom, Germany, USA
Education Qualification	B.E. (Electrical Power)
Year of Experience	40 Years
Area of Expertise	Climate Change & Environment Energy Generation / Distribution GHG Footprints Manufacturing Sector
Eligible Sectoral Scope	TA 1.1 - Thermal energy generation TA 1.2 - Renewables TA 2.1 - Energy distribution TA 3.1 - Energy Demand (General & Cook Stove) TA 4.1 - Cement and lime production (Manufacturing Industries)

Roles

Project Trainee	NO
Validator/Verifier Trainee	NO
Validator	YES
Verifier	YES
Team Leader	YES
Technical Reviewer	YES
Local Expert (Country Wise)	YES
TA Expert (1.1, 1.2, 2.1, 3.1, 4.1)	YES
Financial Expert	NO

Reviewed by	Vandana Gupta (Quality Manager)	Date	13/05/2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	13/05/2023



Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Aastha Verma
Nationality	Indian
Countries of Experience	India
Education Qualification	B.Sc. (Zoology Hons.) M.Sc. (Environmental Science)
Year of Experience	1 year
Area of Expertise	Climate Change & Environment
Eligible Sectoral Scope	NA

Roles

Project Trainee	NO
Validator/Verifier Trainee	YES
Validator	NO
Verifier	NO
Team Leader	NO
Technical Reviewer	NO
Local Expert (Country Wise)	NO
TA Expert (X.X)	NO
Financial Expert	NO

Reviewed by	Vandana Gupta (Quality Manager)	Date	19/05/2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	19/05/2023



Certification Pvt. Ltd.

VKU.F50W. Competence Statement

COMPETENCE STATEMENT

Name	Sanjana Bhana
Nationality	Indian
Countries of Experience	India
Education Qualification	M.Sc. (Environmental Science) B.Sc. (Biotechnology)
Year of Experience	1+ Year
Area of Expertise	Environmental Compliance Management
Eligible Sectoral Scope	NA

Roles

Project Trainee	YES
Validator/Verifier Trainee	NO
Validator	NO
Verifier	NO
Team Leader	NO
Technical Reviewer	NO
Local Expert (Country Wise)	NO
TA Expert (X.X)	NO
Financial Expert	NO

Reviewed by	Vandana Gupta (Quality Manager)	Date	05/06/2023
Approved by	Vivek Kumar Ahirwar (Technical Manager)	Date	05/06/2023