



**Verified Carbon
Standard**

A VERRA STANDARD

108 MW FATANPUR WIND POWER PROJECT IN MADHYA PRADESH



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Summary:

Verification purpose: The project is undertaken by “Vena Energy Fatanpur Power Private Limited (Formerly Energon RJ Wind Power Private Limited)” Bangalore, India. The project activity envisages implementation of 108 MW wind power project promoted by Energon RJ Wind Power Private Limited (It was renamed as Vena Energy Fatanpur Power Private Limited on 5 September 2018). The project consists of 54 numbers of Gamesa G97 Wind Turbine Generators (WTGs) of 2.0 MW capacities each. The technology of electricity generation from wind power is environment friendly as it does not use any fossil fuel. It thereby reduces the greenhouse gas emissions associated with fossil fuel based electricity generation system.

The electricity generated by the project is exported to the Indian electricity grid. Therefore, the project activity is displacing an equivalent amount of electricity which would have been otherwise generated in fossil fuel dominant electricity grid.

Start date of the project activity is 11-March-2016. An undertaking has been submitted by PP for double counting confirming that no GHG reduction will be claimed in any other GHG mechanism for current monitoring period.

This is the 3rd monitoring report under VCS covers activity from 01-December-2019 to 31-December-2021 (inclusive both days). During the Current Monitoring Period the GHG emission reductions calculated are 386,626 tCO₂.

VCS crediting period is of 10 years. The start date of crediting period is 11-March-2016 to 10-March-2026 and then for another period of 20 Years (10 years, renewable twice).

A risk-based approach has been followed to perform this verification activity. In the course of verification, 05 Corrective Action requests (CAR), 01 Clarification Requests (CLs) and 00 Forward action requests (FARs) were raised and successfully closed. The review of the Monitoring report and

additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and PP have provided VVB with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred to as Applus+ Certification) has been appointed by “Vena Energy Fatanpur Power Private Limited” to perform the verification of the “108 MW Fatanpur Wind Power Project in Madhya Pradesh” under VCS standard 4.2 and VCS Program guide version 4.1. The objective of this verification activity is to have an independent third party for the assessment of the project design, monitoring report and Final Verification report and to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements. In particular; the project's baseline is assessed against applied methodologies “ACM0002 (version 17) - Consolidated baseline methodology for grid-connected electricity generation from renewable sources. The project’s compliance with the requirements of 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 made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS program guide 4.1 and standard, version 4.2

- CDM Validation and Verification Standard for project activities, version 03.0
- VCS standard version 4.2
- VCS program guide version 4.1

Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified carbon units (VCUs).

The scope of the verification is the independent and objective review of the monitoring report (MR). The MR is reviewed against the relevant criteria (see above) and decisions by the CDM Executive Board and VCS executive board, including the approved baseline and monitoring methodology. The verification was based on the guidance given in the CDM Validation and Verification Standard for the project activities, version 03.0, review against registered VCS-PD and Final Validation report, ; and VCS program guide, version 4.1 and standard version 4.2.

The assessment team has employed a risk-based approach to assess the completeness and accuracy of the claims and conservativeness of the assumptions in the MR. The main focus of the assessment team is to identify the significant risks for the project implementation and the generation of VERs. The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring report combined.

The only purpose of the verification is its usage during the issuance process as part of the VCS project cycle. Therefore, LGAI Technological Center S.A. (Applus+ Certification) can't be held liable by any party for decisions made or not made based on the verification opinion, which will go beyond that purpose.

The verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. No sampling procedure applied for on-site audit or document verifications. The entire documents checked/plant verification conducted to arrive at positive verification conclusions.

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1 INTRODUCTION

1.1 Objective

LGAI Technological Center S.A. (Hereinafter referred as Applus+ Certification) has been appointed by “Vena Energy Fatanpur Power Private Limited” to perform the 3rd periodic verification of the project entitled “108 MW Fatanpur Wind Power Project in Madhya Pradesh” under VCS standard version 4.2 and program guide version 4.1. The objective of this verification activity is to have an independent third party for the assessment of the project design, monitoring report and final verification report and to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements. In particular;

The project's baseline plan is assessed against applied methodologies – ACM0002 (version 17) “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”.

The project's compliance with the requirements of 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 made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS program guide, version 4.1 and standard version 4.2.

CDM Validation and Verification Standard for project activities, version 03.0

Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of estimated verified carbon units (VCUs).

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR) prepared as per the registered VCS-PD and registered approved methodologies ACM0002 version 17. The MR is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board and VCS standard, version 4.2 and VCS Program guide version 4, including the approved baseline and monitoring methodologies applied. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 03.0, and VCS program guide, version 4.1 and standard version 4.2.

The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the Monitoring report. In line with Guidelines for Application of materiality in

verifications, the verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction calculation spread sheet. There are no material errors, overestimation of ER, omission or misstatement. The verification team has reviewed all the documents like commissioning certificate, Energy generation records, fuel records etc.

1.3 Level of Assurance

The verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. The entire documents checked/Power plant verification conducted to arrive at positive verification conclusions.

1.4 Summary Description of the Project

The project undertaken by Vena Energy Fatanpur Power Private Limited, has implemented a 108 MW wind power project in the state of Madhya Pradesh in India. The project activity comprises of 54 numbers of Gamesa G97 Wind Turbine Generators (WTGs) of 2.0 MW capacities each.

The purpose of the project activity is to export the generated electricity to the Indian grid. The project activity helps to reduce the supply demand gap in the state and also helps in contributing to the sustainable development by using wind energy as the source of power generation and reduction of GHG Emissions.

During the Current Monitoring Period from 01-December-2019 to 31-December 2021 (First and last date included) the project activity has supplied 395,446 MWh of electricity, and thus contributing to the GHG reductions 386,626 tCO₂e.

2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification Process: The project assessment is based on the Clean Development Mechanism Validation and Verification Standard for project activities, version 03.0 and VCS standard 4.2 and VCS program guide, version 4.1 and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the VCS project activity are appointed.

Once the project is received by the assessment team, the members of the assessment team carried out:

1. A desk review of the monitoring Report against the registered PD;
2. Onsite audit;
3. The resolution of outstanding issues and the issuance of the final verification report and opinion.

The prepared verification report and other supporting documents then undergo an internal quality control at the HQ (Accredited office) before being submitted to the VCS executive board.

In order to ensure transparency, assumptions must be clear and stated explicitly and background material must also be referenced. LGAI Technological Center, S.A. (Applus+ Certification) has developed a specific checklist customized for the project. The checklist demonstrates, in a transparent manner, the project criteria (requirements), discussion on each criterion by the assessment team, and the results from verifying the identified criteria.

Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, LGAI Technological Center S.A. (Applus+ Certification) has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of LGAI Technological Center S.A. (Applus+ Certification).

The composition of audit team shall be approved by the LGAI Technological Center S.A. (Applus+ Certification) ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT)
- Technical Expert (TE)
- Technical Reviewer (TR)

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Pankaj Kumar	LA/TE	YES	YES	NA	YES
Simon Shen	TR	YES	YES	NA	NA

The complete list of CVs is included as Appendix 3 of this report.

Document review

The Monitoring Report version 1 submitted by the PP was reviewed against the approved methodology, registered PDD, final validation report and other relevant criteria to verify the correctness, credibility, and interpretation of the presented information. Furthermore, a cross-check between information provided and information from other sources has been done. A complete list of all documents and evidence material reviewed is included in this report below in appendix 1.

On-site Assessment and Follow-up interviews

An on-site audit was conducted by LGAI Technological Center S.A. (Applus+ Certification) and performed physical interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. The detail is provided in this report in the below sections.

Resolution of Clarification and Corrective Action Request

The objective of this phase of the Verification was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for Applus+ Certification positive conclusion on the Monitoring report. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the verification process, the concerns raised and responses given are summarized below in the Appendix 2.

The final MR Version 02 submitted by PP on 20-April-2022 serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Internal quality control

As final step of a verification of the final documentation including the final verification report and the checklist have to undergo an internal quality control by the technical review committee, i.e., each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one to avoid any conflict of Interest.

After confirmation of the project owners, the positive verification opinion and relevant documents are submitted to the VCS secretariat through the VCS web-platform.

2.2 Document Review

The details of the document observed during the verification process are listed below in appendix 1 of this report.

2.3 Interviews

An on-site audit was conducted for the project activity on 12-April-2022.

Technical details & metering/monitoring arrangement verified through onsite photographs/name plates and calibration certificates shared by PP. All the documents were cross checked to ensure conservative estimation of emission reduction.

During the on-site audit, the PP representatives were questioned about the implementation of the project activity. Several topics like the verification of commissioning date of equipments, generation records, and monitoring of the data and the error accountability were discussed. To cross check the information provided by PP, various documents like technical specifications, commissioning certificates, PPA, Plant records, Energy Generation Record sheets, invoice, calibration certificates etc. were also verified. The names of the persons interviewed during the on-site audit through is given below;

Organization	Name of Persons/Designation	Topics discussed	Team Member
Kosher Climate India Private Limited	Vamsi Krishna M, CAB Head	Project activity implementation Operation, Calibration, O&M practices, ENERGY GENERATION RECORDS etc. LSC mechanism Mechanical maintenance	Pankaj Kumar (Lead Auditor)
Vena Energy Fatanpur Power Private Limited	Rajesh Gathala	Electrical maintenance Project description Invoicing practices Project activity implementation Operation, Calibration, O&M practices, ENERGY GENERATION RECORDS etc. LSC mechanism	
Energon RJ Wind Power Private Limited	Ashish Tiwari	Mechanical maintenance Electrical maintenance Project description Invoicing practices MR, ER calculations etc.	
Vena Energy Fatanpur Power Private Limited	Rajesh Kumar		

2.4 Site Inspections

On-site Audit: 12-April-2022				
No.	Activity performed on-site	Site location	Date	Team member
1.	Assessment team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring. Assessment team also checked that whether the monitoring plan as described in the VCS PD is actually practised onsite. Also, assessment team checked any change in host country criteria which may affect the baseline of the project activity.	Ujjain and Dewas district of Madhya Pradesh State, India.	12-April-2022	Pankaj Kumar (Lead Auditor)

2.5 Resolution of Findings

The objective of this phase of the verification was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for LGAI Technological Center S.A. (Applus+ Certification)'s positive conclusion on the project design and Monitoring report. The Corrective Action Requests and Clarification Requests raised by LGAI Technological Center S.A. (Applus+ Certification) were resolved during communications between the Client and LGAI Technological Center S.A. (Applus+ Certification) to guarantee the transparency of the validation process, the concerns raised and responses given are summarized below in the appendix 2.

The final MR Version 02 submitted by project owners on 20-April-2022 serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Project design document and Monitoring report	00	00	00
Description of project activity	00	01	00
Application of selected baseline and monitoring methodology and selected standardized baseline			
- Applicability of methodology and standardized baseline	00	00	00
- Deviation from methodology	00	00	00

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
- Clarification on applicability of methodology, tool and/or standardized baseline	00	00	00
Project boundary	00	00	00
Establishment and description of baseline scenario	00	00	00
Demonstration of additionality	00	00	00
Emission reductions	01	00	00
Calibration details	00	01	00
Monitoring plan	00	00	00
No Net harm assessment	00	00	00
Local stakeholder consultation	00	00	00
Others (please specify)- - Regarding double counting Declaration - ER Sheet - Supporting documents	00	03	00
Total	01	05	00

The list of findings and their resolution is presented in appendix 2 of this report.

2.5.1 Forward Action Requests

This is 3rd periodic verification of the project activity and no FAR was raised from previous verification or validation /and during this verification process.

2.6 Eligibility for Validation Activities

This section is not applicable for present verification, as Applus+ Certification holds the accreditation for Validation of projects under this Sectoral Scope..

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project activity is first registered under VCS (<https://registry.verra.org/app/projectDetail/VCS/1746>) with fixed crediting period as 11-March-2016 to 10-March-2026.

The undertaking dated 20-April-2022 is provided by PP to confirm that the project has not sought or received another form of GHG-related environmental credit and hence there is no any double accounting for current monitoring period. The same is confirmed by verification of other GHG mechanism registries such as CDM, Gold Standard, GCC etc. Verification team has also checked International REC registry (I-REC) & REC India registry and confirms that project activity is not availing any REC benefits.

3.2 Methodology Deviations

The project activity is no request for deviation applied during this monitoring period.

3.3 Project Description Deviations

There is no project description deviation applied during this monitoring period.

3.4 Grouped Project

The project does not involve any addition of new project activity and thus the project do not fall under grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the on-site verification, it was concluded that the project is implemented as per VCS PD and this is verified from the commissioning certificate submitted. During the current monitoring period it was observed that no unforeseen situation evolved which can impact the operation of the project activity. The same was verified through the shutdown summary sheet of the project activity submitted. Scheduled maintenance was carried out as per the instruction of the manufacturer and the same is acceptable to the assessment team.

Project location is confirmed by the assessment team through interview with PP during on-site audit and assessment of monitoring report. Assessment team also checked the technical details of the project site containing latitude and longitude of the project site and confirmed that the details as mentioned in the registered PD are correct.

The project activity is located at Ujjain and Dewas district of Madhya Pradesh State, India. The geo-coordinates of location of the project activity are as follows:

S.No	WTG No	Village	Taluk	District	Latitude	Longitude
1	GF-01N2	Tonk kalan	Tonkkhurd	Dewas	23.11165	76.16163
2	GF-03N3	Tonk kalan	Tonkkhurd	Dewas	23.09773	76.1649
3	GF-06N	Kalama	Tonkkhurd	Dewas	23.09149	76.16223
4	GF-07N1	Nandel	Tonkkhurd	Dewas	23.07842	76.17004
5	GF-08N2	Nandel	Tonkkhurd	Dewas	23.07517	76.16557
6	GF-10N	Nandel	Tonkkhurd	Dewas	23.06392	76.18173

7	GF-110N5	Khareli	Tonkkhurd	Dewas	23.21342	76.20812
8	GF-122N3	Upadi	Tarana	Ujjain	23.0769	76.11671
9	GF-123N	Jhajuria	Tarana	Ujjain	23.11701	76.08299
10	GF-125N	Kathbadoda	Tarana	Ujjain	23.12293	76.08401
11	GF-126N1	Tonk kalan	Tonkkhurd	Dewas	23.0959	76.11686
12	GF-127N	Tonk kalan	Tonkkhurd	Dewas	23.10679	76.11251
13	GF-129N	Khajuriya	Tarana	Ujjain	23.10788	76.09603
14	GF-132N4	Barkheda	Tarana	Ujjain	23.0731	76.11162
15	GF-133N2	Barkheda	Tarana	Ujjain	23.06762	76.10838
16	GF-134N2	Barkheda	Tarana	Ujjain	23.05925	76.10921
17	GF-135N2	Barkheda	Tarana	Ujjain	23.05371	76.10084
18	GF-144N	Bhirwakhedi	Tonkkhurd	Dewas	23.13373	76.1641
19	GF-149N4	Banarasi	Tonkkhurd	Dewas	23.13412	76.08225
20	GF-154N	Khajuria	Tarana	Ujjain	23.1129	76.09178
21	GF-161N	Upadi	Tarana	Ujjain	23.10144	76.0985
22	GF-162N	Khajuria	Tarana	Ujjain	23.10665	76.07376
23	GF-163N	Banarsi	Tonkkhurd	Dewas	23.144	76.07643
24	GF-165N	Banarsi	Tonkkhurd	Dewas	23.13702	76.07503
25	GF-17N2	Nandel	Tonkkhurd	Dewas	23.05493	76.16877
26	GF-18N2	Janolibujung	Tonkkhurd	Dewas	23.03759	76.16923
27	GF-22N1	Nipaniya	Tonkkhurd	Dewas	23.11878	76.19369
28	GF-23N3	Polay	Tonkkhurd	Dewas	23.10386	76.19617
29	GF-24N2	Nipaniya	Tonkkhurd	Dewas	23.12257	76.19533
30	GF-25N1	Nipaniya	Tonkkhurd	Dewas	23.13025	76.18838
31	GF-26N2	Nipaniya	Tonkkhurd	Dewas	23.12691	76.19547
32	GF-27N2	Dehriya	Tonkkhurd	Dewas	23.07294	76.22128

33	GF-28N2	Dehriya	Tonkkhurd	Dewas	23.08212	76.22137
34	GF-34N3	Nandel	Tonkkhurd	Dewas	23.06981	76.18637
35	GF-35N2	Durgapura	Dewas	Dewas	23.02136	76.14209
36	GF-36N2	Sindni	Tonkkhurd	Dewas	23.02675	76.14465
37	GF-37N2	Jasodgarh	Dewas	Dewas	23.03168	76.1422
38	GF-38N	Fatehpur Kheda	Tonkkhurd	Dewas	23.03798	76.14307
39	GF-39N4	Jirway	Tonkkhurd	Dewas	23.06387	76.23739
40	GF-40N2	Nawda	Tonkkhurd	Dewas	23.04294	76.14288
41	GF-41N	Nawda	Tonkkhurd	Dewas	23.04872	76.14041
42	GF-42N	Jasodgarh	Dewas	Dewas	23.05351	76.1326
43	GF-44N4	Banarsi	Tonkkhurd	Dewas	23.13051	76.08451
44	GF-53N	Upadi	Tarana	Ujjain	23.09503	76.09964
45	GF-54N2	Devli	Tonkkhurd	Dewas	23.08233	76.27071
46	GF-57N4	Devli	Tonkkhurd	Dewas	23.08357	76.28342
47	GF-67N3	Khareli	Tonkkhurd	Dewas	23.1963	76.22195
48	GF-68N6	Panda	Tonkkhurd	Dewas	23.18884	76.22579
49	GF-69N4	Panda	Tonkkhurd	Dewas	23.1926	76.2256
50	GF80N3	Gir lakhedi	Tonkkhurd	Dewas	23.0767	76.26505
51	GF-82N	Nandel	Tonkkhurd	Dewas	23.04887	76.1876
52	GF-83N2	Nandel	Tonkkhurd	Dewas	23.05341	76.18985
53	GF-87N3	Nandel	Tonkkhurd	Dewas	23.06029	76.18456
54	GF-96N3	Nandel	Tonkkhurd	Dewas	23.05866	76.16897

The technical specifications have been verified during on-site visit and also cross checked from the technical manuals of the Manufactures.

Technical details and commissioning schedule of the respective WTG are as follows:

WTG Nos	Capacity	Commissioning Date
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GF-67N3, GF-17N2, GF-96N3, GF-83N2, GF-22N1, GF-25N1, GF-22N3, GF-24N2, GF-27N2, GF-08N2, GF-69N4, GF-37N2, GF-40N2, GF-53N, GF-10N, GF-123N, GF-125N, GF-129N, GF-36N2, GF-06N, GF-126N1	42 MW	11-March-2016
GF-34N3, GF-42N, GF-68N6, GF-87N3, GF-01N2, GF-154N, GF-18N2, GF-41N, GF-35N2, GF-38N	20 MW	16-March-2016
GF-28N2, GF-39N4, GF-127N, GF-132N4, GF-133N2, GF-54N2, GF-57N4, GF-110N5, GF-144N, GF-23N3	20 MW	22-March-2016
GF-80N3, GF-07N1, GF-26N2, GF-149N4, GF-03N3, GF-163N, GF-162N, GF-134N2, GF-165N, GF-44N4, GF-135N2, GF-161N, GF-82N	26 MW	27-March-2016

The start date of the project is 11-March-2016 which is the first date of commissioning of the first WEG of the plant.

The assessment team confirmed through interview with O&M personal during on-site audit that there are no changes into the project design during this monitoring period. It was found that the monitoring plan was implemented as per the requirement of the PD & approved monitoring Plan and applied methodologies. The organisational role and responsibility as mentioned in the registered VCS PD is followed onsite. The calibration of energy meter is carried out as per the required frequency mentioned in the VCS PD. All the emergency preparedness as mentioned in the registered PD is followed onsite and no discrepancies were found regarding the same.

The Project participant contribution from the project activity towards sustainable development are as explained below:

The proposed project activity involves the installation of Wind Power Projects in Madhya Pradesh State of India. The purpose of the project activity is to generate clean electricity with utilization of wind energy.

The project supplies clean electricity from the wind power plant to the Indian National Grid hence displacing the electricity generated from grid connected fossil fuel power plants and thereby avoiding the equivalent Carbon dioxide which is a greenhouse gas. In the absence of the project activity, there won't be any avoidance of carbon dioxide

During the construction and operation and maintenance of the wind power plant, the project created many direct and indirect new job opportunities mostly to the local people in the project region. In the absence of the project activity, there would be no new jobs created in the project area.

As a part of regional development efforts associated with the project, PP has supported many education, health & infrastructure related needs for local people. These are funded from the revenue generated from the operation of the project activity. In the absence of project activity, there would be no revenue generated from the project and hence the activity would have not occurred in the absence of the project activity.

Thus, the project activity contributes to the sustainable development of the country.

The project is not involved in any other form of GHG emission program and VCU's generated from this verification will not be used for other trading program to avoid any kind of double counting. The same is confirmed by the PP during the on-site verification audit. Assessment team also conducted independent review regarding the same and found that the statement of the PP is accurate, and project is not involved in any other kind of GHG trading for the present verifications/monitoring period.

The assessment team observed that the project is in line with the registered PD and applied methodologies and thus no clarification/deviation is sought. 05 CAR and 01 CL was raised during the verification process. Please refer below Appendix 2 for the detail closure of the CARs.

Assessment team confirms following during the on-site verification:

1. Start date of the project is 11-March-2016.
2. An undertaking letter has been submitted by PP for no double counting with any other GHG program. PP also has given a written declaration that project will not claim other form of GHG credit for the concerned monitoring period.
3. Assessment team confirms that this is the 3rd monitoring under VCS and covers the activity from 01-December-2019 to 31-December 2021 (inclusive of both dates). VCS crediting period is of 10 years with 11-March-2016 as the start date of crediting period and end date as 10-March-2026.
4. Assessment team checked and found that the Project proponent of the project activity is as below for the current monitoring period:

Organization name	Vena Energy Fatanpur Power Private Limited (Formerly Energon RJ Wind Power Private Limited)
Contact person	Rajesh Gathala
Title	Managing Director
Address	1 st Floor, Embassy Icon Annexe, 2/1 Infantry Road, Bangalore- 560001, Karnataka, India
Telephone	080-66454000

Finding: CAR 01, 02, 03, 04, 05 and CL 01 were raised and successfully closed. Please refer appendix 3 for more information.

4.2 Safeguards

4.2.1 No Net Harm

No potential environment or socio-economic matter was found during the discussion with PP during on-site visit. The project is renewable energy project and thus no negative impact observed onsite as confirmed by PP during on-site audit.

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.

However, assessment team still conducted the No net harm assessment for some of the parameters and the result is described below:

Sr. No.	Indicator	Assessment team opinion
1	Air quality	The project activity leads to reduction of GHG emission and also the particulate emission is reduced to permissible limits by use of an ESP. Adequate measures were taken to mitigate the envisaged impacts like spraying water on the road side to reduce dust level etc. This was confirmed by the local stakeholders. Therefore, it is validated that mitigation measures were robustly implemented on ground for air quality issues project will have a positive impact on air quality.
2	Soil condition	For mitigating the impacts during construction, various mitigation measures were taken which is validated from the plant records of PP and the interview with local stakeholders. It was also confirmed that, the vegetation planted at project site helps to reduce soil erosion. The same is confirmed during the discussion with stakeholders during on-site audit. Therefore, it can be concluded that the project has no effect on soil conditions during its operation because it has no waste coming out.
3	Water Pollution	The project site is not on the migration route of migratory bird nor is the project affecting aquatic life. With the implementation of Project, the green cover has increased at the Project site; the biodiversity in the vicinity will be improved with the vegetation improvement.
4	Ecology	The project activity does not have any harmful impact on the ecology. There are no nearby forests, or zones high on biodiversity, or other sensitive locations around the factory that may be affected negatively due to the project. Further, no harmful impact is caused on the aquatic ecology as well as on the local vegetation. Individuals working in high noise zones is provided adequate gadgets for protection. Therefore, it can be concluded that the project has no effect on environment during its operation because it has no waste coming out.

4.2.2 Local Stakeholder Consultation

All the stakeholders are happy with the implementation and operation of the project activity and no negative comments envisaged for the project activity. Complaint/suggestion/feedback register is maintained at site as a part of ongoing communication with stakeholders in line with clause 3.16.17 of VCS Standard, version 4.2 and appropriate actions taken time to time by PP. Assessment team confirmed the same during the on-site audit and document review i.e., grievance register.

4.3 AFOLU-Specific Safeguards

Not Applicable.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the MR. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan of the VCS joint PD and MR.
Findings	No CAR or CL was raised.
Conclusion	As per the registered PDD and applied methodology, Formula used to calculate achieved emission reduction is as follow; $ER_y = BE_y - PE_y - LE_y$ As per registered PD, the build margin and operating margin CO₂ emission factor of Indian grid is taken from Central Electricity Authority:CO₂ Emission Database CEA CO₂ Baseline database Version 11. Thus, $EF_{grid,OMsimple,y} = 0.9941 \text{ t CO}_2/\text{MWh}$ and $EF_{grid,BM,y} = 0.9285 \text{ t CO}_2/\text{MWh}$ The baseline emissions are calculated as below $BE_y = EG_{facility,y} * EF_{grid,CM,y}$ Where; BE_y : Baseline Emissions in year y; t CO₂ $EG_{facility,y}$: Energy baseline in year y; kWh $EF_{grid,CM,y}$: Emission Factor in year y; t CO₂e/kWh

Monitored Parameters

$EG_{\text{facility},y}$ Net electricity exported by the project plant in year y. The value monitored is 395,446 MWh.

The net electricity supplied to grid is cross checked with the JMR and invoices/sales record to confirm the consistency and found ok.

The verification team has checked the entire monthly Energy generation records applicable for the monitoring period as per the project activity applied for verifications and found the monitoring parameter is monitored and recorded as per the monitoring plan in the registered PD. The net electricity supplied by project activity to grid is calculated by subtracting total electricity imported by project from grid from total electricity delivered by project to grid.

The verification team has reviewed the emission reduction sheet and monitoring report data with the energy generation reports and found all the values are consistent.

The calculation of baseline emissions is as below,

$$BE_y = EG_{\text{facility},y} * EF_{CO2}$$

$$= 395,446 * 0.9777 = 386,626 \text{ tCO}_2\text{e (round down values)}$$

Project emissions:

As the project activity involves in harnessing wind power. So, the emission from the project are zero.

Leakage Emission

The project activity is a Greenfield wind power project and there is no technology transfer with respect to this project activity. Hence the Leakage emissions for the project are zero.

Hence, net GHG reduction and removals

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)
Year 2019	9,356	0	0	9,356
Year 2020	181,363	0	0	181,363
Year 2021	195,907	0	0	195,907

	Total	386,626	0	0	386,626
	VVB confirmed that GHG reductions and removals have been quantified correctly and in line with monitoring procedure in PD and applied methodology.				

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	The verification team checked the shutdown/break down log for the monitoring period. During the on-site verification, the energy meters are also checked. The Calibration details of the monitoring meters are also checked with calibration certificates.
Findings	No finding was raised
Conclusion	Calibration of all the meters is done as per the registered PD. Assessment team has checked the calibration certificate and found that meters are calibrated as per calibration frequency mentioned in registered PD. Meters are calibrated as per the standard procedures and documents for the same are maintained throughout. Cross check by recipient of sales. The responsibilities and authorities of project management, data handling and recording, measurement methods and QA/QC procedure have been systematically established and formalized and the same was verified during the on-site audit. On-site verification and interview with site personnel also confirms that the operational and organizational chart as mentioned in registered PD is as per the site practice and thus assessment team confirms that the details are correct. The project was operational continuously during the monitoring period without any major breakdown. Assessment team checked the routine maintenance log book and confirmed that it does not have any impact on project design and monitoring procedures. No unforced error observed. Assessment team confirmed that data/ information used for determining GHG reductions and removals were sufficient in quantity and of appropriate quality. Calibration certificates of meters/ QA/QC procedure checked and found to be appropriate.

4.6 Non-Permanence Risk Analysis

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Not applicable	Not applicable	Not applicable	Not applicable

5 VERIFICATION CONCLUSION

Applus+ Certification has been engaged by “Vena Energy Fatanpur Power Private Limited” to perform the verification of the “108 MW Fatanpur Wind Power Project in Madhya Pradesh”.

The management of the project participant/owner is responsible for the preparation of the GHG emissions data and the reported/estimated GHG emissions reductions on the basis set out within the project’s Monitoring Plan in the PD and MR and the approved methodologies.

Our Verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board and VCS Standard version 4.2. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is operated as planned and described in the project document;
- the monitoring plan is as per the applied methodology;
- the monitoring process in Monitoring Report is as per the VCS PD
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.
- A reasonable level of assurance was achieved during the verification.
- No limitation observed for the present verification

Verification period: From 01-December-2019 to 31-December 2021 (first and last date included).

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

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)

01-December-2019 to 31-December-2019	9,356	0	0	9,356
01-January-2020 to 31-December-2020	181,363	0	0	181,363
01-January-2021 to 31-December 2021	195,907	0	0	195,907
Total	386,626	0	0	386,626

The estimated emission reduction achieved from the project activity for the current monitoring period is 386,626 tCO₂e. The number of days covered during the current monitoring period comes out to be 762 days, based upon which the estimated emission reductions attributed to this monitoring period comes out to be 444,142 tCO₂e values whereas the actual emission reductions achieved during the current monitoring period are 386,626 tCO₂e. The actual VER is 12.9 % lower than the estimated VER. Since, the actual emission reduction lesser than the estimated emission reduction, no further justification is required. Hence, acceptable.

APPENDIX 1: DOCUMENTS REVIEWED DURING VERIFICATION

No.	Author	Title	References to the document	Provider
1.	NA	Commissioning Certificate	Commissioning of the wind power project	Project participant
2.	NA	Technical specifications	Technical specifications of wind Power project manufactured	Project participant
3.	NA	Registered VCS PD and validation report	https://registry.terra.org/app/projectDetail/VCS/1746	VERRA
4.	NA	1 st monitoring report and verification report for the same	https://registry.terra.org/app/projectDetail/VCS/1746	VERRA
5.	NA	Initial Monitoring report Final Monitoring report	Version 01, dated 10/03/2022 Version 02, dated 20/04/2022	Project participant
6.	NA	Emission Calculation sheet	Version 01, dated 10/03/2022	Project participant
7.	NA	Tools/ guidelines used in the project activity - Tool to calculate the emission factor for an electricity system (Version 03.0.0, EB 70, Annex 22) - VCS Standard, version 4.2	UNFCCC CDM web site VERRA website	UNFCCC & VERRA
8.	NA	Calibration details of the project activity undergoing verification	Calibration certificates	Project participant
9.	NA	Joint Meter reading	Plant log book	Project participant
10.	PP	No Double Counting Declaration	Dated 20-April-2022	Project participant

APPENDIX 2: CORRECTIVE ACTION REQUESTS, CLARIFICATION REQUESTS AND FORWARD ACTION REQUESTS (CAR/CL/FAR)

CL ID	01	Section no.	4.4	Date: 19/04/2022
Description of CAR				
During desk review assessment team found, In section 4.1 of Monitoring report value for $EF_{BM,y}$ (Build margin CO2 emission factor of INDIAN grid) is not inline with the VCS joint PD & MR version 03. Kindly clarify.				
Project participant response				Date: 20/04/2022
There is a typo in the build margin value reported in section 4.1 of the VCS-PD. The correct build margin is 0.9285 tCO ₂ /MWh which is correctly mentioned in section 2.4 of the PD. The same can also be confirmed from Baseline CO ₂ Emission Database, Version 11.0, published by Central Electricity Authority (CEA)/ The same value is reported in the section 4.1 of the MR.				
Documentation provided by project participant				
-				
VVB assessment				Date: 28/04/2022
The assessment team has checked the VCS PD and found that there is a typo error in section 4.1 and the correct value is 0.9285 tCO ₂ /MWh is already mentioned in the section 2.4 of the VCS-PD. Assessment team also cross checked the value with Baseline CO ₂ Emission Database, Version 11.0, published by Central Electricity Authority (CEA) and found correct which has been mentioned in the section 4.1 of the MR. Hence, CL 01 is closed.				

CAR ID	01	Section no.	4.1	Date : 19/04/2022
Description of CAR				
During Desk review, following Discrepancies has been found:				
1. Date format mentioned in section 1.1 and 3.1 of monitoring report is not inline with the VCS MR template guideline version 4.1. Corrective action sought. 2. Information on the implementation and actual operation in section 1.1 of the MR of the project activity, including relevant dates (e.g., construction, commissioning, and start of operation) are provided. However, supporting related to the same is missing. Kindly submit. 3. In order to verify Technical specifications of WTG submit the manufactures technical details to assessment team.				
Project participant response				Date : 20/04/2022

1. Date format mentioned in section 1.1 and 3.1 of monitoring report is corrected to be inline with the VCS MR template guideline version 4.1. 2. The supporting documents related to the dates mentioned in section 1.1 are now provided . 3. The technical specification of WTGs are submitted now.	
Documentation provided by project participant	
- Revised MR - Commissioning Certificate - Plant outage data - Technical specification of the WTG	
VVB assessment	Date: 28/04/2022
1. PP has now corrected the date format mentioned in section 1.1 and 3.1 of the revised version 02 of the monitoring report. 2. PP has now submitted all the supportive documents mentioned in the section 1.1 of the MR. Technical team has checked and found okay. 3. Technical specification of WTGs are now submitted by the PP which has been assessed by the technical team and found ok. Hence CAR 01 is closed.	

CAR ID	02	Section no.	4.1	Date: 19/04/2022
Description of CAR				
Break down details of WTGs is missing in MR. PP also requested to submit the supporting evidence of break downs (plant log book for the monitoring period) to assessment team for verification. Corrective action is sought.				
Project participant response				Date: 20/04/2022
The breakdown details are provided now in the excel sheet.				
Documentation provided by project participant				
Plant outage details				
VVB assessment				Date: 28/04/2022
Assessment team has checked the documents provided by the PP and found that the excel sheet of breakdown details is missing. PP is also requested to mention the breakdown details in the annexure of the MR and send the revised version of MR. Hence, CAR 02 is open.				
Project participant response				Date: 05/05/2021
There were only routine operation and maintenance occurred during the monitoring period. There is no major outages that affected the GHG emission reduction during the monitoring period. The same is mentioned in the MR.				
Documentation provided by project participant				
-				
VVB assessment				Date: 08/05/2022
The project was operational continuously during the monitoring period without any major breakdown and the same has been mentioned in the revised version of the MR. Hence CAR 02 is closed.				

CAR ID	03	Section no.	4.1	Date : 19/04/2022
Description of CAR				
During the review of documents submitted by PP, assessment team found that the following documents are missing;				
1. Power Purchase agreement for the project activity 2. Declaration regarding avoidance of double counting of emission reductions in the other GHG trading programs and REC mechanism of India.				
PP is requested to submit above documents for verification.				
Project participant response				Date: 20/04/2022
The following documents are submitted now:				
1. PPA 2. Declaration regarding avoidance of double counting				
Documentation provided by project participant				
• PPA • Declaration regarding avoidance of double counting				
VVB assessment				Date: 28/04/2022
1. Assessment team has checked the documents provided by the PP and found that the PPA is still not submitted. 2. Declaration for avoiding double counting of ER has now been submitted by the PP.				
Due to pending of PPA document, CAR 03 is open.				
Project participant response				Date : 05/05/2022
PPA is submitted now				
Documentation provided by project participant				
Scanned copy of PPA				
VVB assessment				Date: 08/05/2022
PP has now submitted the PPA to the assessment team which is checked and found ok.				
Hence CAR 03 is closed.				

CAR ID	04	Section no.	4.2.2	Date : 19/04/2022
Description of CAR				
PP is requested to provide supporting documents of ongoing communication with local/ Grievance register to assessment team.				
Project participant response				Date: 20/04/2022
The grievance register is now submitted to assessment team.				
Documentation provided by project participant				
Grievance register				
VVB assessment				Date: 28/04/2022
PP has submitted the grievance register and form to the assessment team but it is found that those are only sample forms. PP needs to provide the register with communication with locals.				
Hence CAR 04 is open.				

Project participant response	Date: 05/05/2022
The scanned copy of grievance register maintained at site is submitted now.	
Documentation provided by project participant	
Grievance registers scanned copy	
VVB assessment	Date: 08/05/2022
PP has now submitted the scanned copy of register with communication of the locals and hence, CAR 04 is closed.	

CAR ID	05	Section no.	4.4	Date : 19/04/2022
Description of CAR				
1. PP has submitted the ER sheet to VVB and supporting to verify the electricity generation value for current monitoring period, however during review assessment team found JMR and Invoices missing from month January 2021 to November 2021. 2. Crosscheck mechanism is missing in emission reduction sheet. Thus, corrective action sought.				
Project participant response				Date: 20/04/2022
1. The JMR & Invoices for the month from Jan 2021 to Nov 2021 is now submitted. 2. Crosschecking mechanism is now included in the ER sheet.				
Documentation provided by project participant				
• JMR & Invoices (from Jan 2021 to Nov 2021) • Revised ER sheet				
VVB assessment				Date: 28/04/2022
1. PP has now provided the JMR and invoices from Jan 2021 to Nov 2021 and found ok by the assessment team. 2. PP has now mentioned the JMR and Invoices of the current monitoring period in the revised version of the ER sheet. Hence CAR 05 is closed.				

APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Lead Auditor/Technical Expert	OR	Kumar	Pankaj	TQC-Outsourced entity	Yes	Yes	Yes	Yes

Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)
1.	Technical reviewer (TR)	EI	Shen	Simon	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustin	Applus+ Certification

Short CVs of the Team:

- Pankaj Kumar** worked as team leader – Bihar for South Asia Climate Proofing and Growth Development (CPGD) – Climate Change Innovation Programme (CCIP) supported by DFID that seeks to mainstream climate change resilience into planning and budgeting at the national and sub-national level in India, Pakistan, Nepal, and Afghanistan. Pankaj Kumar has worked previously with IL&FS Infrastructure Development Corporation and BUIDCO (Bihar Urban Infrastructure Development Corporation), Govt. Of Bihar as Environmental Specialist for WB & ADB funded projects. Prior to this, he worked with Carbon Check (UNFCCC accredited DoE), Johannesburg, RSA as Team Leader for validation, verification of around 100 GHG projects in Asia, Africa, USA, Asia Pacific & Americas. Pankaj is accredited Lead Auditor, Validator, Verifier and Technical Expert for Sectoral Scope/Technical Area – 1.1, 1.2, 3.1 & 13.1 by UNFCCC DoE (Designated Operational Entity), APPLUS, Spain. He is also member of task force on climate change & human health, Health Department, GoB and on roster of UNICEF's WASH experts.

He is an experienced, qualified and result oriented Environment Professional having more than 14 yrs. Of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Validation and Verification of GHG project under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil. He provides technical support for environmental investigative, consultative and remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing

Pankaj Kumar is Masters in Environment Management from Forest Research Institute (University), I.C.F.R.E, Dehradun, which is Centre of Excellence in South East Asia for Forestry education & research and PGDEL from National Law School of India University, Bangalore (India).

2. **Mr. Simon Shen** Mr. Simon Shen (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD for 3.5 years before he joined Applus+. Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.

APPENDIX 4: ABBREVIATIONS

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction(s)
CL	Clarification Request
CM	Combined Margin
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide equivalent
DNA	Designated National Authority
VVB	Validation and Verification Body
DR	Document Review
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming Potential
VCS	Verified Carbon Standard
PP	Project Participant

APPENDIX 5: CALIBRATION DETAILS

Meter	Calibration Date	Due date	Calibration agency
Main meter Line I	18/06/2019	17/06/2024	MPPTCL
	20/02/2020	19/02/2025	MPPTCL
Check meter Line I	18/06/2019	17/06/2024	MPPTCL
	20/02/2020	19/02/2025	MPPTCL
Main meter Line II	18/06/2019	17/06/2024	MPPTCL
	20/02/2020	19/02/2025	MPPTCL
Check meter Line II	18/06/2019	17/06/2024	MPPTCL
	20/02/2020	19/02/2025	MPPTCL

Calibration of electricity meters is carried out in-line with the Nation standard¹ which recommends at least once in 5 year calibration or whenever abnormal difference/inconsistency is observed between main meter and check meter.

¹ (Page number 12 of) http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf