



KALADONGER WIND POWER PROJECT IN RAJASTHAN



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Summary:

Verification purpose: The project undertaken by Infinite Solutions, Indore, India was registered with UNFCCC on 30-Dec-2012¹. The project activity envisages implementation of 75.6 MW wind power project consisting of 36 Wind Electric Generators (WTGs) of individual capacity 2.1 MW, at Kaladonger village in Rajasthan, India by M/s Bindu Vayu Urja Private Limited (BVUPL). The electricity generated is exported to the Indian- grid. The project activity helps to reduce carbon intensity.

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. In the project site, there are other wind projects owned by other customers connected to the same substation. There is an apportioning procedure which is approved by the state nodal agency for apportioning the electricity to each and every customer. The project uses Suzlon's wind energy technology. The project activity implements S95 model 2.1MW WTGs.

Start date of the project activity is 18-Feb-2012. An undertaking has been submitted by PP for double counting confirming that no GHG reduction will be claimed in any other GHG mechanism for

¹ <https://cdm.unfccc.int/Projects/DB/RWTUV1356681143.52/view>

current monitoring period. Project activity undergoes continued operation and no major breakdown had taken place except routine maintenance/shutdown.

This is the 3rd monitoring report under VCS covers activity from 01-June-2021 to 17-February-2022 (inclusive both days). During the Current Monitoring Period the project activity has supplied 92,179.40 MWh of electricity, and thus contributing to the GHG reductions of **87,819 tCO₂e**.

VCS crediting period is of 10 years. The start date of crediting period is 31-December-2012 and 30-December-2022 is the end date of the crediting period.

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.

LGA Technological Center S.A. (Applus+ Certification) (Hereafter referred to as Applus+ Certification) has been appointed by "Infinite Solutions" to perform the verification of the "Kaladonger Wind Power Project in Rajasthan" under VCS standard 4.1 and VCS Program guide version 4. 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 12.3.0) - 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 and standard, version 4.1

- CDM Validation and Verification Standard for project activities, version 03.0
- CDM Project Standard for project activities, version 03.0
- CDM project cycle procedure for project activities, version 03.0
- VCS standard version 4.1
- VCS program guide version 4

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, CDM Project Standard for project activities, version 03.0; CDM Project Cycle Procedure for project activities, version 03.0 and VCS program guide, version 4 and standard version 4.1.

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 remote 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 “Infinite Solutions” to perform the 3rd periodic verification of the project entitled “Kaladonger Wind Power Project in Rajasthan” under VCS standard version 4.1 and program guide version 4. 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 12.3.0) “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 and standard version 4.1.

CDM Validation and Verification Standard for project activities, version 03.0

CDM Project Standard for project activities, version 03.0

CDM project cycle procedure 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 12.3.0. 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 4.1 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, CDM Project Standard for project activities, version 03.0, CDM

project cycle procedure for project activities, version 03.0 and VCS program guide, version 4 and standard version 4.1.

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 Bindu Vayu Urja Private Limited. has implemented a 75.6 MW wind power project consisting of 36 Wind Electric Generators (WTGs) of individual capacity of 2.1 MW at Kaladonger village in Rajasthan.

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.

At the project site, there are other wind projects owned by other customers connected to the same substation. There is an apportioning procedure which is approved by the state nodal agency for apportioning the electricity to each and every customer. The project uses Suzlon's wind energy technology. The project activity implements S95 model 2.1MW WTGs.

During the Current Monitoring Period from 01-June-2021 to 17-February-2022 (First and last date included) the project activity has supplied 85,088.65 MWh of electricity, and thus contributing to the GHG reductions 87,819 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 4.1 and VCS program guide, version 4 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. Follow-up interviews with project participant;
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 CDM 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.

Follow-up interviews

A remote audit was conducted by LGAI Technological Center S.A. (Applus+ Certification) who performed interviews, telephone conferences 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 03 submitted by PP on 19-October-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 two 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

A remote audit was conducted for the project activity on 08-April-2022. Remote audit was conducted due to ongoing COVID-19 pandemic situation in the entire country of India. Taking into account the rules of relevant national and local authorities (local to the VVB offices as well as to locality of the remote audits), World Health Organization (WHO) recommendations, policies of the VVB and other relevant travel restrictions and guidance (for example, a requirement to self-isolate upon return). Moreover, The VCS Program does not explicitly mandate remote audits as part of the validation and verification process, only that VVBs must achieve a reasonable level of assurance on all validations and verifications (per Section 4.1.2 of the VCS Standard, version 4.1

The VVB has taken alternative measures to reach reasonable level of assurance and conducted remote audit through video conferencing with site personal & consultant (refer section 2.3) with the PP representative. This is also in line with the COVID-19 travel guidance for projects of VERRA.

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 remote 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, fuel purchase invoices, Plant records, Energy Generation Record sheets, invoice, calibration certificates etc. were also verified. The names of the persons interviewed during remote audit through skype & telephonic interview is given below;

Organization	Name of Persons/Designation	Topics discussed	Team Member
Infinite Solutions	Mr. Jimmy Shah, Consultant	Project activity implementation Operation, Calibration, O&M practices, ENERGY GENERATION RECORDS etc. LSC mechanism Mechanical maintenance	Pankaj Kumar
Bindu Vayu Urja Private Limited	Mr. Vikram Kailas	Electrical maintenance Project description Invoicing practices Project activity implementation Operation, Calibration, O&M practices, ENERGY GENERATION RECORDS etc.	
Bindu Vayu Urja Private Limited	Mr. Ravindra Kumar Rana	LSC mechanism Mechanical maintenance	
Bindu Vayu Urja Private Limited	Mr. Dharmendra Singh	Electrical maintenance Project description Invoicing practices MR, ER calculations etc.	

During the remote audit, the PP representatives were questioned about the implementation of the project activity. Several topics like the verification of commissioning date of equipments, the generation, recording, and monitoring of the data and the error accountability were discussed. Various documents like the ENERGY GENERATION RECORDS sheets, plant records, invoices, on-site Photographs includes boiler nameplates, meter specifications, key technical specifications of the major equipment provided to assessment team were verified on video conference call to establish the current status and the implementation of the Project Activity.

2.4 Site Inspections

Remote Audit: 08-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 CDM PDD is actually practised onsite. Also, assessment team checked any change in host country criteria which may affect the baseline of the project activity.	Remote audit (Video Conferencing)	08-April-2022	Pankaj Kumar

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 03 submitted by project owners on 19-October-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	01	00	00
Description of project activity	00	01	00
Application of selected baseline and monitoring methodology and selected standardized baseline			

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
- Applicability of methodology and standardized baseline	01	00	00
- Deviation from methodology	00	00	00
- 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	00	01	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)-	00	03	00
- Regarding double counting Declaration			
- ER Sheet			
- Supporting documents			
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

3 APPLUS+ CERTIFICATION CONDUCTED THE VERIFICATION ACTIVITY; THE VALIDATION WAS PERFORMED BY THE OTHER VVB. APPLUS+ CERTIFICATION HAS A VALID UNFCCC ACCREDITATION IN THE SECTORAL SCOPE FROM UNFCCC.VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project activity is first registered under CDM (<https://cdm.unfccc.int/Projects/DB/RWTUV1356681143.52/view>) with fixed crediting period as 18-February-2012 to 17-February-2022. The project proponent has not claimed any GHG credits under CDM mechanism during current monitoring period.

The undertaking is provided to confirm that there is no any double accounting for current monitoring period.

3.2 Methodology Deviations

The project activity has applied correct methodologies which are as per the registered CDM PDD and thus no deviation is sought regarding the methodology. The project complies with all the requirement of the methodology and thus deviation to the methodology is not a requirement for the present project activity.

3.3 Project Description Deviations

During previous monitoring period, deviation was requested in title of this project activity from registered VCS PD. In registered VCS PD, the title was incorrectly mentioned as "Kaladonger wind

power project in Rajasthan" while the correct title is "Kaladonger Wind Power Project in Rajasthan".

This deviation was approved in monitoring period of 01-April-2020 to 31-May-2021, No other deviation was occurred during this and prior monitoring periods.

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 remote audit, it was concluded that the project is implemented as per CDM PDD 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 remote 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 CDM PDD are correct.

The project activity is located in Kaladonger Site of Jaisalmer District Rajasthan State, India.

The location of WEGs is as given below:

S. No.	Loc. No.	LATITUDE			LONGITUDE		
1.	KD-001	27	5	35.4	70	59	59
2.	KD-002	27	5	54.9	70	59	53.5
3.	KD-003	27	6	16.8	70	59	54.4
4.	KD-004	27	6	27.3	70	59	42.5
5.	KD-005	27	6	38.7	70	59	30.8
6.	KD-006	27	6	49.8	70	59	18.6
7.	KD-007	27	7	1.7	70	59	4.3
8.	KD-012	27	7	26.1	70	59	48
9.	KD-013	27	7	14.1	70	59	59.1
10.	KD-014	27	7	1.8	71	0	9.9

11.	KD-024	27	7	9.5	71	2	4.5
12.	KD-027	27	7	36.3	71	1	28.8
13.	KD-028	27	7	41.5	71	1	13
14.	KD-029	27	7	51.5	71	0	54.8
15.	KD-030	27	7	54.5	71	0	33.3
16.	KD-035	27	8	40.9	71	0	46.3
17.	KD-036	27	8	34.2	71	1	3.8
18.	KD-037	27	8	27.5	71	1	23.9
19.	KD-038	27	8	17.6	71	1	39.8
20.	KD-039	27	8	10.4	71	1	56.5
21.	KD-040	27	7	59.8	71	2	4.9
22.	KD-054	27	8	22.4	71	2	59.3
23.	KD-055	27	8	30.7	71	2	49.9
24.	KD-056	27	8	38.2	71	2	38.8
25.	KD-057	27	8	45.1	71	2	26.5
26.	KD-058	27	8	52.9	71	2	6.3
27.	KD-059	27	9	2.5	71	1	51.7
28.	KD-060	27	9	11	71	1	31.3
29.	KD-061	27	9	17	71	1	17.4
30.	KD-067	27	9	21.4	71	2	54.1
31.	KD-068	27	9	14.6	71	3	9.3
32.	KD-076	27	8	23.5	71	4	55.5
33.	KD-077	27	8	39.3	71	4	47.2
34.	KD-078	27	8	48.3	71	4	31.9
35.	KD-079	27	9	2.9	71	4	29.8
36.	KD-082	27	7	44.8	71	2	35.6

The technical specifications have been verified during remote audit and also cross checked from the technical manuals of the Manufactures.

Technical Specification as per EPC contract with Suzlon's wind energy is provided:

OPERATING DATA	
Rated power	2100 KW
Rotor speed	12.1 to 17.6 rpm
Power regulation	Active pitch regulated
Cut-in wind speed	3.5 meter/second
Rated wind speed	11 meter/second
Cut-off wind speed	25 meter/second
Restart wind speed	23 meter/second

Wind class	IEC IIA
Estimated service life	20 years
Ambient temperature range-operation	-10° to+ 40° C
A factor	9.59 m/s
ROTOR DATA	
Diameter	95 meter
Rotor cone angle	5°
Rotor speed at rated power	15.83 rpm
Tip speed at rated power	78.7 m/s
Swept area	7085 metre ²
BLADES	
Type	SUZLON SB46
Length	46.3 m
Material	Glass fibre reinforced plastic/ Epoxy
GENERATOR	
Type	Asynchronous 3 phase induction
Rated power	2.1 MW
Number of poles/Synchronous speed	4/1500 rpm
Frequency	50 Hz
Rated generator speed	1568 rpm
TOWER	
Type	Tubular steel tower
Tower Height	80 m

The commissioning schedule of the respective WTGs are as follows:

S. No.	Make	WEG-HTSC No.	Commissioned on
1.	Suzlon	KD01	20-July-2012
2.	Suzlon	KD02	20-July-2012
3.	Suzlon	KD03	20-July-2012
4.	Suzlon	KD04	20-July-2012
5.	Suzlon	KD05	20-July-2012
6.	Suzlon	KD06	20-July-2012
7.	Suzlon	KD07	20-July-2012
8.	Suzlon	KD58	30-March-2012
9.	Suzlon	KD27	30-March-2012
10.	Suzlon	KD28	30-March-2012
11.	Suzlon	KD12	31-March-2012
12.	Suzlon	KD13	31-March-2012
13.	Suzlon	KD14	31-March-2012
14.	Suzlon	KD24	23-March-2012

15.	Suzlon	KD40	23-March-2012
16.	Suzlon	KD78	23-March-2012
17.	Suzlon	KD76	28-March-2012
18.	Suzlon	KD67	28-March-2012
19.	Suzlon	KD29	28-March-2012
20.	Suzlon	KD54	27-March-2012
21.	Suzlon	KD77	27-March-2012
22.	Suzlon	KD68	27-March-2012
23.	Suzlon	KD79	27-March-2012
24.	Suzlon	KD30	27-March-2012
25.	Suzlon	KD35	14-March-2012
26.	Suzlon	KD37	14-March-2012
27.	Suzlon	KD39	14-March-2012
28.	Suzlon	KD59	14-March-2012
29.	Suzlon	KD60	14-March-2012
30.	Suzlon	KD61	14-March-2012
31.	Suzlon	KD57	14-March-2012
32.	Suzlon	KD36	18-February-2012
33.	Suzlon	KD38	25-March-2012
34.	Suzlon	KD55	25-March-2012
35.	Suzlon	KD56	25-March-2012
36.	Suzlon	KD82	10-September-2012

The start date of the project is 18-February-2012 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 remote 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 CDM PDD & approved monitoring Plan and applied methodologies. The organisational role and responsibility as mentioned in the registered CDM PDD is followed onsite. The calibration of energy meter is carried out as per the required frequency mentioned in the CDM PDD. All the emergency preparedness as mentioned in the registered CDM PDD 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:

Environmental Well-being

The project utilizes wind energy for generating electricity which otherwise would have been generated through alternate fossil fuel-based power plants, contributing to reduction in specific emissions (emissions of pollutant/unit of energy generated) including GHG emissions.

Being a renewable resource, using wind energy to generate electricity contributes to resource conservation. Thus, the project has no negative impact on the surrounding environment contributing to environmental well-being.

Contribution to socio-economic well - being

Economic Sustainability

The project activity improves livelihood of people in the region by generating employment opportunities in the region. The project creates business opportunities of the suppliers, financial institutions and other stakeholder who are directly or indirectly associated with the project. Thus the project is a clean technology investment in the region, which would not have been taken place in the absence of the project.

Social Sustainability

The project activity provided direct employment to persons during construction and on an ongoing basis during normal operations. In addition, additional persons directly benefited through casual work, subcontracts, trading etc. Thus, the project activity helps to improve quality of life by creating opportunities for jobs and business.

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 verification remote 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 CDM PDD 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 verification remote audit:

1. Start date of the project is 18-February-2012.
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-June-2021 to 17-February-2022 (inclusive of both dates). VCS crediting period is of 10 years with 18-February-2012 as the start date of crediting period and end date as 17-February-2022.
4. GHG credits from 01-June-2021 to 17-February-2022 will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the "Double Counting".

5. Assessment team checked and found that the Project proponent of the project activity is as below for the current monitoring period:

Organization name	<i>Infinite Solutions</i>
Contact person	<i>Mrs. Richa Thakur</i>
Title	<i>Project Manager</i>
Address	<i>214-215 Milinda Manor, Opp. Next Treasure Island, 2 RNT Marg, Indore- 452001</i>
Telephone	<i>+91-731-4050174</i>
Email	<i>richa@infosolutions.org</i>

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 remote audit. The project is renewable energy project and thus no negative impact observed onsite as confirmed by PP during remote 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.

Sr. No.	Indicator	Assessment team opinion
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 remote 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. There was no change in project description from the CDM PDD. 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 4.1 and appropriate actions taken time to time by PP. Assessment team confirmed the same during the remote 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
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n	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 CDM PDD 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 PDD, 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 07. Thus, $EF_{grid,OMsimple,y} = 0.9841 \text{ t CO}_2/\text{MWh}$ and $EF_{grid,BM,y} = 0.8587 \text{ t CO}_2/\text{MWh}$ 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 $EG_{facility,y}$ Net electricity exported by the project plant in year y. The value monitored is <table border="1"> <tr> <td>For year 2021</td><td>84,784.57 MWh</td></tr> <tr> <td>For year 2022</td><td>7,394.83 MWh</td></tr> <tr> <td>Total</td><td>92,179.40 MWh</td></tr> </table> 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 CDM PDD. 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. Also same is cross checked with quantity of biomass fired found correct. The calculation of baseline emissions is as below, $BE_y = EG_{facility,y} * EF_{CO2}$ For year 2021	For year 2021	84,784.57 MWh	For year 2022	7,394.83 MWh	Total	92,179.40 MWh
For year 2021	84,784.57 MWh						
For year 2022	7,394.83 MWh						
Total	92,179.40 MWh						

=84,784.57 * 0.9527 = 80.774 tCO2e (round down values)

For year 2022

=7,394.83 * 0.9527 = 7,045 tCO2e (round down values)

Total = 87,819

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 (tCO2e)	Project emissions or removals (tCO2e)	Leakage emissions (tCO2e)	Net GHG emission reductions or removals (tCO2e)
2021(1-June-2021 to 31-December-2021)	84,774	0	0	84,774
2022(1-January-2022 to 17-February-2022)	7,045	0	0	7,045
Total	87,819	0	0	87,819 (rounddown)

VVB confirmed that GHG reductions and removals have been quantified correctly and in line with monitoring procedure in CDM PDD 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 verification of remote audit, the energy meters are also checked. The Calibration details of the monitoring meters are also checked with calibration certificates.
Findings	CAR 05 was raised
Conclusion	Calibration of all the meters is done as per the registered CDM PDD. Assessment team has checked the calibration certificate and found that meters are calibrated as per calibration frequency mentioned in registered CDM PDD. Meters are calibrated as per the standard procedures and documents for the same are maintained throughout. Cross check by recipient of sales. Net electricity supplied is calculated based on the difference between calculated values of “export” and calculated value “import” on the JVVNL energy meter at the common evacuation point and the percentage transmission loss as prescribed in the PPA for metering at 220 kV. All the data items monitored under the monitoring plan and will be archived for entire crediting period or till the last issuance of VER/CERs for this project activity whichever occurs later. Calibration Frequency: All Energy meters are tested for accuracy at least once in a year. The accuracy class of the energy meter is 0.2s Net electricity supplied to the grid by the project activity is cross checked with invoices submitted to JVVNL. 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 remote audit. Remote audit and interview with site personnel also confirms that the operational and organizational chart as mentioned in registered CDM PDD is as per the site practice and thus assessment team confirms that the details are correct. The shutdown / break down reports are checked and found that the plant undergone scheduled maintenance and break down. 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.
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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 Infinite Solutions to perform the verification of the “Kaladonger Wind Power Project in Rajasthan”.

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 CDM PDD 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 4.1. 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 CDM PDD
- 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-June-2021 to 17-February-2022 (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)
2021(1-June-2021 to 31-December-2021)	84,774	0	0	84,774
2022(1-January-2022 to 17-February-2022)	7,045	0	0	7,045
Total	87,819	0	0	87,819 (rounddown)

Considering the annual average emission reductions as per the registered PDD which is 126,817 tCO₂e per year, the number of days covered during the current monitoring period comes out to be 262 days, based upon which the estimated emission reductions attributed to this monitoring period comes out to be 91,030 tCO₂e values whereas the actual emission reductions achieved during the current monitoring period is 87,819 tCO₂. The actual VER is 3.53% lower than the estimated VER. This variation is majorly due to the variations in wind flow pattern, grid availability and other parameters which are not in the control of PP.VVB confirmed the value is conservative and 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 CDM PDD and validation report	https://cdm.unfccc.int/Projects/DB/RWTUV1356681143.52/view	UNFCCC
4.	NA	Registered VCS PD and validation report	https://registry.terra.org/app/projectDetail/VCS/1194	VERRA
5.	NA	1 st monitoring report and verification report for the same	https://registry.terra.org/app/search/VCS?programType=ISSUANCE&exactResId=1194	VERRA
6.	NA	Initial Monitoring report Final Monitoring report	Version 01, dated 24/03/2022 Version 03, dated 19/10/2022	Project participant
7.	NA	Emission Calculation sheet	Version 01, dated 24/03/2022 Version 02, dated 31/03/2022	Project participant
8.	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 4.1	UNFCCC CDM web site VERRA website	UNFCCC & VERRA
9.	NA	Calibration details of the project activity undergoing verification	Calibration certificates	Project participant
10.	NA	Joint Meter reading	Plant log book	Project participant
11.	NA	No Double Counting Declaration	Declaration from PP	Project participant

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

CL ID	01	Section no.	1.6	Date: 12/04/2022
Description of CAR				
In Section 1.6, it is mentioned that the crediting period for VCS begins on 18-February-2012 and ends on 17-February-2022, whereas the current monitoring period of the VCS mentioned till 28-February-2022. PP shall clarify the extra days considering for this monitoring period.				
Project participant response				Date: 12/04/2022
The crediting period is till 17/02/2022 .This has been corrected in ER sheet and revised MR Version 2.0				
Document submitted				Date: 12/04/2022
Revised MR Version 2.0 ER sheet				
DOE assessment				Date: 13/04/2022
The assessment team has checked and found that crediting period is corrected and revised in both MR and ER sheet provided by the PP. The ER calculation also revised based on the crediting period of the Project. Hence, CL01 is closed.				

CAR ID	01	Section no.	2.1	Date: 12/04/2022
Description of CAR				
In Section 2.1, the weblink provided for the report by MNRE dated September 2013 on "Development Impacts and Sustainable Governance Aspects of Renewable Energy Projects" is not functional. Hence, corrective action sought.				
Project participant response				Date: 12/04/2022
There is no link provided in section 2.1.				
Documents submitted				Date: 12/04/2022
DOE assessment				Date: 13/04/2022

The assessment team checked there is no such link in the section 2.1 of the MR.

Hence, CAR01 is closed.

CAR ID	02	Section no.	1.9, 1.10	Date: 12/04/2022
Description of CAR				
PP shall provide an undertaking for no double counting of GHG reductions claimed for current monitoring period.				
Project participant response				Date: 12/04/2022
<i>No double counting declaration is submitted herewith for assessment</i>				
Project participant response				Date:
DOE assessment				Date: 13/04/2022
PP has now submitted the undertaking for no double counting of GHG reductions for the current monitoring period. Assessment team checked and found ok.				
Hence, CAR 02 is closed.				

CAR ID	03	Section no.	3.1	Date: 12/04/2022
Description of CAR				
PP is requested to provide break down details of all plant involved in the project activity.				
Project participant response				Date: 12/04/2022
<i>No major breakdown occurred during current monitoring period.</i>				
Documentation provided by project participant				
<i>Revised MR Version 2.0</i>				
DOE assessment				Date: 13/04/2022
Since, there is no major breakdowns during the current monitoring period the details is not required.				
Hence, CAR 03 is closed.				

CAR ID	04	Section no.	4.3	Date: 12/04/2022
Description of CAR				
PP is requested to provide following documents to verify the details given in MR,				
1. Calibration certificates of meters				
Project participant response				Date: 12/04/2022
<i>Calibration certificate is provided herewith.</i>				
Documentation provided by project participant				
<i>Calibration certificate</i>				
DOE assessment				Date: 13/04/2022

The assessment team has checked the calibration certificate provided by PP and found ok.

Hence, CAR 04 is closed.

CAR ID	05	Section no.	4.3	Date: 12/04/2022
Description of CAR				
1. The ER sheet provided, mentioned the monitoring period from '1 April 2020 to 31May 2021' whereas the current monitoring period mentioned in the MR is June 2021 to 28 Feb 2022. Also the values are not matching with the provided ER sheet. PP shall provide the correct ER sheet.				
Project participant response				Date: 12/04/2022
<i>The ER sheet has been corrected as per the monitoring period.</i>				
Documentation provided by project participant				
<i>ER Sheet</i>				
DOE assessment				Date: 13/04/2022
PP has now submitted the correct ER sheet which has been checked by the assessment team and found ok. PP has also revised the ER calculation for current monitoring period and mentioned it in the revised MR.				
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 DOE 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	No	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 DOE 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** (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
DOE	Designated Operational Entity
DR	Document Review
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming Potential
PP	Project Participant

APPENDIX 5: CALIBRATION DETAILS

S. No	Meter Number	Meter Make	Accuracy Class	Date of calibration	Due date of calibration
1.	RJB90204 (Main meter GSS end)	Secure	0.2 s	12-February-2021	11-February-2022
2.	RJB90205 (Back- up meter GSS end)	Secure	0.2s	12-February-2021	11-February-2022

Feeder	Meter	Meter no	Make	Class	Date of calibration	Due date of calibration
Feeder 1	Main meter	UPP31774	Secure	0.2s	22-Feb-2021	21-Feb-2022
	Check meter	UPP31776	Secure	0.2s	22-Feb-2021	21-Feb-2022
Feeder 3	Main meter	UPP31766	Secure	0.2s	22-Feb-2021	21-Feb-2022
	Check meter	UPP31783	Secure	0.2s	22-Feb-2021	21-Feb-2022
Feeder 4	Main meter	RJB78190	Secure	0.2s	22-Feb-2021	21-Feb-2022
	Check meter	RJB78191	Secure	0.2s	22-Feb-2021	21-Feb-2022
Feeder 5	Main meter	RJB78196	Secure	0.2s	22-Feb-2021	21-Feb-2022
	Check meter	RJB78197	Secure	0.2s	22-Feb-2021	21-Feb-2022