33.9 MW Bundled Wind Power Project in Karnataka and Tamil Nadu

South Asia

TÜV SÜD South Asia Pvt Ltd

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Report Title	VCS Verification "33.9 MW Bundled Wind Power Project in Karnataka and Tamil Nadu"
Client	Simran Wind Project Private Limited
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Summary:

TÜV SÜD South Asia Pvt. Ltd. has performed the fourth verification of the aforementioned VCS project activity. The verification is based on the currently valid documentation of the VCS and United Nations Framework Convention on Climate Change (UNFCCC).

The Verification has been conducted for the monitoring period 21-December-2016 to 30-March-2018 (Inclusive of both the dates)

The verification process includes three phases:

Desk review of documents;

On-site audit and follow-up interviews with the relevant personnel;

Resolution of outstanding issues and the issuance of final verification report and opinion.

The project activity consists of the 19 machines of Suzlon make of 1.5 MW each, and 9 nos of 0.6 MW each totalling to the capacity of 33.9 MW. The Project considered harnessed renewable resources in the region, thereby displacing non-renewable natural resources thereby ultimately leading to sustainable economic and environmental development.

The project is a bundled project activity having two investors. The project involves a total of 19 nos. of WEGs of 1.5 MW each and 9 nos of 0.6 MW each.

The project under consideration is located in the states of Karnataka and Tamil Nadu. The project is owned by Super Wind Project Private Ltd. and Simran Wind Project Private Ltd.

The project leads to reduction of greenhouse gas emissions by replacing an equivalent amount of energy generated from fossil fuel intensive thermal power plants to meet the energy requirement.

The project proponent has considered 30th March 2008 as the project start date, being the date of commissioning of first turbine included in the bundle of all the 28 WTGs considered under the project activity. The selected project start date is in line with the VCS standard. The verification team has been verified the commissioning dates of all the 28 WTGs under the project activity from the commissioning certificates issued by the KPTCL and TNEB.
The project proponent has opted for a crediting period of 10 years starting from 1st April 2008, which can be renewed twice. The selected crediting period is reasonable keeping in view VCS 2007.1 guidance was applicable during registration time.

Operational lifetime of the proposed project has been defined as 20 years.

The GHG credits from 21-December-2016 to 30-March-2018 will be claimed under VCS only. An undertaking dated 15-February-2022 from the project participant confirms that project will not claim any other scheme benefits for the concerned monitoring period.

1 Clarification Requests (CLs) and 3 Corrective Action Request (CARs) have been raised during the course of verification process and has been successfully closed. No Forward Action Request (FAR) was raised during this monitoring period.

1 INTRODUCTION

1.1 Objective

TÜV SÜD has been commissioned by the aforementioned client to perform an independent verification assessment.

The objective of the verification work is to comply with the requirements of Verified Carbon Standards requirements. According to this assessment TÜV SÜD shall:

- ensure that the project activity has been implemented and operated as per the registered PDD, and that all physical features (technology, project equipment, monitoring and metering equipment) of the project are in place,
- the project's baseline is assessed against "ACM0002 - Version 10"
- the project's monitoring plan is assessed against "ACM0002 - Version 10"
- ensure that the published MR and other supporting documents provided are complete, verifiable and in accordance with applicable VCS and CDM VVS requirements,
- ensure that the actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology,
- evaluate the data recorded and stored as per the applicable requirements.
- assessment of the sustainability monitoring parameters as per the VCS requirements

1.2 Scope and Criteria

The scope of any assessment is defined by the underlying legislation, regulation and guidance given by relevant entities or authorities. In the case of VCS project activities, the scope is set by:

- VCS v4.0 requirements
- Clean Development Mechanism Validation and Verification Standard (VVS) for Project Activities v2.0
- Baselines and monitoring methodologies (including GHG inventories)
- Environmental issues relevant to the applicable sectoral scope
- Current technical and operational knowledge of the specific sectoral scope and information on best practice
- Stakeholder consultation and feedback

The verification process is not meant to provide any form of consulting for the project participant (PP). However, stated requests for clarifications, corrective actions, and/or forward actions may provide input for improvement of the project design.

1.3 Level of Assurance

The errors identified in the project are below the threshold limit of materiality and hence not material. The GHG emission reductions are calculated without material misstatements.

The VVB confirms that a reasonable level of assurance has been achieved during the verification process.

1.4 Summary Description of the Project

The purpose of the project activity is to generate energy electricity by the utilization of wind power and further selling the generated energy to the respective Grid. In this process there is minor consumption of diesel in the generator set during monitoring period and same has been monitored in line with monitoring plan of the project activity and considered in the ER calculation. Thus, electricity would be generated through sustainable means without causing any negative impact on the environment.

The project activity consists of the 19 machines of Suzlon make of 1.5 MW each, and 9 nos of 0.6 MW each totalling to the capacity of 33.9 MW. The Project considered harnessed renewable resources in the region, thereby displacing non-renewable natural resources thereby ultimately leading to sustainable economic and environmental development.

The project is a bundled project activity having two investors. The project involves a total of 19 nos. of WEGs of 1.5 MW each and 9 nos. of 0.6 MW each.

The project under consideration is located in the states of Karnataka and Tamil Nadu. The project is owned by Super Wind Project Private Ltd. and Simran Wind Project Private Ltd.

The project leads to reduction of greenhouse gas emissions by replacing an equivalent amount of energy generated from fossil fuel intensive thermal power plants to meet the energy requirement.

The project proponent has considered 30th March 2008 as the project start date, being the date of commissioning of first turbine included in the bundle of all the 28 WTGs considered under the project activity. The selected project start date is in line with the VCS standard. The verification team has been verified the commissioning dates of all the 28 WTGs under the project activity from the commissioning certificates issued by the KPTCL and TNEB.

The project proponent has opted for a crediting period of 10 years starting from 1st April 2008, which can be renewed twice. The selected crediting period is reasonable keeping in view VCS 2007.1 guidance was applicable during registration time.

Operational lifetime of the proposed project has been defined as 20 years.

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2 VERIFICATION PROCESS

2.1 Method and Criteria

The information provided by the project participants is assessed by applying the means of verification specified in the VCS v4, Toolkit and the VVS.

A competent assessment team is selected prior to the start of the verification. The team is selected to cover the technical area(s), sectoral scope(s) and relevant host country experience for evaluating the VCS project activity. Additionally, a competent Technical Reviewer or Technical Reviewer Team is appointed to conduct checks on quality and completeness.

The verification team performs first a desk review, followed by a remote audit, which results in the formation of a draft report and a list of findings. The next step involves the evaluation of the findings through direct communication with the PPs and then finally the preparation of the verification report. This verification report and other supporting documents then undergo an internal quality control by the CB "Environment and energy" before submission to the VCS.

2.2 Document Review

The documents referred during the course of this verification are provided in Appendix 1.

2.3 Interviews

The VVB has not conducted the on-site inspection for this current monitoring period due to obligations imposed by COVID 19. However, the VVB has ensured that reasonable level of assurance has been achieved as per Verra regulations on the relaxation of mandatory site visits by the VVB due to Covid-19. The VVB has conducted telephonic interviews and video calls to discuss with the client regarding the data and documents pertaining to the current verification period. The interviews and discussions were conducted successfully.

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Jhunjhunwala	Vikram	Simran Wind Project Private Limited	15/02/2022	Implementation of the project, O&M activities, Metering arrangements, Calibrations, tariff invoice, On-going LSC. etc.	Eswar Murty
2	Rao	Anjali	EKI Energy Services	15/02/2022	Plant technology and monitoring	Eswar Murty
3	Bag	Debjit	EKI Energy Services	15/02/2022	CDM Monitoring	Eswar Murty

2.4 Site Inspections

Please see 2.3

2.5 Resolution of Findings

CL from this verification

CL ID	01			**Date:** 15/02/2022
Description of CAR				
PP to provide 1. Commissioning certificates of all WTGs 2. JMR/ Invoices for few months 3. Calibration certificates for the monitoring period				
				Date: 04-March-2022
1. Commissioning Certificates are being submitted. 2. JMR/Invoices for few months (K-75:January 2017, K-76: January 2017, K-347: June 2017) are not available with PP. And that is why the generation for that particular month is considered zero in ER calculation sheet. 3. Calibration certificates for this monitoring period are being submitted.				
Documentation provided by project participant				
1. Commissioning certificates attached as Annexure 1 2. JMR/Invoices attached as Annexure 2 along with ER calculation sheet version 02 dated 04.03.2022 3. Calibration certificates attached as Annexure 3				
DOE assessment				**Date:** 17/03/2022
1, Commissioning certificates have been submitted by project proponent 2. All JMR/Invoices have been submitted by project proponent and same are in line with revised MR and ER sheet of the project activity. 3. Calibration certificates have been submitted. Since supportive evidences have been submitted by the project proponent according to the requirement, thus this CL is closed now.				

CAR from this verification

CAR ID	01	**Section no.**		**Date:** 15/02/2022
Description of CAR				
There is inconsistency in the project start date mentioned in the MR and not in line with the commissioning certificates.				

Project participant response	Date: 04-March-2022
The start date mentioned in MR is 01-April-2008 while first commissioning for this project activity took place on 30-March-2008. This inconsistency is because of shifting of crediting period by 2 days. This has already been approved during Validation of this project activity. Please refer section 3.1 of Final Verification report for confirmation of the same.	
Documentation provided by project participant	
Final Validation report attached as annexure 4	
DOE assessment	**Date:** 17/03/2022
First commissioning for the project activity took place 30-March-2008 and same can be confirmed from the commissioning certificate. However, project proponent has opted for a crediting period of 10 years starting from 1st April 2008, which can be renewed twice. The selected crediting period is reasonable keeping in view VCS guidance for such project as well as operational lifetime of the proposed project is 20 years. Thus, this CAR is closed now.	

CAR ID	02	Section no.		Date: 15/02/2022
Description of CAR				
MR does not provide the details of GPS coordinates of each WTGs. Also the site names are not consistent with the commissioning certificates.				
Project participant response				**Date:** 04-March-2022
GPS co-ordinates along with site names consistent with commissioning certificates are being updated in VCS MR V02 dated 04.03.2022				
Documentation provided by project participant				
VCS MR V02				
DOE assessment				**Date:** 17/03/2022
GPS co-ordinates along with site names have been updated in VCS MR V02 dated 04-March-2022 in line with commissioning certificates. Thus, this CAR is closed now.				

CAR ID	03	Section no.		Date: 15/02/2022
Description of CAR				
MR does not provide the details of whether meters were replaced or not during monitoring period. Also MR does not provide information on the meter details and calibration dates and frequency.				

Project participant response	Date:
No meter has been replaced during current monitoring period which has now been reflected in VCS MR V02 dated 04.03.2022 along with information regarding meter make, type, accuracy class, serial number and frequency.	
Documentation provided by project participant	
Calibration reports attached an Annexure 3 along with VCS MR V02 dated 04.03.2022	
DOE assessment	**Date:** 17/03/2022
All calibration reports have been submitted. No meters have been replaced during the monitoring period. This has been confirmed in the revised MR (version 02) and it can be verified from the calibration certificate. Thus, this CAR is closed now.	

No Forward Action Request (FAR) was raised during this monitoring period.

2.5.1 Forward Action Requests

This is 2nd periodic verification of the project activity and no FAR was raised from validation or previous verification

2.6 Eligibility for Validation Activities

This section is not applicable for present verification.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project is not registered under any other GHG programs.

The project proponent has provided undertaking that it will not claim any GHG credits under UNFCC CDM during the current monitoring period.

3.2 Methodology Deviations

No methodology deviation is applied during the monitoring period.

3.3 Project Description Deviations

Deviation 01:

PP has requested for deviation in the HTSC number of four WEGs from the registered VCS PD. During the time of validation E797, E86 Q-48 and Q-51 438 were having HT SC numbers as 765, 754, 708 and 707 respectively which has been changed to 638, 631, 589 and 588 respectively. The details of the same is mentioned below: -

WEG IDs	Old HTSC numbers	New HTSC numbers
E797	765	638
E86	754	631
Q-48	708	589
Q-51	707	588

This deviation does not have any impact on the applicability of the methodology, additionality, or the appropriateness of the baseline scenario of this project activity.

This deviation has already been approved during previous verification and is applicable for the current one also.

Deviation 02:

PP has requested for addition of "EKI Energy Services Limited" as other entity involved during current monitoring period.

This deviation does not have any impact on the applicability of the methodology, additionality, or the appropriateness of the baseline scenario of this project activity and thus deviation is sought for the same from the registered PDD.

3.4 Grouped Project

This is not a grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the verification site visit it was concluded that the project is implemented as per the instruction of the registered final VCS PD and validation report. During the current monitoring period it was observed that no unforeseen situation evolved which can impact the operation of the project activity. Scheduled maintenance was carried out as per the instruction of the manufacturer and the same is acceptable to the assessment team.

The first WEG was commissioned on 31-March-2008 and the last machine was commissioned on 05-February-2009. The commissioning schedule is provided below:

VCS (Simran)

Sl.No	Loc. No	MW	Commissioning date	Site	District
TAMILNADU					
1.	E767	0.60	30-September-2008	Kozhumankondan	Dindigul
2.	E777	0.60	28-July-2008	Kovilammapatti	Dindigul
3.	E778	0.60	30-September-2008	Kovilammapatti	Dindigul
4.	E779	0.60	28-July-2008	Kovilammapatti	Dindigul
5.	E780	0.60	28-July-2008	Thalaiyuthu	Dindigul
6.	E781	0.60	28-July-2008	Melkaripatti	Dindigul
7.	E782	0.60	5-August-2008	Kovilammapatti	Dindigu
8.	E797	0.60	28-September-2008	Kattur	Coimbatore
9.	E86	1.50	1-September-2008	Kattur	Coimbatore
10	G-557	0.60	31-March-2008	Midapadi	Dindigul
11	G-970	1.50	31-March-2008	Kannamanaickanur	Coimbatore
12	Q48	1.50	30-March-2008	V.Kallipalayam	Coimbatore
13	Q51	1.50	31-March-2008	V.Kallipalayam	Coimbatore
14	Q199	1.50	31-March-2008	Kundadam	Erode
15	Q220	1.50	31-March-2008	Kethelrev	Erode
16	Q394	1.50	30-March-2008	Kethelrev	Erode

KARNATAKA					
1.	H29	1.5	30-September-2008	Koppalahalli	Hassan
2.	H34	1.5	30-September-2008	Aidahalli	Hassan
3.	K75	1.5	31-December-2008	Ellukurnahalli	Chitradura
4.	K76	1.5	05-February-2009	Ellukurnahalli	Chitadurga

VCS (Super)					
Sl.No	Loc. No	MW	Commissioning date	Site	District
1.	K342	1.50	31-December-2008	Kappalgudda	Gadag
2.	K345	1.50	31-December-2008	Kappalgudda	Gadag
3.	K346	1.50	30-September-2008	Kappalgudda	Gadag
4.	K347	1.50	31-December-2008	Kappalgudda	Gadag
5.	K350	1.50	30-Sepember-2008	Kappalgudda	Gadag
6.	K69	1.50	30-September-2008	Elkurnahalli	Chitradurga
7.	K70	1.50	30-September-2008	Elkurnahalli	Chitradurga

8.	K71	1.50	30-September-2008	Elkurnahalli	Chitradurga

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The project is neither registered nor rejected under any other GHG programs. The project has not received or sought any other form of environmental credit, or has become eligible to do so since validation or previous verification. The GHG emission reductions or removals generated by the project have not been included in an emissions trading program or any other mechanism that includes GHG allowance trading; and the sustainable development contribution.

After telephonic/Skype interviews with concerned onsite persons, document reviews & site videos/photographs submitted by PP; assessment team concluded that the project activity is still implemented and operated in-line with the registered VCS. There is no change in the project design or operation and monitoring practices at site which can alter the applicability or additionality of the project activity. In addition to the interviews with PP, assessment team have checked the commissioning certificate and tariff invoices and found that the project activity is implemented as per the VCS PD and Monitoring report submitted by the PP for current monitoring period. Assessment team therefore of the opinion that project is implemented as described in the registered PD and there is no change in monitoring practices as well as all monitoring parameters as envisaged in the VCS PD & MR. All the monitored values are supported by the evidences i.e.JMRs and invoices and found that information provided in the MR is inline with the submitted evidences.

The audit team has checked all the commissioning certificates of WTGs to confirm the location and the implementation of the project.

Means of verification

Referring to VCS v4 and p.360, p.361, p.363 and p.364 of CDM VVS PA, v2.0, the below tables provide a summary on the verification of each monitoring parameter listed in the registered monitoring plan.

Data / Parameter:	EG_{ey}
Data unit:	MWh (Mega-watt hour)
Description:	Electricity exported to the grid by the Project
Source of data used:	Electricity exported by the project activity to the grid as per as per JMR(Form - B)
Means of verification/Comments:	Electronic energy meter installed at grid interface which continuously monitors the electricity exported to grid, the reading of the meter are taken by grid authorities on monthly basis, a copy of which is provided to PP. The audit team has checked the monthly joint metering data reports for 2.0 MW plant for the complete monitoring period. IMPORT value has been taken from JMRs.
Cross-check	The monthly joint metering reports are cross checked by the audit team from the invoice raised by PP.

Compliance with the calibration frequency requirements for measuring instruments

As per the registered monitoring plan, the meters are to be calibrated annually. The audit team has checked the calibration certificates and records of the monitoring equipment as given below and no delay found in the calibration of the meters and

	monitoring equipment's. The details of the calibration of meters is given in the table below.
Conclusion	The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD. All parameters were monitored and determined as per the registered monitoring plan. Referring to p.360, p.361, p.363 and p.364 of CDM VVS PA, v2.0, VVB confirms through video call and telephonic interviews and from the document review, the actual monitoring system complies with the registered monitoring plan. The substantiation of this conformity on information flow for these parameters including the values in the monitoring reports is reported in the above section. During the verification, all relevant monitoring parameters of the registered monitoring plan have been verified with regard to the appropriateness of the verification method, the correctness of the values applied for ER calculation, the accuracy and applied QA/QC measures. After appropriate corrections, carried out by the project participant, it is confirmed that all monitoring parameters have been measured / determined without material misstatements and are in line with all applicable standards and relevant requirements. All parameters required to be monitored are recorded at the intervals required by the registered monitoring plan and the applied methodology. On the basis of review of source and nature of available evidences and records, the verification team confirms the quality of evidence for emission reduction provided is sufficient as per CDM VVS PA, v2.0.

Calibration of meters

WEG ID No.	HT SC No.	Make	Type	Meter Sl.No.	Accuracy Class	Test 1	Valid till	Test 2	Valid till
H-29	NA	L&T	Main	6760723	0.20%	11-January-2015	11-Januay-2017	07-January 2017	07-January 2019
		L&T	Check	7041036	0.20%	11-January-2015	11-January-2017	07-January 2017	07-January 2019
H-34	NA	L&T	Main	7041049	0.20%	11-January-2015	11-January-2017	07-January 2017	07-January 2019
		L&T	Check	7041050	0.20%	14-January-2015	14-January-2017	07-January 2017	07-January 2019
K-75	NA	L&T	Main	8001330	0.20%	20-January-	20-January-	12-January-	12-January-

						2015	2017	2017	2019
		L&T	Check	8001331	0.20%	20-January-2015	20-January-2017	12-January 2017	12-January 2019
K-76	NA	L&T	Main	8001334	0.20%	20-January-2015	20-January-2017	12-January 2017	12-January 2019
		L&T	Check	8001333	0.20%	20-January-2015	20-January-2017	12 - January 2017	12-January 2019
K-342	NA	L&T	Main	7041790	0.20%	04-January-2015	04-January-2017	02-January 2017	02-January 2019
		L&T	Check	7041792	0.20%	04-January-2015	04-January-2017	02-January 2017	02-January 2019
K-345	NA	L&T	Main	7041803	0.20%	15-January-2015	15-January-2017	12-January 2017	12-January 2019
		L&T	Check	7041821	0.20%	15-January-2015	15-January-2017	12-January 2017	12-January 2019
K-346	NA	L&T	Main	7041796	0.20%	21-January-2015	21-January-2017	17-january 2017	17-january 2019
		L&T	Check	7041808	0.20%	21-January-2015	21-January-2017	17-january 2017	17-january 2019
K-347	NA	L&T	Main	7041778	0.20%	24-January-2015	24-January-2017	20-January 2017	20-January 2019
		L&T	Check	8001337	0.20%	24-January-2015	24-January-2017	20-January 2017	20-January 2019
K-350	NA	L&T	Main	7041817	0.20%	22-January-	22-January-	20-January	20-January

						2015	2017	2017	2019
		L&T	Check	7041818	0.20%	22-January-2015	22-January-2017	20-January 2017	20-January 2019
K-69	NA	L&T	Main	7341551	0.20%	20-February-2015	20-February-2017	16-January-2017	16-January-2019
		L&T	Check	7341558	0.20%	20-February-2015	20-February-2017	16-January-2017	16-January-2019
K-70	NA	L&T	Main	7341559	0.20%	20-February-2015	20-February-2017	16-January-2017	16-January-2019
		L&T	Check	7341560	0.20%	20-February-2015	20-February-2017	16-January-2017	16-January-2019
K-71	NA	L&T	Main	7341571	0.20%	20-February-2015	20-February-2017	16-January-2017	16-January-2019
		L&T	Check	7341577	0.20%	20-February-2015	20-February-2017	16-January-2017	16-January-2019

With above details, it can be concluded that there is no delay in main and check energy meter calibration during this monitoring period.

4.2 Safeguards

4.2.1 No Net Harm

The project do not have any negative environmental and social impacts.

4.2.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration. As confirmed by PP during interviews, for on-going stakeholders' communication, PP has maintained feedback/complaint register at the site office. Local stakeholders can anytime lodge their grievances if any in the register over the operational life time of the project.

During current monitoring period no grievance was received. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate."

4.3 AFOLU-Specific Safeguards

This section is not applicable as this project activity is a non-AFOLU project activity.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The assessment of data and the calculation of baseline emission reduction in the MR and the ER excel sheet have been verified as per the following set of supporting documents: The audit team has verified the data pertaining to the complete monitoring period based on the below documents. The baseline emissions have been calculated based on the emission factor and the net electricity generation. 1. Joint Meter Reading (JMR) 2. Monthly Invoices 3. VER spreadsheets
Conclusion	Calculations applied formulae and method for calculation of baseline emission are in accordance with the registered monitoring plan and are in line with the requirements of the applied methodology.

Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	No project emissions since this is a wind power project.
Conclusion	Not Applicable

Calculation of leakage GHG emissions

Means of verification	No leakage emissions
Conclusion	No leakage emissions

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	No lack of evidence and missing data were detected during this monitoring period. All values as per the monitoring plan were crosschecked by the verification team against basic monitored data and the calculations were found to be correct. The verification team confirms that all assumptions, emission factors and default values have been correctly justified. All the emission factors, application of maximum permissible errors and default values are explicitly mentioned in the monitoring report. Hence the VVB confirms that the methods and formulae used to obtain the emissions are appropriate. No reporting risks have been identified for the data reported. Troubleshooting procedure, maintenance and calibration of monitoring equipment, monitoring measurements and reporting, record handling and maintenance, reviewing monitored data are available at the plant. All the monitored data are archived partially in electronic and paper form. The data will be kept for the whole crediting period and 2 years after the last crediting period thereby meeting the requirement of the monitoring plan. Verified emission reductions in this monitoring period: 33,189 (round down to nearest integer) tCO2e Baseline: 33,189 tCO2e Project emissions: 0 tCO2e Leakage: 0 tCO2e
Conclusion	The formulae and the methods referred in the MR and the emission reduction calculation spread sheet comply with the methods described in the registered PDD. No lack of evidence and missing data were detected during this monitoring period. All values as per the monitoring plan were crosschecked by the verification team against basic monitored data and the GHG emission calculation is found correct. TUV SUD confirms that all assumptions, emission factors and default values have been correctly justified. All the emission factors and default values are explicitly mentioned in the monitoring report. Calculations applied formulae and method for calculation of GHG emission are in accordance with the registered monitoring plan and are in line with the requirements of VCS, the applied methodology and p. 372, p.373 of CDM VVS PA ver 2.0.

4.6 Non-Permanence Risk Analysis

Not Applicable

5 VERIFICATION CONCLUSION

The VVB confirms that

- the development and maintenance of records and reporting procedures are in accordance with the registered monitoring plan;
- the project is operated as planned and described in the project design document approved by the VCS;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the monitoring plan in Monitoring Report is as per the VCS PD and monitoring plan approved by the VCS;
- the approved monitoring plan in the approved VCS DD is as per the applied methodology;
- There is an audit trail that contains the evidence and records that validate the stated figures.

Based on the information we have seen and evaluated, we confirm that the project activity achieved the verified amount of reductions in anthropogenic emissions by sources of greenhouse gases that would not have occurred in the absence of the project activity.

The ERs during the current monitoring period is 33,189 tCO_2e. Considering the annual average emission reductions as per the registered PDD which is is 81,947 tCO_2e per year, the number of days covered during the current monitoring period comes out to be 465 days based upon which the estimated emission reductions attributed to this monitoring period comes out to be 64,324 tCO_2e. The actual VER is 48.40 % lower than the estimated VER.

Verification period: 21 December-2016 to 30-March-2018(both days including)

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

Year	Baseline emissions or removals (tCO2e)	Project emissions or removals (tCO2e)	Leakage emissions (tCO2e)	Net GHG emission reductions or removals (tCO2e)
2016	1,147	0	0	1,147
2017	28,475			28,475
2018	3,567	0	0	3,567
Total	33,189	0	0	33,189

APPENDIX 1: <DOCUMENTS REVIEWED>

No.	Author	Title	References to the document
1.	UNFCCC	CDM VVS for PA v2.0	-
2.	UNFCCC	ACM0002– Grid-connected electricity generation from renewable sources, version. 10	-
3.	Verra	VCS Standard v4.0	-
4.	NA	Draft Monitoring report (2nd VCS Verification)	Version 01 19-January-2022
5.	NA	Final Monitoring report (2nd VCS Verification)	Version 02 04-March-2022
6.	NA	Emission Calculation sheet version 01	Version 01 19-January-2022
7.	NA	Revised Emission Calculation sheet version 02	Version 02 04-March-2022
8.	NA	The operational lifetime of the project activity from the manufacturer=(Technical specefications)	Manufacturer technical specifications
9.	NA	Ministry of Environment and forest: www.envfor.nic.in UNFCCC www.cdm.unfccc.int CEA: Central electricity authority www.cea.nic.in VCS: Verified Carbon Standard www.v-c-s.org	Reference link is provided.
10.	NA	Tools/ guidelines used in the project activity • Tool to calculate the emission factor for an electricity system version 02 • VCS verification report template version 4.0 • CDM tool for demonstration of additionality version 5.2	UNFCCC CDM web site
11.	Super and Simran Wind Power projects Ltd.	Joint Metering Reports for Wind power plant	21 December-2016 to 30-March-2018
12.	Super and Simran Wind Power projects Ltd	Monthly Invoices for Wind power plant	21 December-2016 to 30-March-2018
13.	NA	Commissioning Certificate	04-March-2022

14.	NA	Letter of declaration dated from PP regarding not having created or sought any other form of environmental credit for the same period and double counting	15-February-2022
15.	NA	Break down details of the complete monitoring period	Log sheet
16.	NA	Skype and telephonic interviews carried out with PP as part of remote audit due COVID-19 situation in India	NA
17.	NA	Site photographs	-
18.	NA	GPS Coordinates	-

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