



BUNDLED WIND POWER PROJECT IN GUJARAT AND TAMIL NADU



South Asia

TÜV SÜD South Asia Pvt.Ltd.

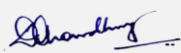
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Report ID	ET - 006718
Project title	Bundled Wind Power Project in Gujarat and Tamil Nadu
Project ID	1862
Verification period	01-August-2021 to 31-October-2022
Original date of issue	02 February 2024
Most recent date of	17 March 2024

issue	
Version	01
VCS Standard Version	4.5
Client	M/s Venus Textile Service, JB Ecotex LLP, J. Korin Spinning Private Limited and Oriilion India Private Limited
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Summary:

TÜV SÜD South Asia Pvt. Ltd. has performed the third verification of the VCS project activity “Bundled wind power project in Gujarat and Tamil Nadu” Reference No 1862 for the monitoring period 01-August-2021 to 31-October-2022. The verification criteria includes VCS Standard 4.5 and associated documents.

The verification process includes three phases:

- Desk review of documents.
- Remote 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 generates electricity from wind power. The project activity involves installation of combined capacity of 12.8 MW wind power projects in the states of Gujarat and Tamil Nadu in India the generated power from this project is supplied to Indian grid.

The project has been implemented by four different companies namely M/s Venus Textile Service, JB Ecotex LLP, J. Korin Spinning Private Limited and Oriilion India Private Limited with 7 nos. WTGs. The project activity has been commissioned in 2017 and 2019 for all 7 nos. WTGs installed in the project activity.

The project has not been registered under any other mechanism. The start date of the project activity

is 30 March 2017 (Commissioning Date for 1.5 MW WTGs of Venus Textile Service) which is the earliest commissioning date of this bundled project activity. The implementation of this project activity and the monitoring system is in accordance with the registered PD.

4 Clarification Request (CL) and 4 Corrective Action Requests (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.

There are no uncertainties involved in the verification process. TÜV SÜD confirms all verification activities including objectives, scope and criteria, level of assurance, monitoring and monitoring report adhere to VCS Standard Version 4.5 and all associated updates as documented in this report, are complete. TÜV SÜD concludes that the project activity “Bundled wind power project in Gujarat and Tamil Nadu” in India, as described in the final Monitoring Report version no. 3 dated 29/02/2024, meets all relevant requirements for VCS verification activity and correctly applied the methodology AMS I-D. Version 18. Hence TÜV SÜD is able to certify that the GHG emission reductions from the project during the monitoring period 01-August-2021 to 31-October-2022 amount to 39,951 tCO₂e.

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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 “AMS ID - Version 18”
- the project’s monitoring plan is assessed against “AMS ID - Version 18”
- 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 standard V4.5 requirements
- 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 project activity generates electricity from wind power. The project activity involves installation of combined capacity of 12.8 MW wind power projects in the states of Gujarat and Tamil Nadu in India the generated power from this project is supplied to Indian grid.

The project has been implemented by four different companies namely M/s Venus Textile Service, JB Ecotex LLP, J. Korin Spinning Private Limited and Orilion India Private Limited with 7 nos. WTGs. The project activity has been commissioned in 2017 and 2019 for all 7 nos. WTGs installed in the project activity. The capacities of the project activity of each project developers are given below:

Name of Investor	Capacity in MW	Commissioning date	WTG No	District	Connection with Grid	State	Usage
M/s Venus Textile Service	1.50 MW	30-March-2017	T-48 (TNW00762)	Theni	Indian Grid	Tamil Nadu	Sale to State Discom
	1.50 MW	30-March-2017	T-49 (TNW00755)				
	1.50 MW	31-March-2017	T-62 (TNW00877)	Dindigul			
	2.0 MW		TNW02182	Karur			Sale to Third Party ¹

¹ WTG is connected to the state grid and wheeling agreement is signed between PP & State Utility.

M/s JB Ecotex LLP	2.10 MW	17-October-2017	GJ- 3896- B	Jamnagar	Indian Grid	Gujarat	Captive ²
M/s J. Korin Spinning Private Limited	2.10 MW	02-August-2017	GJ- 3947-B	Kutch			
M/s Oriilion India Private Limited	2.10 MW	31-March-2018	GJ- 3893- B	Jamnagar			

The total GHG emission reduction in this monitoring period 01-August-2021 to 31-October-2022 (inclusive of both days), the project is replacing anthropogenic emissions of greenhouse gases (GHG's) of 39,951 tCO₂e. thereon displacing 42,652 MWh amount of electricity generation in current monitoring period.

2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification was conducted using TUV SUD procedures in line with the requirements specified in the VCS Requirements and VVB guidance, i.e. VCS Program Guide, VCS Version 4.4 of 29 August 2023, VCS Standard, VCS Version 4.5 of 11 December 2023 and Validation and Verification Manual, VCS Version 3.2 of 19/10/2016. The GHG emission reductions are on the basis of the approved Baseline and monitoring methodology “AMS-I.D”, “Grid-connected electricity generation from renewable version 18.0,.

The verification consisted of the following three phases:

² All WTG are connected to the state grid and wheeling agreement is signed between PP & State Utility

- Document review;
- Remote audit including Interviews;
- Resolution of Any Material Discrepancy and the issuance of the final verification report and certification.

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 an remote assessment done on 02/02/2024, which results in the formation of list of findings. The next step involves the evaluation of response to the findings and then preparation of the draft final verification report upon satisfactory resolution of findings. The draft final verification report undergoes technical review followed by a quality check 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 performed remote audit in accordance with requirements of 4.1.12 and 4.1.13 of VCS standard v 4.5. However, the VVB has ensured that reasonable level of assurance has been achieved. In the remote audit, VVB has conducted interviews, and online meeting to discuss with the PP key topics such as project design, implementation & operational status of the project, continuous feedback from stakeholders and grievances mechanism, maintenance of WTGs, trainings provided to O&M staff on operation, maintenance, monitoring/measurement of net electricity or data/parameters needed for quantification of GHGs, compliance with the monitoring plan with respect to applied methodology, monitoring, measurement, recording of data and parameters required as per registered PD, monitoring equipment & calibration, calculation of GHG ERs, MR. The interviews and discussions were conducted successfully during off-site audit on 02/02/2024 and mentioned below in the table:

No .	Interviewee			Date	Subject
	Last name	First name	Design ation		
			Compan y Name		

1.	-	Ravindra	O&M engineer	Suzlon	02/02/2024	Plant technology & instruments details and monitoring.
2	Bhawsal	Gaurav	Project coordinator	M/s JB Ecotex LLP	02/02/2024	Plant technology, Local Stakeholder consultation and monitoring.
3	Kejriwal	Vishal	CEO	M/s JB Ecotex LLP/ M/s J. Korin Spinning Private Limited	02/02/2024	Monitoring Plan & plant technology.
4	Shankaran	D	project coordinator	M/s Venus Textile Service	02/02/2024	To discuss grievance against the project as a part of on going feedback mechanism
5	subramanyam	Methews D	MD	M/s Venus Textile Service	02/02/2024	To discuss grievance against the project as a part of on going feedback mechanism

2.4 Site Visits

The verification remote Audit was conducted on 02/02/2024. Assessment team checked the implementation of the project, Emission reduction calculation, technical description of the project and monitoring as described in the above section. Assessment team also checked that whether the monitoring plan as described in the VCS PD is practised onsite. Also, assessment team checked any change in host country criteria which may affect the baseline of the project activity and found that there is no such change that would require reassessment of baseline scenario.

2.5 Resolution of Findings

Material discrepancies identified during verification are addressed either as CARs, CLs or FARs. A **Corrective Action Request (CAR)** is established where:

1. The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions,
2. VCS Standard Version 4.5 requirements have not been met,
3. There is a risk that the emission reductions cannot be monitored or calculated.

A **Clarification Request (CL)** will be issued where information is insufficient, unclear or not transparent enough to establish whether a requirement is met.

A **Forward Action Request (FAR)** will be issued when certain issues related to project implementation should be reviewed during the next verification.

A detailed list of the CARs CLs and FAR raised and discussed in the course of this verification is included in Appendix 3 of this report.

4 Clarification Requests (CLs) and 4 CARs have been raised during verification process. No Forward Action Request (FAR) was raised during this monitoring period by TÜV SÜD. All the findings were resolved by the PP. The final MR Version 03 submitted by project owners on 29-February-2024 serves as the basis for the final assessment presented.

2.5.1 Forward Action Requests

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

2.6 Eligibility for Validation Activities

TUV SUD is accredited for validating and verifying GHG emission reduction project activities falling under sectoral scope 1, Energy industries (renewable - / non-renewable sources).

3 VALIDATION FINDINGS

3.1 Methodology Deviations

The project activity has been implemented as described in the VCS-PD and there was no methodological deviation applied during the monitoring period.

3.2 Project Description Deviations

Deviation 1:

As per the section 5.3 of the registered PD there were both main meter and check meter mentioned for Theni and Gujarat site, however as per actual onsite practice there are only main meter installed in the site. Therefore, deviation has been taken in this monitoring report and the same has been updated in section 4.2 and 4.3 of the monitoring report.

The above-mentioned deviation is of permanent nature and does not have any impact on the project applicability, baseline scenario and additionality.

In both the site the project metering is being done at 2 places at Substation end and at Controller end where SCADA System is in place to record the daily generation, in case of main meter failure or malfunction, controller reading will be considered after application of 1% Line Losses to get the values of power generated for that particular period.

Above deviation (Deviation 1) was taken in the last verification.

Note- This deviation (1) had been taken in previous monitoring period of verification that is – (01-March-2019 To 31-July-2021)

Deviation 2: In both the site the project metering is being done at 2 places at Substation end and at Controller end where SCADA System is in place to record the daily generation, in case of main meter failure or malfunction, controller reading will be considered after application of 1% Line Losses to get the values of power generated for that particular period.

Above deviation (Deviation 1) was taken in the last verification.

Note- This deviation (1) had been taken in previous monitoring period of verification that is – (01-March-2019 To 31-July-2021)

As per registered PD the geocoordinate of the project activity was not correct hence taken a deviation in this monitoring period and correct the geo coordinate of all the location of project activity and corrected in the section 1.7 of MR.

The Longitude (E) and Latitude of the following location of the has been updated in the monitoring report to ensure more accurate detection.

Note- This deviation (2) had been taken in previous monitoring period of verification that is – (01-March-2019 To 31-July-2021)

Name of Investor	Capacity (MW)	Village(s)	Tehsil / Mandal	District	State	Latitude (N)	Longitude (E)
M/s Venus Textile Service	1 X1.5 MW	Seepala--kottai;	Uthama--palayam	Theni	Tamil Nadu	9°50'43.8"N	77°27'03.8"E
	1 X1.5 MW					9°50'28.0"N	77°27'03.2"E
	1 X1.5 MW	Odaipatti	Oddan--chatram	Dindigul		9°49'20.2"N	77°26'35.0"E
	1 X 2.0 MW	Venjamangudalur		Karur		10°44'07.4"N	77°26'01.9"E

M/s JB Ecotex LLP	1 X 2.10 MW	Hadiyana	Jodiya	Jamnagar	Gujarat	22° 34' 12.3 "N	70° 14' 06.6"E
M/s J. Korin Spinning Private Limited	1 X 2.10 MW	Karmata	Abaza	Kutch		23° 23' 48.0 "N	68° 37' 44.6"E
M/s Oriilion India Private Limited	1 X 2.10 MW	Baradi	Jodiya	Jamnagar		22° 33' 38.9 "N	70° 15' 08.9"E

The deviation doesn't impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario. The coordinates for all the WTGs have been revised and are recorded.

Above are the deviation approved in previous the verification. The nature of deviation is permanent.

3.3 New Project Activity Instances in Grouped Projects

The verification team confirms that the project is not a grouped project and hence this is not applicable to the project activity.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes

☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

Item	Evidence gathering activities, evidence checked, and assessment conclusion:
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Audit history	Section 1.2 of the MR provide the detail audit history. All the verification reports were collected from Verra portal and verified with respect to their verification period, verification body and audit type and it is confirmed that verification took place in the specified time for Project Activity. VCS/1862
Double counting and participation under other GHG programs	PP has provided no double counting declaration where it confirms that project receiving or seeking credit for reductions and removals from a project activity under another GHG program.
No double claiming with emissions trading programs or binding emission limits	Assessment team confirms that the net GHG emission reductions or removals generated by the project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions in any Emission Trading program or other binding limits. Also, project activity is not part of any other registries including Indian REC scheme. Same has been confirmed by assessment team with project details available in other registries and also with project list available on official REC website. Further, no double accounting declaration submitted by project proponent to confirm the above,
No double claiming with other forms of environmental credit	As per MR and undertaking provided, PP would not consider the credit from any other mechanism for the current monitoring plan.
Supply chain (scope 3) emissions double claiming	The project proponent(s) is not a buyer or seller of a product whose emissions footprint is changed by the project activities.
Sustainable development contributions	During this monitoring period, the project activity has contributed to Sustainable Development Goals (SDG) which are the SDG 7, 8 and 13. The project activity has beneficial effect on the local environment and employment in the nearby region. Electricity generation through wind power technology result in avoidance of consumption of fossil fuels which results in contribution to SDG 7. The emission avoidance through these activities results in contribution to SDG 13. It also contributes in the social development through employments generation i.e., SDG 8 and same has been confirmed with salary slip

Additional information relevant to the project

No commercially sensitive information that has been excluded from the public versions of project documents conforms with the VCS Program requirements.

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

This section is not applicable as there is not stakeholder makeup change since validation.

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

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	As a part of on-going communication with local stakeholders, end users were informed about grievance register. Thus, ongoing communication of stakeholders was followed through grievance mechanism. If any concerns received during operation of project activity, same were to be addressed if relevant to project activity.

Date(s) of stakeholder consultation	Location	State	Date
	2 x1.5 MW WTGs of M/s Venus Textile Service Seepalakottai, Theni	Tamil Nadu	12/07/2016
	1 x1.5 MW WTGs of M/s Venus Textile Service in village Odaipatti, Dindigul		14/07/2016
	1x2.0 MW WTG of M/s Venus Textile Service Playam,		20/12/2018
	1x2.1 MW WTG of M/s JB Ecotex LLP in Village Hadiyana	Gujarat	23/08/2016
	1x2.1 MW WTG of M/s Oriillion India Private Limited, Baradi		23/03/2017
	1x2.1 MW WTG of M/s J Korin Spinning Mills Private Limited, Karmata		12/08/2016

Communication of monitored results	Not applicable
Consultation records	The grievance register is maintained by the project participant.
Stakeholder input	There has been no grievance received for the current monitoring period.

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	The project does not involve indigenous people thus this section is not applicable.
Outcome of FPIC discussion	Not applicable

4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	No grievance has been received during the project monitoring period and the same has been confirmed by grievance register.
Grievance redress procedure	There have been no grievances recorded for the current monitoring period.

4.2.5 Public Comments

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
There is no public comments received during	Not Applicable, as no public comments	Not Applicable, as no public comments received.

the consultation.	stakeholders'	received.	
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4.2.6 Risks to Local Stakeholders and the Environment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Risks to stakeholder participation	During the remote site visit it has been verified and confirmed that the project involves no risk to the stakeholder participation.
Working conditions	This project activity is a wind project activity is away from the residence of the stakeholders. Still, from time-to-time stakeholders are advised to stay away from electrical components, O&M contractor appointed by the PP follows safe working conditions keeping in mind safety and hazards of working on wind turbines. The same has been confirmed during remote audit.
Safety of women and girls	Meetings are held with stakeholders on women's safety and stakeholders are made aware of women's safety. Meeting held with women's stakeholders for mitigating their vulnerability to potential incidents. During the remote visit it has been verified and confirmed by the PP that the project involves no risk to the safety of women and girls.
Safety of minority and marginalized groups, including children	There are no minority or marginalized groups residing around wind turbines. Rather, the stakeholders who are part of the project do not include people from minority or marginalized section of society. Hence, this section is not applicable.
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	This project activity is a wind project activity, Hence there is not any discharge of water and no pollutants in the air due to project activity. Waste generated from the project activity is collected and disposed by the O&M contractor in line with regulatory requirements. During the remote audit, it has been verified and confirmed that the project activity discharges no waste into the environment or releases pollutants. The wind turbines generate noise when in operation and has shadow/flicker effect. However, as stated above, there are no residential colonies which will get affected by the noise/shadow-flicker effect. Hence, risk posed to local stakeholders with respect to these effects is found negligible.

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination and sexual harassment	The PP strictly follows the national laws prohibiting discrimination and sexual harassment. There has been no reports of discrimination and sexual harassment for this monitoring period. It has been verified and confirmed during the remote audit that no discrimination or sexual harassment occur in project activity according to the law.
Management experience	No new entity has been involved in project design or implementation, hence not applicable. It has been verified and confirmed during the remote audit that no new entity is involved in project design or implementation.
Gender equity in labor and work	The PP strictly follows the national laws promoting the gender equality in labor and work. It has been verified and confirmed during the remote audit that Gender equity in labour has been respected by the project proponent and employee payment has been paid by following the Indian Labour Protection Act.
Human trafficking, forced labor, and child labor	The PP strictly follows the national laws prohibiting human trafficking, forced labor and child labor. There have been no reports of human trafficking, forced labor and child labor for this monitoring period. It has been verified and confirmed during site visit that there is no human trafficking, forced labour, and child labour in the project activity as it follows the Indian Labour Protection Act.

4.2.7.2 Human Rights

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

4.2.7.3 Indigenous Peoples and Cultural Heritage.

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Preservation and protection of cultural heritage	There are no communities living in the nearby vicinity of the project area or in the area where wind turbines are located. Thus, this section is not applicable.

4.2.7.4 Property Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Disputes over rights to territories and resources	As there are no disputes over rights to territories and resources, Hence, this section is not applicable.
Respect for property rights	There are no disputes for property rights. Hence, this section is not applicable.

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	The project activity does not involve the property rights. Thus, this section is not applicable.
Benefit sharing during the monitoring period	The project activity does not involve the property rights. Thus, this section is not applicable.

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	The project is not located in biodiversity sensitivity zone. Hence, this section is not applicable.

Soil degradation and soil erosion	From the project feasibility report, it was confirmed that the project does not cause soil degradation or soil erosion during its operation. Hence, this section is not applicable.
Water consumption and stress	Project includes operation of wind turbines. Operation of wind turbines do not cause water stress in the region due to heavy water consumption. Hence, this section is not applicable.
Usage of fertilizers	N/A

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	The project is not located in, or adjacent to habitats for rare, threatened, or endangered species. Thus, this section is not applicable.

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
No Species have been introduced during the monitoring period.	N/A

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
	N/A

4.2.8.3 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	N/A

4.3 Accuracy of Reduction and Removal Calculations

During the desk review, all relevant documents were checked to assess the correctness and quality of data submitted by the project participants, which are used to determine emission reductions. Electricity generation was verified with the JMR and Invoices and meter reports to

ensure that there is no over estimation of the VCUs. The provided data was found to be of adequate quality.

All records needed for monitoring are archived in line with the requirements of the registered monitoring plan. No significant, lack of evidence and missing data were detected during verification. Hence, the verification team confirms that the monitoring system ensures required quality of the monitoring system to ensure the quality of the monitored data. All internal data are subjected to QA/QC measures. All the roles and responsibilities for monitoring and reporting have been clearly defined. Based on document review provided in the appendix D and interview, it was found that the management and operational structure is in line with that stated in the registered monitoring plan. All the meters were calibrated at appropriate calibration frequency (described in Annexure C) to ensure the quality of the data. For any delay in calibration, maximum error factor of the instrument is applied over the measured value to estimate emission reductions conservatively. The monitoring plan is described in section 3.4 of the registered PD. The documented procedure for VCS monitoring program has been established and implemented. This document describes the scope of the VCS project, the responsibilities of individuals involved, job descriptions and scope, and emergency preparedness and response measures. The daily operation data recording and laboratory analysis were carried out by the plant operator. The report was checked and approved by the QA manager. The QA manager controls all equipment calibrations.

QA/QC Procedures for WTG's operation in Tamil nandu State:

Data Archiving: The metering equipment has been maintained in accordance with electricity standards and have the capability of recording daily and monthly readings. Records of joint meter reading is maintained at site and a copy is kept with the project owner. Necessary records of calibration are maintained by both State Electricity Board and project proponent. The Generation Data and other related documents will be kept for 2 years after the whole crediting period. All monitored data is stored / archived under safe custody of the project executor and controller for a period of crediting period + 2 years.

QA/QC Procedure: - The main meter has been tested for accuracy, with a portable standard meter, by the SEB or authorized Testing Laboratories at the cost of PP. The TANGENCO is carrying out the calibration, periodical testing, sealing & maintenance of meters once in 5 years in the presence of authorized representative(s) of PP sign on the result thereof. The frequency of meter testing has been done once in 5 years, as per CEA Guidelines. All meters are usually tested only at the metering point. If during testing, the main meter is found within the permissible limits of error i.e. 0.2%, the energy computation is as per the main meter. The main meter shall be calibrated & the energy for the period thereafter shall be as per the calibrated main meter. During any point of time if the main meter turns faulty, the reading for that period

will be considered as nil. The correction required as per result of testing will be applied to generation & consumption of energy for the period from last meter reading to the time of such test checks. Energy from the period there after shall be in accordance with calibrated main meter. The net electricity supplied to the grid can be cross checked with the invoices raised / sales receipts by project investor to State Electricity Board or Third Party.

QA/QC Procedures for WTG's operation in Gujarat State:

Data Archiving: The metering equipment has been maintained in accordance with electricity standards and have the capability of recording daily and monthly readings. Records of Monthly Share Certificates is being maintained at site and a copy also kept with the project owner. Necessary records of calibration are maintained by both State Electricity Board and project proponent. The Generation Data and other related documents will be kept for 2 years after the whole crediting period. All monitored data is stored / archived under safe custody of the project executor and owner for a period of crediting period + 2 years.

QA/QC Procedure: - The main meter is being tested for accuracy, with a portable standard meter, by the SEB or authorized Testing Laboratories at the cost of PP. GETCO carry out the calibration, periodical testing, sealing & maintenance of meters once in 5 years in the presence of authorized representative(s) of PP shall sign on the result thereof. The frequency of meter testing is done once in 5 years, as per CEA Guidelines. All meters are being tested only at the metering point. The SEB provide a copy of the test reports to the PP. The energy computation is as per the main meter. The main meter is calibrated immediately & the energy for the period thereafter is as per the calibrated main meter. During any of the monthly meter readings, if the main meter is faulty the value for that period will be considered as nil. Correction required as per result of testing will be applied to generation & consumption of energy for the period from last meter reading to the time of such test checks. Energy from the period there after shall be in accordance with calibrated main meter. The net electricity supplied to the grid can be cross checked with the monthly electricity bills.

Emergency preparedness

The project activity has not been resulting in any unidentified activity that can result in substantial emissions from the project activity. No need for emergency preparedness in data monitoring is visualized.

Personnel training

In order to ensure a proper functioning of the project activity and a properly monitoring of emission reductions, the staff are also trained. The plant helpers have been trained in equipment operation, data recording, reports writing, operation and maintenance and emergency procedures in compliance with the monitoring plan.

TUV SUD's is of the opinion that this method of estimation is accurate and results in conservative

estimation of emission reduction and is line with the applicable VCS requirements.

4.4 Quality of Evidence to Determine Reductions and Removals

Data and parameter Monitored

Means of Verification	Project	For Gujarat Site	
		Data / Parameter	EGPJ, Gujarat
		Data unit	MWh
		Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh
		Source of data	Monthly Share Certificate issued by GETCO
		Description of measurement methods and procedures to be applied	The difference of final value of export and import is used for monthly values of net electricity supplied to the grid by the project activity and same value is being considered for ER calculations.
		Frequency of monitoring/recording	Continuous measurement & monthly recording
		Value monitored	21,297.988
		Monitoring equipment	The electricity exported / supplied by the plant to pooling substation and further to substation. This meter also measures electricity imported by the plant from the grid.
QA/QC procedures to be applied		The meters are approved, tested & sealed by the State Utility. The meters are in the custody of State Utility. The frequency of calibration is once in 5 years. The monthly electricity supplied/exported by the project activity in the Share Certificate is cross checked with the monthly electricity bills being a captive project. In the absence or delay in the meter calibration appropriate Guidelines are being applied appropriately to confirm the conservativeness of metering. The metering arrangement, accuracy class of meters, calibration frequency is under control of state electricity board and PP do not have any control on it. PP is getting value of net electricity supplied to grid and the same is considered the monitoring parameter. The billing is raised based on substation meters. Please refer appendix 1 for Meter details	

	Purpose of the data	Calculation of baseline emissions
	Calculation method	Thus, Net electricity supplied to the grid by the project plant in a given month = Export, kWh – Import, kWh
	Comments	Data would be archived during the whole crediting period + 2 years
	For Tamil Nadu	
	Data / Parameter	EGPJ, y Tamil Nadu
	Data unit	MWh
	Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh
	Source of data	Monthly joint meter reading reports
	Description of measurement methods and procedures to be applied	The difference of final value of export and import is used for monthly values of net electricity supplied to the grid by the project activity and same value are being considered for ER calculations.
	Frequency of monitoring/recording	Continuous measurement & monthly recording
	Value monitored	21,354.251
	Monitoring equipment	The electricity exported / supplied by the plant to pooling substation and further to substation. This meter also measures electricity imported by the plant from the grid.
	QA/QC procedures to be applied	The meters are approved, tested & sealed by the State Utility. The meters are in the custody of State Utility. The frequency of calibration is once in 5 years ³ . The monthly electricity supplied/exported by the project activity in the JMR report is cross checked with the monthly invoices of sale. In the absence or delay in the

³ https://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

		meter calibration appropriate Guidelines are being applied appropriately to confirm the conservativeness of metering. The metering arrangement, accuracy class of meters, calibration frequency is under control of state electricity board and PP do not have any control on it. PP is getting value of net electricity supplied to grid and the same is considered the monitoring parameter. The billing is raised based on substation meters. Please refer appendix 1 for meter details
	Purpose of the data	Calculation of baseline emissions
	Calculation method	Thus, Net electricity supplied to the grid by the project plant in a given month = Export, kWh – Import, kWh
	Comments	Data would be archived during the whole crediting period + 2 years
	Compliance with the calibration frequency requirements for measuring instruments As per the registered monitoring plan, the meters are to be calibrated once in 5 years. The audit team has checked the calibration certificates and records of the monitoring equipment as given below and found that there was delay in calibration during the monitoring period. The details of the calibration of meters are given in the table below.	
Findings	CAR 04 was raised	
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. 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. Due to delay in calibration of meters as described below, PP applied error factor and same can be verified from the ER sheet. 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 evidence and records, the verification team confirms the quality of evidence for emission reduction provided is sufficient as per requirements of VCS standard 4.5.	

Calibration of the meters

S. No.	WTG No.	Meter No.	Make	class	Calibration Date	Validity	Delay in days
1	SEL/2100/17-18/4938	GJ- 3896- B	EDMI	0.2 s	30-Aug-17	29-Aug-22	61
2	SEL/2100/17-18/4868	GJ- 3947-B	EDMI	0.2 s	30-Jul-17	29-Jul-22	91
3	SEL/2100/17-18/4973	GJ- 3893- B	EDMI	0.2 s	28-Feb-18	25-Feb-23	0
4	T-62	TNW00877	Secure	0.2 s	30-Mar-17	29-Mar-22	211
5	T-48	TNW00762	Secure	0.2 s	30-Mar-17	29-Mar-22	211
6	T-49	TNW00755	Secure	0.2 s	30-Mar-17	29-Mar-22	211
7	2.0 MW	TNW02182	Secure	0.2 s	31-Mar-19	30-Mar-24	0

Means of Project 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.
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 PD. 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 and the applied methodology. The audit team also confirms that there are no material misstatements or errors in the emission reduction calculations.

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

Where:

BE_y : Baseline emissions in year y (tCO₂e)

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

$EF_{grid,CM,y}$: Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system” (tCO₂e/MWh)

Parameter	Unit	Value
$EG_{PJ,y}$ (Gujarat + Tamil Nadu)	MWh	21,297.988+ 15,909+5,445.709 = 42,652 MWh
$EF_{grid,CM,y}$	tCO ₂ e/MWh	0.9368
BE_y	tCO ₂ e	39,951tCO ₂ e (Round down)

Project emissions:-

Since the project activity involves generation of power through wind, there is no project emissions associated with the project activity.

Hence, $PE_y = 0$

Leakage emissions:-

Leakage is not applicable, as the conditions prescribed for leakage in para 13 (Page no 4) of the methodology AMS I.D. version 18 is not applicable for the present case.

Hence, $LE_y = 0$

4.5 Non-Permanence Risk Analysis

The project is not a forestry project. Hence this section is not applicable.

5 VERIFICATION OPINION

5.1 Verification Summary

TÜV SÜD South Asia Pvt. Ltd has performed verification of the emission reductions reported for the project activity “Bundled wind power project in Gujarat and Tamil Nadu”, Reference number 1862 for the period 01 August 2021 to 31 October 2022, with regard to the relevant requirements of VCS Standard 4.5. The project participants M/s Venus Textile Service, M/s JB Ecotex LLP, M/s J. Korin Spinning Private Limited, M/s Oriilion India Private Limited is responsible for:

1. The preparation of greenhouses gas emissions data and reported greenhouse gas emission reductions from the project on the basis set out in the monitoring plan contained in the registered VCS PD.
2. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of greenhouse gas emission reductions of the project.

Based on documented evidence and corroborated by interviews with stakeholders, TÜV SÜD South Asia Pvt. Ltd. can confirm that:

- the project has been implemented and operated as per the registered VCS-PD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS Standard version 4.5 and program guide v4.4;
- the monitoring is in place as per the applied baseline and monitoring methodology;
- the monitoring plan in the registered VCS-PD is as per the applied baseline and monitoring methodology
- *Level of assurance on the quantity of GHG emission removal in tCO₂e achieved by the project during the verification period as provided in the project’s GHG statement is reasonable.*

5.2 Verification Conclusion

It is TÜV SÜD South Asia Pvt. Ltd. opinion the GHG emission reduction stated in the monitoring report version 03 of 29/02/2024 for the “Bundled Wind Power Project in Gujarat and Tamil Nadu)” in Tamil Nadu and Gujarat, India for the period 01-August-2021 to 31-October-2022 are

fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology CDM Executive Board AMS-I.D 'Grid connected renewable electricity generation' version 18 and the monitoring plan contained in the registered VCS-PD. Hence TÜV SÜD South Asia Pvt. Ltd can certify that the emission reduction from the project during the

Verification period: From 01-August-2021 to 31-October-2022

Verified GHG emission reductions and carbon dioxide removals in the above verification period, broken down by calendar year:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU s (tCO ₂ e)	Removal VCU s (tCO ₂ e)	Total VCUs (tCO ₂ e)
01 – August-2021 To 31-December-2021	12,223	0	0	12,223	0	12,223
01-January-2022 To 31-October-2022	27,728	0	0	27,728	0	27,728
Total	39,951	0	0	39,951	0	39,951

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions/ removals	Achieved reductions/ removals	Percent difference	Explanation for the difference
01 – August-2021 To 31-December-2021	12,570	12,223	-3%	-
01-January-2022 To 31-October-2022	24,975	27,728	9.8%	Increase in ER is mainly due to higher net electricity supplied to grid as there was higher PLF achieved during this period. The reasons for higher PLF such as wind availability, grid

				availability which is not in the control of PP. The actual PLF achieved during this period is XX% where as the PLF considered for estimation of ERs in the registered PD and demonstrating financial additionality is XX%. PP had performed sensitivity analysis of +-10% on the estimated PLF to demonstrate the robustness of IRR and check breakeven point. The actual PLF is covered in this range and does not cross the breakeven point of XX% to cross the benchmark. Hence, higher PLF does not affect the additionality.
Total	37,545	39,951		

APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

Not Applicable

APPENDIX 2: CLARIFICATION REQUESTS, CORRECTIVE ACTION REQUESTS AND FORWARD ACTION REQUEST

Table 1. FAR from validation and/or previous verifications.

FAR ID	N/A	Section no.		Date: DD/MM/YYYY
Description of FAR				
No FAR from validation and/or previous verifications.				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
VVB assessment				Date: DD/MM/YYYY

Table 2 CL from this verification

CL ID	01	Section no.	2.2	Date: 29/01/2023
Description of CL				
Under section 2.2, PP need to provide supportive document for registering and resolving the public grievance.				
Project participant response				Date: 12/02/2024
As a part of on-going communication with local stakeholders, end users were informed about grievance register. Thus, ongoing communication of stakeholders was followed through grievance mechanism. If any concerns received during operation of project activity. Grievance registers of the project activity submitted to confirm the same.				
Documentation provided by project participant				
grievance register				
VVB assessment				Date: 15/02/2024

Local stakeholder and end user can register their grievances in the grievance register at the site and same has been verified by audit team during site visit as well as a copy of grievance register submitted by the project proponent to confirm the same. This issue is closed now.

CL ID	02	Section no.		Date: 29/01/2023
Description of CL				
PP need to provide MR in latest available template (V 4.3).				
Project participant response				Date: 12/02/2024
Now PP has updated the MR in latest version of MR (V 4.3)				
Documentation provided by project participant				
Updated MR version 02				
VVB assessment				Date: 15/02/2024
Latest MR template (V 4.3) has been used; thus, issue can be closed.				

CL ID	03	Section no.	1.10	Date: 29/01/2023
Description of CL				
In section 1.10, the goal indicators concerning with SDG 13 mentioned by PP is not in-line with defined SDG goals by United nations. PP is requested to revise the SDG table and provide the documents to supportive SDG 8 claim.				
Project participant response				Date: 12/02/2024
Now PP has updated the table in section 1.12 of SDG goals by United nations of the updated MR version 4.3 and submitted the supportive documents to SDG 8.				
Documentation provided by project participant				
Sample Salary slip				
VVB assessment				Date: 15/02/2024
PP has updated the table in section 1.12 of SDG goals by united nations of the updated MR version 4.3 and also submitted salary slip to confirm the SDG 8. This issue is closed now.				

CL ID	04	Section no.	1.11	Date: 29/01/2023
Description of CL				

In section 1.11, PP is requested to provide declaration that this project activity has neither been registered nor seeking registration under any other GHG programs for carbon credits.	
Project participant response	Date: 12/02/2024
Now PP provided the declaration that this project activity has neither been registered nor seeking registration under any other GHG programs for carbon credits.	
Documentation provided by project participant	
No double accounting declaration	
VVB assessment	Date: 15/02/2024
No double accounting declaration has been submitted by project proponent to confirm project activity has neither been registered nor seeking registration under any other GHG programs for carbon credits. This issue is closed now.	

Table 3 CAR from this verification

CAR ID	01	Section no.		Date: 29/01/2023
Description of CAR				
The information provided under project details is not in sequence. The subpoint from 1.9 to 1.11 are in shuffled in the Monitoring report. PP is requested to revise the MR and maintain the proper sequence mentioned in template.				
Project participant response				Date: 12/02/2024
Now PP has updated the information in section 1.11.3 and 1.12 as per latest version of MR 4.3				
Documentation provided by project participant				
Updated MR version 02				
VVB assessment				Date: 15/02/2024
All section of the revised MR in sequence as per latest MR template available at VCS. This issue is closed now.				

CAR ID	02	Section no.	4.2 of MR	Date: 29/01/2023
Description of CAR				
In section 4.2, it has been observed in MR that the value for EG _{PJ, Gujarat} is not in line with the ER sheet provided by PP. Hence, PP is requested to correct the value of aforementioned variable value and make in consistent in both MR and ER.				
Project participant response				Date: 12/02/2024

Now PP has corrected the value of EG _{PJ, Gujarat} as per updated ER sheet in section 4.2 of the updated MR version 02	
Documentation provided by project participant	
Updated MR version 02 and Updated ER sheet	
VVB assessment	Date: 15/02/2024
Value for EG _{PJ, Gujarat} is consistent in MR and updated ER sheet. This issue is closed now.	

CAR ID	03	Section no.	5.4 table 2 of MR	Date: 29/01/2023
Description of CAR				
It is noted in monitoring report that the percentage difference given in section 5.4, "Net GHG emission reduction and removals," does not match the value provided in the ER sheet. Therefore, PP is asked to in-line the value with the ER sheet. Additionally, it is noted that actual electricity generation is higher than estimated value. Therefore, PP shall provide the justification for the factors influencing/responsible for the difference values.				
Project participant response				Date: 09/02/2024
Now PP has corrected the value as per updated ER sheet however actual electricity generation is 5.94% high for current monitoring period than the estimated, the equity IRR after considering the current PLF in registered IRR sheet, is not breaching the benchmark value, also exceeded generation and PLF is within limit of +/-10% of the sensitivity analysis in additionality demonstration.				
Documentation provided by project participant				
Updated ER sheet				
VVB assessment				Date: 15/02/2024
Higher PLF was the reason behind increased electricity generation. It was already demonstrated in the sensitivity analysis table of the registered PDD that there is no impact on the additionality even if the PLF is remaining within +/- 10% of the value that has been considered during the validation. Since the actual electricity generation was 5.94% higher from estimated value so this will not impact the additionality of the project in the current monitoring period. This issue is closed now.				

CAR ID	04	Section no.	APPENDIX 1	Date: 29/01/2023
Description of CAR				

It is observed under Appendix 1 that the calibration validity of the below mention WTG meters are already expired. Hence PP is requested to provide the valid calibration certificates for the same.

Sr.No	WTG No.	Meter No	Make	Validity
1	SEL/2100/17- 18/4938	GJ- 3896- B	EDMI	29-Aug-22
2	SEL/2100/17- 18/4868	GJ- 3947-B	EDMI	29-Jul-22
3	T-62	TNW00877	Secure	29-Mar-22
4	T-48	TNW00762	Secure	29-Mar-22
5	T-49	TNW00755	Secure	29-Mar-22

Project participant response

Date: 12/02/2024

As per registered VCS PDD the energy meter calibration frequency is once in five year,

However, PP has applied the error factor 0.2s for delayed period in energy meter calibration.

WTG No.	Meter No.	Make	class	Calibration Date	Validity
T-62	TNW00877	Secure	0.2 s	31-Mar-17	30-Mar-22
T-48	TNW00762	Secure	0.2 s	30-Mar-17	29-Mar-22
T-49	TNW00755	Secure	0.2 s	30-Mar-17	29-Mar-22

In this monitoring the energy meter of T-48, T-49 and T-62 is delayed from march 2022. So PP has applied the error factor of 0.2s in that period to calculate the emission reduction.

Meter No.	Make	class	Calibration Date	Validity
GJ- 3896- B	EDMI	0.2 s	07-Aug-17	06-Aug-22
GJ- 3947-B	EDMI	0.2 s	30-Aug-17	29-Aug-22
GJ- 3893- B	EDMI	0.2 s	28-Feb-18	27-Feb-23

In this monitoring period the energy meter (GJ- 3896- B and GJ- 3947-B) calibration is delayed from August 2022. So PP has applied error factor 0.2s for that period to calculate the emission reduction.

Documentation provided by project participant

Updated ER sheet

VVB assessment

Date: 15/02/2024

Project proponent has no control over the calibration of the meters so PP has applied error factor 0.2s for the period where calibration delayed during monitoring period. This issue is closed,

APPENDIX 3: DOCUMENTS REVIEWED

NO.	TITLE	REFERENCE TO THE
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		DOCUMENT
1	CDM VVS for PA v2.0	-
2	Methodology ACM0002 Ver.18	-
3	VCS Standard v4.0	-
4	FINAL VCS PD	-
5	FINAL MONITORING REPORT	VERSION 02 - 12/02/2024
6	Revised Emission Calculation sheet version 02	VERSION 02 - 12/02/2024
7	Tools/ guidelines used in the project activity • Tool to determine the remaining lifetime of the project activity in line with Annex 15 EB 50 • Tool to calculate the emission factor for an electricity system • Glossary of CDM terms version 07 • VCS verification report template version 4.3	-
8	JMR records for the complete monitoring period	-
9	No Double Counting Declaration Undertaking	-
10	Commissioning Certificates for all the individual WTGs	-
11	Calibration certificate of all energy meters	-
12	O & M Agreement	-
13	Power Purchase Agreement	-
14	Grievance copy	12/02/2024
15	Training records	12/02/2024
16	Sample of salary slip	12/02/2024