



**Verified Carbon
Standard**

VERIFICATION REPORT

MRMPL WIND POWER PROJECT



South Asia

Document Prepared By

TÜV SÜD South Asia Pvt Ltd

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Client	Modern Road Makers Pvt. Ltd.
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Summary:

TÜV SÜD South Asia Pvt. Ltd. has performed the third verification of the 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 01/05/2018 to 31/03/2019.

The verification process includes three phases:

- Desk review of documents;
- Off-site audit and follow-up interviews with the relevant personnel;
- Resolution of outstanding issues and the issuance of final verification report and opinion.

The main purpose of this project activity is to generate clean form of electricity through renewable wind energy source.

The project involves the implementation of Wind Power Project in Jaisalmer, Rajasthan state of India by Modern Road Makers Pvt. Ltd.

The total installed capacity of the project is 20 MW. The purpose of the project is to produce power from clean source and to reduce the dependence on fossil fuels for energy requirements. Project proponent has signed a power purchase agreement (PPA) with “Jodhpur Vidyut Vitran Nigam Limited” (JVNL) to export the electricity to local grid.

The total GHG emission reductions or removals generated in this monitoring period are 21,792 tCO₂

The purpose and scope of this verification is to ensure that reported emission reductions are complete and accurate in accordance with applicable VCS standards and relevant UNFCCC requirements in order to be certified. A desk review and a remote site visit have been conducted to verify the data submitted in the monitoring report. VVB confirms the following has been reviewed:

- Validation report
- Approved methodology, ACM0002, version-10

- VCS standards version 4.1 and guidance version 4.0, as well as relevant UNFCCC requirements;
- All information and references relevant to the project activity's resulting in emission reductions.

2 Clarification Requests (CLs) and 2 Corrective Action Request (CAR) have been raised during verification process and has been successfully closed. No Forward Action Request (FAR) was raised during this monitoring period.

VVB confirms that the project is implemented in accordance with the registered PD. The monitoring plan complies with the applied methodology ACM0002 version 10.0 and the monitoring has been carried out in accordance with the monitoring plan in the registered PD. The monitoring system is in place and the emission reductions are calculated without material misstatements. The level of assurance of the verification is reasonable. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information reviewed and evaluated VVB confirms that the implementation of the project has resulted in 21,792 tCO₂e emission reductions during period 01/05/2018 to 31/03/2019/

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1 INTRODUCTION

1.1 Objective

TÜV SÜD has been commissioned by the 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 PD, and that all physical features (technology, project equipment, monitoring and metering equipment) of the project are in place,
- 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 verification is to assess the claims and assumptions made in the VCS monitoring report (MR) against the VCS criteria, including but not limited to, VCS standard, applied methodology and other relevant rules and requirements established for VCS project activities. The verification of this project was based on the registered project description & monitoring report and supporting documents submitted by the project proponent to the verification team. The documents were reviewed against the following guidance and protocols:

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 v4.1 requirements
- Clean Development Mechanism Validation and Verification Standard (VVS) for Project Activities v3.0
- 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 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. Its invoices follow the paper trail back to the raw data such as meter reading records and invoices. There are no material errors, overestimation of ER, omission, or misstatement. The verification team has reviewed all the documents like commissioning certificates, Joint Balance Sheet, invoices etc.

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 is the generation of electricity from wind power by installation of 16 Wind Turbine Generators (WTG) at Jaisalmer, Rajasthan. Each WTG has an installed capacity of 1.25 MW. The total installed capacity of the project is 20 MW. The purpose of the project is to produce power from clean source and to reduce the dependence on fossil fuels for energy requirements. Project proponent has signed a power purchase agreement (PPA) with “Jodhpur Vidyut Vitran Nigam Limited” (JVVNL) to export the electricity to local grid.

The project activity is located at villages Mudari, Ganesh ki Dhani, Dhava and Dedha in the district of Jaisalmer, Rajasthan. The nearest railway station and airport to reach the site is the town of Jaisalmer located approximately 30 kms from the project site. The coordinates of the WTGs have been tabled below:

Sr No.	Location No.	Latitude	Longitude
1	R060	N 260 48' 45.8"	E 700 44' 16.3"
2	R061	N 260 48' 36.8"	E 700 44' 26.1"

3	RO78	N 260 49' 15.4"	E 700 51' 35.4"
4	R007	N 260 48' 58.4"	E 700 51' 37.2"
5	R008	N 260 48' 41.7"	E 700 51' 39.4"
6	R063	N 260 48' 54.6"	E 700 43' 33.2"
7	R064	N 260 48' 45.1"	E 700 43' 43.5"
8	RO69	N 260 48' 36.8	E 700 43' 23.5"
9	R070	N 260 48' 27.3"	E 700 43' 33.8"
10	R071	N 260 48' 17.7"	E 700 43' 44.2"
11	R072	N 260 48' 08.2"	E 700 43' 54.5"
12	R073	N 260 47' 58.6"	E 700 44' 04.9"
13	R074	N 260 47' 49.1"	E 700 44' 15.2"
14	R016	N 260 49' 21.4"	E 700 49' 30.9"
15	R062	N 260 48' 25.3"	E 700 44' 37.1"
16	R067	N 260 48' 00.3"	E 700 44' 34.7"

The project activity has registered with the CDM, project ID-3839. PP has submitted an undertaking that they will not be claiming the credits from other GHG program than VCS for the same monitoring period..

The project sponsor is Modern Road Makers Pvt. Ltd. (herein referred to as MRMPL). It is a subsidiary of IRB Infrastructure Developers Limited (IRBIDL). It is involved in the construction, operation and maintenance of roads through various infrastructure projects in the road sector and is one of the major road developers in India.

The commissioning date is verified through the commissioning certificate. The verification team has also verified the latest photographs of all the equipment's (WTGs, inverters and transformers, energy meters) installed at site and monitoring system submitted by the project proponent & as well as above information regarding the project location. Based on the assessment of the documents, the assessment team is able to confirm that the project activity is fully functional and implemented as described in the registered VCS PD & MR.

During the Current Monitoring Period from 01/05/2018 to 31/03/2019 (First and last date included) the project activity has supplied 24,058 MWh of electricity, and thus contributing to the GHG reductions 21,792 tCO₂e.

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 v4.1, 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 an remote-site visit, 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 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.	Maane	Sagar	Modern Road Makers Pvt Ltd.	15/10/2021	Plant technology and monitoring	Shailendra Kewat
2	Bhati	Vikram Singh	Modern Road Makers Pvt Ltd.	15/10/2021	Plant technology and monitoring	Shailendra Kewat
3	Sharma	Nitya	Infinite Solutions	15/10/2021	Monitoring	Shailendra Kewat

2.4 Site Inspections

Please see 2.3

2.5 Resolution of Findings

CL from this verification CL from this verification

CL ID	01	Section no.	4.2	Date:	24/10/2021
Description of CL					
Following documents are need to be submitted:					
<ol style="list-style-type: none"> 1. Calibration records 2. Commissioning certificates 3. PPA 					
Project participant response					Date: 26/10/2021
Calibration records, commissioning certificates are submitted herewith.					
Documentation provided by project participant					

1. Calibration records 2. Commissioning certificates 3. PPA
DOE assessment Date: 08/11/2021
Requested documents are submitted. CL is closed

CL ID	02	Section no.	2.1	Date: 24/10/2021
Description of CL				
Provide the reference for this statement "There are no negative environmental and/or negative socio-economic impacts due to the project"				
Project participant response				Date: 26/10/2021
The reference for no negative environmental and/or negative socio-economic impacts due to the project has been added in the Revised MR Version 2.0				
Documentation provided by project participant				
Revised MR Version 2.0				
DOE assessment				Date: 08/11/2021
Revised MR received. CL is closed.				

CARs from this verification

CAR ID	01	Section no.		Date: 24/10/2021
Description of CAR				
Start and End of crediting period date does not match with the registered PDD.				
Project participant response				Date: 26/10/2021
The start date of crediting period is 01 May 2012 and end date of crediting period is 30 April 2022. This has been corrected in Revised MR Version 2.0				
Documentation provided by project participant				
Revised MR Version 2.0				
DOE assessment				Date: 08/11/2021
Revised MR received. CAR is closed.				

CAR ID	02	Section no.	1.8	Date: 24/10/2021
Description of CAR				
Version number of methodology and tools used are not in line with the registered PDD				
Project participant response				Date: 26/10/2021

ACM0002 Version 10.0 has been used in the registered PDD. The same has been made inline with the registered PDD in the revised MR Version 2.0	
Documentation provided by project participant	
Revised MR Version 2.0	
DOE assessment	Date: 08/11/2021
Revised MR received. CAR is closed	

2.5.1 Forward Action Requests

The project activity is undergoing the periodic verification. No FAR has been raised.

2.6 Eligibility for Validation Activities

Not applicable

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project is registered under CDM mechanism, project id 3839. Project Proponent has submitted undertaking that they will not claim same emission reductions of the project from CDM and VCS for the same monitoring period.

The project has undergone CDM verification till 30 Apr 2012, the current monitoring period is from 01 May 2018 to 31 Mar 2019. The Project Proponent has submitted undertaking for not availing other forms of environmental credit as well participation in other GHG programs for the same monitoring period under consideration

3.2 Methodology Deviations

Not Applicable

3.3 Project Description Deviations

There is no deviation with respect to the project activity during the current monitoring period.

3.4 Grouped Project

Not Applicable

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

The project activity involves installation of Wind power generation project in Jaisalmer, Rajasthan. It involves the installation of 16 units of model S-66 SUZLON make 1250 kW rating Wind Turbine Generators with a total installed capacity 20 MW.

Technology employed:

In wind energy generation, kinetic energy of wind is converted into mechanical energy and subsequently into electrical energy. Wind blowing at high speeds has a considerable amount of kinetic energy. When this kinetic energy passes through the blades of the wind turbines, it is converted into mechanical energy and rotates the wind blades. When the wind blades rotate, the connected shaft hence rotates, which is connected to a generator, thereby producing electricity. The technology is a clean technology since there are no GHG emissions associated with the electricity generation. Hence, the project activity has used an environmentally safe technology. In addition, there is no transfer of technology involved in this project activity.

The project activity is expected to export 36,199 MWh annually of electrical energy, throughout its entire life span of 20 years. The project activity does not involve any technology transfer. Technical lifetime of project activity is 20 years from the date of commissioning.

Monitoring parameters:

Means of verification	Referring to VCS v4 and p.360, p.361, p.363 and p.364 of CDM VVS PA, v3.0, the below tables provide a summary on the verification of each monitoring parameter listed in the registered monitoring plan.	
	Data / Parameter:	EG_y
	Data unit:	MWh
	Description:	Total electricity exported to grid
	Source of data used:	Credit notes from the state electricity utility
	Means of verification/Comments:	The difference of final value of export and import is used for monthly values of net electricity by the

	<p>project activity for captive consumption and same value will be considered for ER calculations.</p> <p>Verification team has checked the JMR/FORM-B to check net generation value and same has been cross verified with sales invoices raised by PP.</p> <table border="1"> <tr> <td>Cross-check</td> <td>Electricity Sales invoices submitted (as per wheeling & banking agreement provision)</td> </tr> </table>	Cross-check	Electricity Sales invoices submitted (as per wheeling & banking agreement provision)											
Cross-check	Electricity Sales invoices submitted (as per wheeling & banking agreement provision)													
Conclusion	<table border="1"> <tr> <td>Data / Parameter:</td> <td>EC_y</td> </tr> <tr> <td>Data unit:</td> <td>MWh</td> </tr> <tr> <td>Description:</td> <td>Total electricity import from grid</td> </tr> <tr> <td>Source of data used:</td> <td>Credit notes from the state electricity utility</td> </tr> <tr> <td>Means of verification/Comments:</td> <td>Verification team has checked the JMR/FORM-B to check import value and same has been cross verified with sales invoices raised by PP.</td> </tr> <tr> <td>Cross-check</td> <td>Electricity Sales invoices submitted (as per wheeling & banking agreement provision)</td> </tr> </table> <p>Compliance with the calibration frequency requirements for measuring instruments</p> <p>As per the registered monitoring plan, the meters are to be calibrated annually and same has been considered for this MP and confirmed by cross-checking the calibration records. The details of the calibration of meters are given in the table below.</p> <p>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, v3.0, 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.</p> <p>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.</p>	Data / Parameter:	EC_y	Data unit:	MWh	Description:	Total electricity import from grid	Source of data used:	Credit notes from the state electricity utility	Means of verification/Comments:	Verification team has checked the JMR/FORM-B to check import value and same has been cross verified with sales invoices raised by PP.	Cross-check	Electricity Sales invoices submitted (as per wheeling & banking agreement provision)	
Data / Parameter:	EC_y													
Data unit:	MWh													
Description:	Total electricity import from grid													
Source of data used:	Credit notes from the state electricity utility													
Means of verification/Comments:	Verification team has checked the JMR/FORM-B to check import value and same has been cross verified with sales invoices raised by PP.													
Cross-check	Electricity Sales invoices submitted (as per wheeling & banking agreement provision)													

	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, v3.0.
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Calibration of the meters

Equipment	Serial no	Accuracy	Make	Calibration date	Valid till
Main meter	RJB90212	0.2s	Secure	09/06/2017	08/06/2018
				09/06/2018	08/06/2019
Check meter	RJB90213	0.2s	Secure	09/06/2017	08/06/2018
				09/06/2018	08/06/2019

Due to meter failure, the energy meters have been replaced. Same has been cross verified with the meter change certificate dated 07/04/2017. Following are the details:

Details	Main meter	Check meter
Old Meter Number	RJB00316	RJB00317
New meter	RJB90212	RJB90213

Replacement has been occurred during the last monitoring period and duly calibrated meters has been replaced with old meters. Moreover, meters are calibrated annually as per the PPA and the monitoring plan.

Emissions trading programs and other binding 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. Audit team checked the REC Mechanism database of India and found that the project activity is not accredited / registered under REC mechanism. Further, Declaration in effect of the same has been submitted by project proponent to audit team and found to be correct.

The project has not been registered under any other GHG programs. Also, the Project is not rejected by other GHG programs. A declaration for the same is checked and found correct by the assessment team. Also assessment team checked the following registries to confirm the same. The details of the registries checked are as follows:

1. <https://www.recregistryindia.nic.in/>
2. <http://cdm.unfccc.int/>
3. <http://www.goldstandard.org/>

4. www.v-c-s.org

The Project has no intend to generate any other form of GHG-related environmental credit for GHG emission reductions or removals claimed under the VCS Program.

Thus, it is concluded that the project activity not involved on other Emissions trading programs and other binding limits.

Additional Information Relevant to the Project

Eligibility Criteria for grouped projects

This is not a grouped project activity. Thus, this section is not applicable for this project.

Leakage Management for AFOLU projects

Not applicable to the project activity.

Commercially Sensitive Information

No commercially sensitive information has been excluded from the public version of the project description. The details are presented transparently to the assessment team for analysis which leads to positive conclusion for this verification.

Sustainable Development

The project proponent has considered the sustainable development of the region due to the project activity Ministry of Environment and Forests, Govt. of India has stipulated the following indicators for sustainable development in the interim approval guidelines for CDM projects:

Social well-being: The project activity contributes towards local socio-economic development around its area of operation through provision of employment opportunities (direct and indirect) for local population.

Economic well-being: By providing employment opportunities, this project activity leads to development in the local economy. Through bringing in revenue to India through CDM process, it demonstrates how certain real and perceived financial barriers can be overcome for implementing clean energy measures.

Technological well-being: The successful implementation of the project activity will result in encouraging the use of cleaner technology. This will lead to replacement of the non-eco-friendly sources of power generation like thermal energy which are the major sources of power in the country

Environmental well-being: The project activity causes sustenance and improvement in regional air quality by avoiding commonly used fossil fuels for power generation. It thereby, also, results in maintenance of the ecosystem and human health due to avoidance in the use of GHG emissive fuels such as coal. It also leads to conservation of natural resources such as coal, oil etc.

Conclusion: In view of the assessment of MR and supporting documents as listed in Appendix 1 of this report, the validation team is able to confirm that the description contained in the MR of the project activity provides the reader with a clear understanding of the precise nature of the project activity and the technical aspects of its implementation. Consequently, assessment team confirms that the project description of the project contained in the MR to be complete and accurate. The MR complies with the relevant forms and guidance for completing the VCS MR.

4.2 Safeguards

4.2.1 No Net Harm

There are no negative environmental and/or negative socio-economic impacts due to the project. As the project activity does not involve any major construction activity. It primarily requires the installation of the WTGs, interfacing the generators with the State Electricity Board by setting up HT transmission lines and installation of other accessories.

The report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” prepared by MNRE dated September 2013. This report clearly mentioned that wind project activity operations do not result in direct air pollution, noise pollution. Please refer below web link for the same.

Thus there are no any significant impacts due to implementation of project activity on air, water, soil quality and ambience are envisaged due to the project activity. There were no socio-economic impacts identified from the project.

4.2.2 Local Stakeholder Consultation

Discussions with Local stakeholders is being carried out at periodic intervals. There are no negative comments received for the project.

4.3 AFOLU-Specific Safeguards

This section is not required.

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	<p>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:</p> <ol style="list-style-type: none"> 1. Export and Import data 2. Form-B 3. VER spreadsheets 4. Sales Invoices (as per Wheeling & Banking agreement)
Conclusion	<p>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.</p>

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

Means of verification	<p>The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the project activity. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan</p>
Conclusion	<p>Project emissions are zero as per the requirement of the methodology and registered CDM PDD.</p>

Calculation of leakage GHG emissions

Means of verification	<p>The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the project activity. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan</p>
Conclusion	<p>Leakage emissions are not applicable according to the applied methodology and registered CDM PDD</p>

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	<p>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,</p>
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	<p>emission factors and default values have been correctly justified. All the emission factors, 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.</p> <p>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.</p>
<p>Conclusion</p>	<p>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.</p> <p>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.</p> <p>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 3.0.</p>

4.6 Non-Permanence Risk Analysis

Not applicable.

5 VERIFICATION CONCLUSION

Our verification approach was based on the requirements as defined under the applicable VCS standards and relevant UNFCCC requirements. 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 implemented and operated as per the registered PD;
- the monitoring plan in registered PD is as per the applied methodology.
- the monitoring complies with the monitoring plan in the registered PD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS and CDM requirements.

- 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 GHG emission reductions are calculated without material misstatements.

VVB's verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. VVB planned and performed the verification by obtaining evidence and other information and explanations that VVB considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

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

Verification period: From 01/05/2018 to 31/03/2019

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)
2018 (01 May 2018 to 31 Dec 2018)	18,764	0	0	18,764
2019 (01 Jan 2019 to 31 Mar 2019)	3029	0	0	3029
Total	21,792	0	0	21,792

The estimated emission reduction achieved from the project activity for the current monitoring period is 32,788 tCO₂e, whereas actual emission reductions achieved are 21,792 tCO₂e, which is 27.63 % less than the estimated emission reductions. This is due to climatic conditions, hence acceptable.

APPENDIX 1: DOCUMENTS REVIEWED

No	Author	Title	References to the document
1	UNFCCC	CDM VVS for PA v3.0	
2	UNFCCC	ACM0002 – “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, Version 10	-
3	Verra	VCS Standard v4.1	-
4	Infinite Solutions	VCS MR – Version 5.0	28/03/2022
5	Infinite Solutions	ER Calculation sheet Version 3	21/01/2022
6	RRVNL, Jodhpur	Commissioning Certificates of WTGs	28/09/2008 12/01/2009
7	RRVNL	Calibration test certificates for main and check meters	27/06/2018
8	RRVNL, Jodhpur	Monthly credit notes for wind power plant	2018 and 2019
9	Modern Road Makers Pvt Ltd.	Monthly invoices for wind power plant	2018 and 2019
10	Modern Road Makers Pvt Ltd.	PPA	15/09/2008
11	Google Earth	GPS coordinates for wind plant	
12	Infinite Solutions	Site photographs of wind plant and energy meters	
13	UNFCCC	CDM PDD “MRMPL Wind Power Project”, version 6	14/06/2010
14	Infinite Solutions	Joint VCS-PD & MR, Version-2	23/07/2018
15	Modern Road Makers Pvt Ltd.	Declaration letter for No double counting	23/10/2021