



VCS VERIFICATION REPORT

WIND POWER PROJECT IN RAJASTHAN

MONITORING PERIOD:
19 JUNE 2011 TO 30 DECEMBER 2012

REPORT No:2013-0716

REVISION No. 01

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Summary:

DNV Climate Change Services AS (DNV) has performed the verification of the emission reductions reported for the “Wind power project in Rajasthan” for the period 19 June 2011 to 30 December 2012, to review and determine the monitored reductions in GHG emissions that have occurred as a result of the project activity. The project has previously been registered by the CDM Executive Board under CDM Ref 8591 and the current monitoring period covers the period pre-CDM registration.

The project activity was validated as CDM project by DNV Climate Change Services AS(DNV) (validation Report No: 2012-0581, revision 01 dated 5 December 2012) and it was registered as a CDM project on 13 December 2012 under the UNFCCC reference number 8591 with a 10-year fixed CDM crediting period from 31 December 2012 to 30 December 2022. As emission reductions occurred prior to the registration of the project as a CDM project activity, the emission reductions prior to the project's CDM registration cannot be claimed as Certified Emission Reductions (CERs). These emission reductions are thus claimed as Verified Carbon Units (VCU) under the Verified Carbon Standard (VCS) version 3.4. This is in accordance to the eminent VCS Guidance for projects that are registered in two GHG programs.

In addition, DNV has also carried out a validation of the project with regard to VCS requirements that apply to projects already registered under the CDM. DNV was able to confirm that the project is in compliance with the VCS requirements for validation of projects already registered under the CDM.

The verification was performed on the basis of VCS Programme Guide version 3.5 & VCS Standard version 3.4, as well as criteria given to provide for consistent project operations, monitoring and reporting. The verification was conducted by means of document review, follow-up interviews and site inspection, and the resolution of outstanding issues.

In our opinion, the GHG emission reductions reported for the project in the monitoring report (version 02) of 08 October 2013) are fairly stated. The GHG emission reductions were calculated correctly on the basis of approved methodology ACM0002 (version 12.3.0) and the monitoring plan contained in the VCS PD of 08 October 2013.

Hence, DNV Climate Change Services AS (DNV) is able to certify that the emission reductions from the “Wind power project in Rajasthan” during the period (19 June 2011 to 30 December 2012) amount to 91 118 tonnes CO₂ equivalent.

DNV does not assume any responsibility towards the issuance and utilization of the VCUs hereby verified and certified. Request for issuance of VCUs shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS Registration.

The verification of reported emission reductions is based on the information made available to DNV and the engagement conditions detailed in this report. DNV cannot be held liable by any party for decisions made or not made based on this report.

Abbreviations

BE	Baseline Emission
BM	Build Margin
CAR	Correction Action Request
CDM	Clean Development Mechanism
CEA	Central Electricity Authority
CL	Clarification Request
CM	Combined Margin
CMS	Central Monitoring Station
DISCOM	Distribution Company
DNV	DNV Climate Change Services AS
FAR	Forward Action Request
GHG	Greenhouse Gases
JMR	Joint Meter Reading
JVVNL	Jodhpur Vidyut Vitran Nigam Limited
kV	Kilo Volt
MEIL	Mytrah Energy (India) Limited
MoEF	Ministry of Environment and Forest
MP	Monitoring Plan
MR	Monitoring Report
NABL	National Accreditation Board for Testing and Calibration Laboratories
NEWNE	North East West and North-Eastern
OEM	Original Equipment Manufacturer
OM	Operating Margin
O & M	Operation and Maintenance
PD	Project Description
PDD	Project Design Document
PE	Project Emission
PPA	Power Purchase Agreement
QA/QC	Quality Assurance/Quality Control
SEB	State Electricity Board
SEL	Suzlon Energy Limited
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Verified Carbon Standard
VCSA	Verified Carbon Standard Association
VCU	Verified Carbon Units
VVS	VCS Validation and Verification Manual
WEGs	Wind Energy Generators

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1 INTRODUCTION

Mytrah Energy (India) Limited has commissioned DNV Climate Change Services AS (DNV) to carry out the verification and certification of verified emission reductions reported for the “Wind power project in Rajasthan” (the project) in the period 19 June 2011 to 30 December 2012. This report contains the findings from the validation and verification and includes a validation statement for the project and verification statement for the verified carbon units.

1.1 Objective

Verification is the periodic independent review and ex-post determination by an accredited verification body of the monitored reductions in GHG emissions that have occurred as a result of the registered VCS project activity during a defined verification period.

A verification statement is the written assurance by a verification body that, during a specific period in time, a project activity achieved the emission reductions as verified.

The objective of this verification was to verify and provide a verification statement of emission reductions reported for the “Wind power project in Rajasthan” for the period 19 June 2011 to 30 December 2012.

1.2 Scope and Criteria

The scope of the verification is:

- To verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan.
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emissions reduction data is free from material misstatement.
- To verify that reported GHG emissions data is sufficiently supported by evidence.

The criteria of the verification are:

- VCS Program Guide version 3.5 /27/
- VCS Standard version 3.4 and other relevant requirements defined by VCSA /26/.
- The approved methodology ACM0002 (version 12.3.0) /23/.

The verification shall ensure that reported emission reductions are complete and accurate in order to be verified /3/.

1.3 Level of assurance

The verification report expresses a conclusion with a reasonable level of assurance about whether the reported GHG emissions reduction data is free from material misstatement. DNV applied a materiality threshold of 5% with respect to omission or misstatements concerning reported quantities as per VCS standard /26/.

1.4 Summary Description of the Project

1.4.1 Method Project Category

According to the VCS Program Guide version 3.5 /27/ and the list of Sectoral Scopes of the UNFCCC /24/, the project is applicable under the following activity categories:

- Category 1 – Renewable energy (wind, PV, solar, thermal, biomass, liquid biofuels, geothermal, run-of-river hydro).

According to Annex A of the Kyoto Protocol, the project is applicable under the sectoral scope 1

- Energy Industries (renewable/ non-renewable sources).

1.4.2 Geographic Location

The project activity consists of installation of 20 Wind Energy Generators (WEGs) of the Suzlon S-88 make, with capacity of 2.1 MW each, with a total generation capacity of 42 MW /4/. The project is located in Tejwa-Mokal village of Jaisalmer district in the Rajasthan state of India. The location co-ordinates of the project activity (all 20 WEGs) are included in the VCS project description (PD) /2/.

1.4.3 Project Background

Title of the project activity: Wind power project in Rajasthan /34/.

Project Participant: Mytrah Energy (India) Limited authorized by Host Party India /34/.

Location of the project activity: Tejwa-Mokal village of Jaisalmer district in the Rajasthan state of India /34/.

VCU Verification period: 19 June 2011 to 30 December 2012 /1/.

VCS Project Crediting period: 19 June 2011 to 30 December 2012 /2/.

UNFCCC Refer. No: 8591 /34/.

CDM Baseline and monitoring Methodology: ACM0002, Version 12.3.0/23/.

CDM Crediting period: 31 December 2012 to 30 December 2022 (fixed crediting period) /34/.

CDM Project Starting date: 18 January 2011 (date of purchase order placed for the project activity) /21/.

VCS Project Start date: 19 June 2011 (date of commissioning of 1st WEG, pertaining to the project activity) /4/.

2 VALIDATION PROCESS, FINDINGS AND CONCLUSION

The Wind power project in Rajasthan has been registered as a CDM project activity (UNFCCC Reference Number: 8591) /34/. Therefore, DNV only performed validation for the project on the additional requirements by VCSA that were not already addressed as part of the CDM validation of the project. This validation was completed as part of the current VCU verification.

2.1 Validation Process

2.1.1 Method and Criteria

The validation consisted of the following three phases:

- I a desk review of the project design documents
- II follow-up interviews with project stakeholders
- III the resolution of outstanding issues and the issuance of the validation conclusion.

The following sections outline each step in more detail.

The criteria of the validation are:

- VCS Program Guide version 3.5 /27/.
- VCS Standard version 3.4 and other relevant requirements defined by VCSA /26/.
- The approved methodology ACM0002 (version 12.3.0) /23/.

The validation shall ensure that reported emission reductions are generated by a project that has been able to demonstrate its compliance with the VCSA requirements.

2.1.2 Document Review

The documentation was reviewed in combination with the verification activity for the project. Refer to details in Section 3.2.

2.1.3 Interviews

The interviews were performed in combination with the verification activity for the project. Refer to details in Section 3.3.

2.1.4 Site Inspections

The site inspection was performed in combination with the verification activity for the project. Refer to details in Section 3.4.

2.1.5 Resolution of Any Material Discrepancy

This activity was performed in combination with the verification activity for the project. Refer to details in Section 3.5.

2.2 Validation Findings

2.2.1 Gap Validation

As the project has been validated under the CDM, only the cover page and sections 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4 and 1.13 of the VCS Project Description Template shall be completed. DNV has undertaken a validation of same, as detailed below.

Cover page

DNV verified relevant information provided in the registered CDM-PDD /21/.

Project title: Wind power project in Rajasthan

Version: version 06

Date of issue: 20 November 2012

Prepared By: Mytrah Energy (India) Limited

Contact: Mytrah Energy (India) Limited, 8001, Q-City, S.No: 109, Nanakramguda, Gachibowli, Hyderabad
Andhra Pradesh- 500032

Sectoral Scope and Project Type

According to the “VCS Sectoral Scopes”, the project is applicable under the sectoral scope 1, Energy (renewable) /32/. The project is a grid-connected wind power project with the installed capacity of 42 MW /4/.

Project Proponent

Project Participant: Mytrah Energy (India) Limited /34/.

Project Start Date

The project started generating electricity on 19 June 2011 /4/ & /5/; therefore, the project start date for VCU issuance is identified as 19 June 2011 /4/. The CDM validation of the project was concluded on 5 December 2012 /22/, i.e. date of the CDM validation report by DNV Climate Change Services AS (DNV). Validation of the project was thus completed within two years of the project start date.

Project Crediting Period

The project crediting period for VCU issuance is determined as from 19 June 2011 to 30 December 2012 /1/.

Project Scale and Estimated GHG Emission Reductions or Removals

Project	Yes
Mega-project	NA

Years	Estimated GHG emission reductions or removals (tCO ₂ e)
Year 2011 (19/06/2011 to 31/12/2011, i.e. 196 days)	37 953
Year 2012 (01/01/2012 to 30/12/2012, i.e. 365 days)	70 677
Total estimated GHG ERs (in 561 days)	108 630

Annual emission reductions of 70 677 tCO₂e were estimated in the registered CDM-PDD/21/, from which figures in table above were calculated.

Project Location

Location of the project activity: Tejwa-Mokal village of Jaisalmer district in the Rajasthan state of India /4/.

Conditions Prior to Project Initiation

The project activity is the installation of a new grid-connected renewable wind energy based power project. The conditions prior to project initiation is that the equivalent electricity delivered to the grid by the project activity which would have otherwise been generated by the operation of grid connected power plants in the NEWNE regional grid of India /21/.

Proof of Title

Evidences of proof of title have been verified via documentation proving ownership of the wind power plant and equipment at the on-site visit, such as Certificate of Incorporation of the Company /6/ and the Letter of Approval issued by MoEF (DNA of India) /7/.

Emission Trading Programs and Other Binding Limits

The project is not included in an emissions trading program, and does not take place in a jurisdiction or sector in which binding limits are established on GHG emissions. The project does not reduce GHG emissions from activities that participate in an emissions trading program, so this clause is not applicable.

Participation under Other GHG Programs

The project has been registered as a CDM project on 13 December 2012 under the UNFCCC reference number 8591 /34/. The crediting period under CDM scheme is from 31 December 2012 to 30 December 2022 (fixed crediting period) /34/. The project activity was validated by DNV Climate Change Services AS (DNV) (validation Report No: 2012-0581, revision 01 dated 5 December 2012) /22/.

Other Forms of Environmental Credit

The project was registered as a CDM project activity on 13 December 2012 under the UNFCCC reference number 8591 /34/. The crediting period under CDM scheme is from 31 December 2012 to 30 December 2022 (fixed crediting period) /34/. The project has not been registered under any other GHG programs. The project neither has nor intends to generate any other form of GHG related environmental credits for GHG emission reductions or removals, 91 118 tCO₂e, achieved during the period from 19 June 2011 to 30 December 2012 claimed under the VCS Program /1/.

Additional Information Relevant to the Project

Eligibility Criteria

The project is not a grouped project, so this clause is not applicable.

Leakage Management

As per ACM0002 (version 12.3.0) /23/, no leakage emissions are considered. The main emissions potentially giving rise to leakage in the context of electric sector projects are emissions arising due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g. extraction, processing, and transport). These emissions sources are neglected. Hence this clause is not applicable.

Commercially Sensitive Information

It has been confirmed that there is no any commercially sensitive information excluded from the public version of the project description. Hence this clause is not applicable.

Further Information

As a wind energy project, the project activity will produce clean electricity using wind power resources and will generate GHG emission reductions by avoiding CO₂ emissions from electricity generation of fossil fuel fired power plants. Operation of this project does not lead to GHG emissions. It is confirmed that the project was not implemented to create GHG emissions primarily for the purpose of its subsequent removal or destruction /1/.

2.2.2 Methodology Deviations

The validation process has assessed all factors and issues that constitute the basis for emission reductions from the project according to the applicable large-scale CDM methodology ACM0002 (version 12.3.0)/23/. There was not any methodology deviation applied to this project.

2.2.3 Project Description Deviations

Not applicable.

2.2.4 New Project Activity Instances

The project was not a grouped project; hence this clause is not applicable.

2.3 Validation Conclusion

DNV is able to confirm the project is in compliance with the VCS requirements for validation /26/.

3 VERIFICATION PROCESS

3.1 Method and Criteria

The verification was performed through means of the following three phases in accordance with the requirement of the registered CDM PPD/21/, the applied methodology/23/, and the VCS Standard version 3.4 /26/ and other relevant VCS requirements /27/.

- A desk review of the monitoring report /1/ and all support documents /3/- /19/.
- Follow-up interviews with project stakeholders and site inspection.
- The resolution of outstanding issues and the issuance of the verification report and statement.

The following sections outline each step in more detail.

The verification of the emission reductions has assessed all factors and issues that constitute the basis for emission reductions from the project. These include:

- The emission reduction calculations /3/ and the relevant data records /4/ -/19/.
- The calibration and maintenance records for the monitoring instruments /8/.
- The management systems to support the project operation and monitoring.

Verification team

Role	Last Name	First Name	Country	Type of involvement					
				Desk review	Site visit	Reporting	Supervision of work	Technical review	TA 1.2 competence
Team leader (Validator & Verifier)	Srivastava	Gaurav	India	✓	✓	✓	✓		✓
Technical reviewer	Kakaraparthi	Venkata Raman	India					✓	✓

Duration of verification

Preparations: From 19 August 2013 to 26 August 2013
 On-site verification: On 29 August 2013
 Reporting, calculation checks and QA/QC: From 2 September 2013 to 17 October 2013

3.2 Document Review

The verification process includes the desk review of the VER/VCU monitoring report (version 1.0 dated 01 August 2013 and updated version 02 dated 8 October 2013) /1/, emission reduction calculation spreadsheet /3/ and other supporting documents and data /4/- /19/. Further, on-site assessments and interviews with those involved in project management and operation were conducted. This follows summarization of desk review and findings of on-site assessment (i.e. CARs, CLs, and FARs, refer to the Appendix A of this report). Upon successful closing of those findings raised, the final verification report is prepared based on the updated VER/VCU MR (version 02 dated 8 October 2013) /1/.

The following documents were assessed as a part of the verification audit:

- The VER/VCU Monitoring Report of version 1.0 dated 01 August 2013 and updated version 02 dated 8 October 2013 for the period from 19 June 2011 to 30 December 2012 /1/;
- Monthly Joint Meter Reading Records /9/, Monthly break up of net energy export units /5/, Monthly WEG tower wise electricity generation data /10/ and sales records of electricity exported and imported /11/ by the project activity during the period from 19 June 2011 to 30 December 2012.
- Calibration records of the electricity meters installed at Suzlon's pooling sub-station and Amarsagar sub-station (SEB sub-station) and feeder meters /8/.
- Operation and maintenance records of the WEGs /13/.
- Baseline and monitoring methodology ACM0002, version 12.3.0 23/.
- Relevant decisions, clarifications and guidance from the VCSA /26/-/32/;
- Emission reduction calculation spreadsheet for Wind power project in Rajasthan /1/, completed by Mytrah Energy (India) Limited. Emission reductions are calculated from the net amount of electricity supplied to the NEWNE regional grid of India multiplied by the ex-ante validated emission factor of the NEWNE regional grid of India determined during the CDM validation stage /21/.

In addition, the project's CDM Project Design Document (PDD) (version 06 dated 20 November 2012) /21/, in particular the monitoring plan included in the CDM PDD /21/, and the CDM validation report (revision 01 dated 5 December 2012) /22/ were also assessed.

During the document review, DNV has applied standard auditing techniques to assess the quality of information provided. The following activities were performed

- A review of the data and information presented to verify their completeness;
- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures; and
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

3.3 Interviews

On 29 August 2013, DNV visited the wind farm site located at Tejwa-Mokal village of Jaisalmer district in the Rajasthan state of India. The key personnel of the project were interviewed and the details given below:

Date	Name	Organisation	Short Description
29 August 2013	Mr. Anshu Yadav	Mytrah Energy (India) Limited	- Plant operations - Monitoring and measuring system - Collection and recording of data - Data archiving system - Calibration of energy meters - Operation and maintenance procedures - VCS monitoring and reporting documentation - Quality assurance and quality control - Training procedures
	Mr. Anil Patil		
	Mr. Chunnilal Legh		
	Mr. M.K. Gangwar	Suzlon Energy Limited	
	Mr. Sawai Singh		
	Mr. Krishan Kumar		
	Mr. Tejveer Singh		

3.4 Site Inspections

During the on-site inspection, DNV has applied standard auditing techniques to assess the quality of information provided. The following aspects of the project activity have been verified:

The implementation and operation of the project activity as described in the registered CDM PDD version 06 dated 20 November 2012 /21/ and VCS project description (PD) version 02 dated 8 October 2013 /2/;

- The information flow for generating, aggregating and reporting of the monitoring parameters; and
- The operational and data collection procedures are implemented in accordance with the monitoring plan in the registered CDM PDD version 06 dated 20 November 2012 /21/ and VCS project description (PD) version 02 dated 8 October 2013 /2/;

Further, the following activities were performed:

- A cross-check between information provided in the monitoring report and data from other sources /5/ & /11/.
- A check of the monitoring equipment including calibration performance /8/ and observations of monitoring practices against the requirements of the registered CDM PDD version 06 dated 20 November 2012 /21/, VCS project description (PD) version 02 dated 8 October 2013 /2/ and the selected methodology (ACM0002, version 12.3.0) /23/;
- A review of calculations and assumptions made in determining the GHG data and emission reductions /3/; and
- An identification that quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

The data presented in the updated monitoring report version 02 dated 8 October 2013 /1/ was assessed by review of the detailed project documentation and electricity generation records (like the JMRs /9/, monthly energy breakup report /5/), as well as by interviews with personnel of Mytrah Energy (India)

Limited at the project site, and observation of collection of measurements, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment /8/. This has enabled the verification team to assess the accuracy and completeness of reported monitoring results; to verify the correct application of the approved monitoring methodology and the determination of the emission reductions.

3.5 Resolution of Any Material Discrepancy

A corrective action request (CAR) is issued, where:

- i. Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
- ii. Mistakes have been made in applying assumptions, data or calculations of emission reductions which will impair the estimate of emission reductions;
- iii. Issues identified in a FAR during validation to be verified during verification have not been resolved by the project participants.

A clarification request (CL) shall be raised if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

A forward action request (FAR) is issued for actions if the monitoring and reporting require attention and/or adjustment for the next monitoring period.

The verification identified three (3) CARs and one (1) CL. No FAR has been issued during this verification. The CARs and CL were satisfactorily addressed by the Mytrah Energy (India) Limited (project participant) by revising the monitoring report and the emission reduction spread sheet (please refer to Appendix A for further details).

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

As part of the site visit DNV was able to confirm that the project implementation is in accordance with the project description contained in registered CDM PDD version 06 dated 20 November 2012 /21/ and VCS PD version 02 dated 8 October 2013 /2/, and that the monitoring has been carried out in accordance with the monitoring plan contained in the registered CDM PDD version 06 dated 20 November 2012 /21/ and VCS PD version 02 dated 8 October 2013 /2/.

The project is a wind farm plant developed by Mytrah Energy (India) Limited. The total installed capacity of the project is 42 MW, consisting of 20 Wind Energy Generators (WEGs) of the Suzlon S-88 make, with capacity of 2.1 MW each. The details of the Wind Energy Generators (WEGs) with respect to their numbers, type and capacity have been verified to be consistent with the details provided in the registered CDM PDD version 06 dated 20 November 2012 /21/ through the physical observation at project site and reviewing the commissioning certificates of the Wind Energy Generators (WEGs) /4/.

The project activity reduces GHG emissions by generating electricity from a newly built wind power project to supply the electricity to the NEWNE regional grid of India. The electricity generated from project activity is supplied to the NEWNE regional grid of India (which is dominated by fossil fuel-fired power plants)

under the power purchase agreement signed between the Mytrah Energy (India) Limited and Jodhpur Vidyut Vitran Nigam Limited /12/. The electricity with voltage level of 690 V generated by the Wind Energy Generators (WEGs) is stepped to 33 kV through on-site 33 kV transformers which is further stepped to 220 kV by on-site 220 kV transformer.

While the project activity is the installation of a newly grid-connected wind power plant, the project reduces GHG emissions by displacing equivalent electricity that would have been generated in the existing fossil fuel fired power plants or by the addition of new generation in the grid. The project's emission reductions are determined by multiplying the quantity of net electricity supplied by the project ($EG_{PJ,y}$) with an ex-ante fixed grid emission factor ($EF_{grid,CM,y}$) of 0.9529 tCO₂e/MWh /21/.

The CDM baseline and monitoring methodology applied is ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" version 12.3.0 /23/.

Quantity of net electricity exported to the grid during the year y ($EG_{PJ,y}$): This is a calculated parameter, calculated based on the difference between calculated values of "export" and calculated value "import" on the JVVNL energy meter at the common evacuation point and the percentage transmission loss as prescribed in the PPA (4%) for metering at 220 kV /21/. Detailed calculation procedure is defined in Annex 4 of the registered CDM PDD version 06 dated 20 November 2012 /21/. The calculated values of "export" and calculated value "import" on the JVVNL energy meter at the common evacuation point is provided by Suzlon Energy Limited (O & M contractor) in the form of monthly break of net energy export certificates /5/ whereas the transmission losses prescribed in PPA is 4% /12/. DNV has verified the monthly break of net energy export certificates and PPA and confirms that the values provided in monthly break of net energy export certificates and PPA are consistent with the values provided in VCU calculation sheet /3/ and VCS MR /1/ for the current verification period. Further DNV has cross checked the values provided in in monthly break of net energy export certificates /5/ and PPA /12/ with values provided in monthly electricity sales invoices /11/ raised to JVVNL by project proponent and confirms that the values provided are consistent. In order to arrive at Quantity of net electricity exported to the grid during the year y ($EG_{PJ,y}$) following energy meters were used.

Feeder Meters:

WEG	Feeder Number	Meter Number	Meter Make	Newly calibrated installed on	Calibration Due Date	Calibration Date	Next Calibration Due Date
MK 66	Fed no-10	RJB 72831	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
		RJB 72832	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
MK164 MK 165	Fed no-11	RJB 73524	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
		RJB 73525	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
MK67 MK68 MK69	Fed no-12	RJB 73521	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013

MK92 MK93 MK94		RJB 73522	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
MK14 MK15 MK16 MK17	Fed no-14	RJB 73571	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
		RJB 73572	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
MK39 MK40 MK42 MK43	Fed no-13	RJB 73569	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
		RJB 73570	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
MK 21	Fed no-17	RJB 74434	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
		RJB 74435	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
MK 161 MK 163	Fed no-16	RJB 74432	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013
		RJB 74433	Secure Meters Limited	19/06/2011	19/06/2012	16/03/2012	16/03/2013

Substation Meters:

Substation Meter Details	Substation Line Details	Meter Number	Meter Make	Newly calibrated installed on	Calibration Due Date	Calibration Date	Next Calibration Due Date
Amarsagar Substation Main Meter	SS Line 1	09166170	Larsen & Toubro	19/06/2011	19/06/2012	13/03/2012	13/03/2013
Amarsagar Substation Check Meter	SS Line 1	09166172	Larsen & Toubro	19/06/2011	19/06/2012	13/03/2012	13/03/2013
Amarsagar Substation Main Meter	SS Line 2	MSB 60428	Secure Meters Limited	19/06/2011	19/06/2012	13/03/2012	13/03/2013
Amarsagar Substation Check Meter	SS Line 2	MSB 60429	Secure Meters Limited	19/06/2011	19/06/2012	13/03/2012	13/03/2013

The monitoring procedures of electricity supplied to the grid were verified during the site visit and is found to be in accordance with the description contained in registered CDM PDD version 06 dated 20 November 2012 /21/. All the electricity meters used are of 0.2s accuracy class and the calibrations of the electricity meters installed at the substations and feeders (as illustrated in the VCS MR were verified during site visit), were carried out and assured by C & I systems /8/. The qualification of the entity performing the calibrations was verified from the website of National Accreditation Board for Testing and Calibration

Laboratories (authorized wing of Government of India to provide Accreditation for Testing and Calibration Laboratories) /14/.

The control system at the wind power plant is automated and assures continuous operation due to the availability of wind resource.

	Assessment/ Observation
Data / Parameter: (as in monitoring plan):	Quantity of Electricity generated by the individual WTGs of the PP in year y ($E_{WTG,i,y}$)
Measuring frequency:	Continuously by the controller meter installed within the WEG.
Reporting frequency:	Recorded online by the Suzlon Energy Limited (technology supplier) on daily basis in the form of daily generation report /10/.
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Type of monitoring equipment:	Microprocessor based controller meter /15/
Is accuracy of the monitoring equipment equal or more accurate as stated in monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the monitoring equipment represent good monitoring practise?	The controller meters are microprocessor based meters and operate based Woodward multifunction relays and hence accuracy class is not applicable for these meters /15/.
Calibration frequency /interval:	The controller meters are microprocessor based and do not require calibration as confirmed by the OEM /15/.
Is the calibration interval in line with the monitoring plan of the monitoring plan? If the monitoring plan does not specify the frequency of calibration, does the selected frequency represent good monitoring practise?	The controller meters are microprocessor based and do not require calibration as confirmed by the OEM /15/.
Company performing the calibration:	The controller meters are microprocessor based and do not require calibration as confirmed by the

	OEM /15/.
Did calibration confirm proper functioning of monitoring equipment? (Yes / No):	The controller meters are microprocessor based and do not require calibration as confirmed by the OEM /15/.
Is (are) calibration(s) valid for the whole reporting period? If the calibration does not cover the whole period please indicated how the project has revised its GHG calculations for the period that calibration was not valid.	The controller meters are microprocessor based and do not require calibration as confirmed by the OEM /15/.
If applicable, has the reported data been cross-checked with other available data?	The quantity of electricity generated by the individual WEG is cross-checked with the online tracking system provided by the SEL (technology supplier).
How were the values in the monitoring report verified?	WTG Controller meter reading recorded on daily basis in the form of daily generation report /10/.
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes Daily and monthly generation reports are monitored on regular basis by the VCS team. VCS team is responsible for data monitoring and Management.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	Not applicable

4.2 Accuracy of GHG Emission Reduction or Removal Calculations

DNV confirms that appropriate methods and formulae for calculating baseline emissions, project emissions and leakage have been followed, and the assumptions, emission factors and default values that are applied in the calculation have been justified.

As stated in the section B.6.3 of the registered CDM PDD /21/, the emission reductions E_{RY} by the project activity during the monitoring period is the difference between the baseline emission, project emissions and leakage.

$$ER_y = BE_y - PE_y - Ly$$

Baseline emissions

Baseline emissions (BE_y in tCO_2) are the product of the baseline emission factor ($EF_{grid,CM,y}$ in tCO_2/MWh) times the net electricity supplied by the project activity to the grid ($EG_{PJ,y}$ in MWh).

$EF_{grid,CM,y}$ is emission factor of the NEWNE regional grid of India, which was calculated *ex-ante* in registered CDM PDD and will not be updated during the fixed crediting period. $EF_{grid,CM,y}$ of the NEWNE regional grid of India is $0.9529 tCO_2/MWh$ /21/ as stated in registered CDM PDD, which has been verified to be correct, based on the availability of grid data /33/.

$EG_{PJ,y}$ is the net electricity generation supplied to the NEWNE regional grid of India by the project activity, which is calculated parameter, calculated based on the difference between calculated values of “export” and calculated value “import” on the JVVNL energy meter at the common evacuation point and the percentage transmission loss as prescribed in the PPA (4%) for metering at 220 kV /21/. Detailed calculation procedure is defined in Annex 4 of the registered CDM PDD version 06 dated 20 November 2012 /21/. The calculated values of “export” and calculated value “import” on the JVVNL energy meter at the common evacuation point is provided by Suzlon Energy Limited (O & M contractor) in the form of monthly break of net energy export certificates /5/ whereas the transmission losses prescribed in PPA is 4% /12/. DNV has verified the monthly break of net energy export certificates and PPA and confirms that the values provided in monthly break of net energy export certificates and PPA are consistent with the values provided in VCU calculation sheet /3/ and VCS MR /1/ for the current verification period. Further DNV has cross checked the values provided in in monthly break of net energy export certificates /5/ and PPA /12/ with values provided in monthly electricity sales invoices /11/ raised to JVVNL by project proponent and confirms that the values provided are consistent.

Hence,

$$EG_{PJ,y} = 95\,622.1864 \text{ MWh, and}$$

$$BE_y = EF_y * EG_y = 91\,118 tCO_2e$$

Period	Net electricity generation supplied to the NEWNE regional grid of India (in MWh)	GHG Emission Reductions in tCO_2 (VCUs)
19 June 2011 to 31 December 2011	22 116.25	21 074
01 January 2012 to 30 December 2012	73506	70 044
19 June 2011 to 30 December 2012	95 622.1864	91 118

Project emissions

The project emissions are regarded as zero according to the methodology ACM0002 /23/.

Leakage

There are no leakages that need to be considered in applying the methodology ACM0002 /23/.

GHG Emission reductions

Therefore, the GHG emission reductions in this monitoring period are:

$$ER_y = BE_y - PE_y - Ly = 91\,118 - 0 - 0 = 91\,118 tCO_2e.$$

The expected annual emission reductions in the VCS PDD is 70 677 tCO₂e, which corresponds to 108 630 tCO₂e in 562 days. Hence, actual emission reductions achieved during the current verification period (19 June 2011 to 30 December 2012) is (-) 16.12% lower than expected. The variation is deemed to be within a reasonable range due to downtimes of WEGs and same has been checked by DNV based on the generation details of WEGs and the O&M details of WEGs /13/. It has been confirmed by DNV that the maximum output capacity has not been exceeded on any given month during the current monitoring period.

As outlined above, the input data for calculating the emission reductions, the calculating process and the result are complete and transparent. Therefore, DNV is able to confirm the accuracy of the emission reductions.

4.3 Quality of Evidence to Determine GHG Emission Reductions or Removals

DNV confirms that a complete set of data for this monitoring period was available to be verified and was in accordance with the registered CDM PDD version 06 dated 20 November 2012 /21/. All necessary documentation were collected, referenced and aggregated and were easily accessible in hard-copy and electronic format. Measurements are performed by calibrated equipment, and the key data were cross-checked via other sources. No assumptions are used that have any material influence on reported emission reductions.

4.4 Management and Operational System

Suzlon Energy Limited is responsible for the operation and maintenance of the project, the monitoring equipment and data collection. The management system for the project has been verified to be in place by DNV on site. The organization structure with the responsibilities, personnel competencies, monitoring procedure and monitoring management have been properly identified and put into operation. DNV confirms that the responsibilities and authorities in the management and operational system for monitoring and reporting are in accordance with registered CDM PDD version 06 dated 20 November 2012 /21/.

5 VERIFICATION CONCLUSION

DNV Climate Change Services AS (DNV) has performed the verification of the emission reductions that have been reported for the “Wind power project in Rajasthan” (UNFCCC Registration No.8591) for the period 19 June 2011 to 30 December 2012.

In addition, DNV has also carried out a validation of the project with regard to VCS requirements that apply to projects already registered under the CDM. DNV was able to confirm that the project is in compliance with the VCS requirements for validation of projects already registered under the CDM.

The project participants are responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project.

It is DNV’s responsibility to express an independent verification statement on the reported GHG emission reductions from the project.

DNV conducted the verification on the basis of the approved methodology ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” (version 12.3.0), the monitoring plan contained in the registered CDM PDD version 06 dated 20 November 2012 and the monitoring report (version 02) dated 08 October 2013. The verification included i) checking whether the provisions of the monitoring methodology and the monitoring plan were consistently and appropriately applied and ii) the collection of evidence supporting the reported data.

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

In our opinion the GHG emissions reductions of the “Wind power project in Rajasthan” (UNFCCC Registration No.8591) for the period 19 June 2011 to 30 December 2012 are fairly stated in the monitoring report (version 02) dated 08 October 2013.

The GHG emission reductions were calculated correctly on the basis of the approved methodology ACM0002 (version 12.3.0) and the monitoring plan contained in the registered CDM PDD version 06 dated 20 November 2012.

DNV Climate Change Services AS is able to certify that the emission reductions from the “Wind power project in Rajasthan” during the period 19 June 2011 to 30 December 2012 amount to 91 118 tonnes of CO₂ equivalent, detailed as below.

Reporting period: 19 June 2011 to 30 December 2012

Verified GHG emission reductions or removals in the above reporting period:

GHG Emission Reductions or Removals	tCO ₂ e
Baseline Emissions	91 118
Project Emissions	0
Leakage	0
Net GHG emission reductions or removals	91 118

DNV does not assume any responsibility towards the issuance and utilization of the VCUs hereby verified and certified. Request for issuance of VCUs shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS Registration.

The verification of reported emission reductions is based on the information made available to DNV and the engagement conditions detailed in this report. DNV cannot be held liable by any party for decisions made or not made based on this report.

6 REFERENCES

Documents provided by the Project Participants that relate directly to the GHG components of the project. These have been used as direct sources of evidence for the periodic verification conclusions, and are usually further checked through interviews with key personnel.

/1/	MEIL: VER/VCU Monitoring Report for VCS verification of project activity 8591 "Wind power project in Rajasthan" in India, version 1.0 dated 01 August 2013 and updated version 02 dated 8 October 2013.
/2/	MEIL: VCS PD of project activity 8591 "Wind power project in Rajasthan" in India, version 1.0 dated 01 August 2013 and updated version 02 dated 8 October 2013.
/3/	MEIL: VER/VCU Emission Reduction Spread sheet for VCS verification of project activity 8591 "Wind power project in Rajasthan" in India, version 1.0 dated 01 August 2013 and updated version 02 dated 8 October 2013.
/4/	Jodhpur Discom: Commissioning certificates for the 20 WEGs under the project activity dated 19 June 2011, 25 June 2011, 30 June 2011, 12 July 2011 19 July 2011 and 04 August 2011.
/5/	SEL: Monthly energy breakup report for the verification period covering the details from the day of commissioning till 31 December 2012.
/6/	Ministry of Corporate Affairs: Fresh Certificate of incorporation consequent upon name change of the project developer from Caparo Energy (India) Limited to Mytrah Energy (India) Limited dated 27 September 2011.
/7/	MoEF (DNA of India): Letter of Approval dated 11 October 2012.
/8/	C & I systems: Calibration conducted for all the energy meters (main and check meters) installed at substation and feeders, covering the current verification period from 19 June 2011 to 30 December 2012.
/9/	JVVNL: Joint meter reading records for the period from 19 June 2011 to 31 December 2012.
/10/	SEL: daily and monthly tower wise electricity generation records for the period from 19 June 2011 to 31 December 2012.
/11/	MEIL: Electricity sales invoices raised to Jodhpur Discom for the period from 19 June 2011 to 31 December 2012.
/12/	JVVNL: Power purchase agreement signed between JVNL and MEIL for the project activity dated 14 June 2011.
/13/	SEL: Operation and maintenance records of all the WEGs for the period from 19 June 2011 to 31 December 2012.
/14/	NABL: website of National Accreditation Board for Testing and Calibration Laboratories (authorized wing of Government of India to provide Accreditation for Testing and Calibration Laboratories) used to check qualification of the entity performing the calibrations. http://www.nabl-india.org/nabl/index.php?c=search&m=index&Itemid=177
/15/	SEL: Letter from the OEM confirming the non requirement of calibration for WEG controller meters dated 8 October 2012.
/16/	RRVNL: Grid Interconnection approval for the project activity dated 16 June 2011.
/17/	SEL: Technical specifications of Suzlon S-88 make 2.1 MW capacity WEGs.
/18/	Secure meter: Technical specifications of metering manual of enhanced premier electricity meters.
/19/	MEIL: Purchase orders for WEGs placed to SEL dated 18 January 2011 and purchase order amendments dated 20 February 2011.

Background documents related to the design and/or methodologies employed in the design or other reference documents.

/20/	CDM Executive Board: Validation and Verification Standard version 05.0.
/21/	MEIL: Registered CDM-PDD for project activity 8591 "Wind power project in Rajasthan" in India, version 6.0 of 20 November 2012.
/22/	DNV: Validation Report for project activity 8591 "Wind power project in Rajasthan" Report No: 2012-0581, revision 01 dated 5 December 2012.
/23/	CDM Executive Board: Baseline and monitoring methodology ACM0002, version 12.3.0, "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"
/24/	CDM Executive Board: Sectoral scopes related to approved methodologies and DOEs http://cdm.unfccc.int/DOE/scopes.html
/25/	CDM Executive Board: "Tool to calculate emission factor for an electricity system", version 02.2.1.
/26/	Verified Carbon Standard – VCS Standard: VCS version 3.4, dated 08 October 2013.
/27/	Verified Carbon Standard – VCS Program Guide: VCS version 3.5, dated 08 October 2013.
/28/	Verified Carbon Standard – Registration and Issuance Process: VCS version 3.5, 08 October 2013.
/29/	Verified Carbon Standard: Validation and Verification Manual Version 03, 04 October 2012.
/30/	Verified Carbon Standard – VCS Monitoring Report Template, version 3.2
/31/	Verified Carbon Standard – VCS Verification Report Template, version 3.2
/32/	Verified Carbon Standard – VCS Sectoral Scopes, http://v-c-s.org/node/448
/33/	CEA: CO2 Baseline Database for Indian Power Sector -User Guide, version 7 dated January 2012 published by CEA. http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm
/34/	UNFCCC: Registration details for project activity 8591 "Wind power project in Rajasthan" http://cdm.unfccc.int/Projects/DB/DNV-CUK1354785555.66/view

APPENDIX A

CORRECTIVE ACTION REQUESTS, CLARIFICATION REQUESTS AND FORWARD ACTION REQUESTS

Corrective action requests

CAR ID	Corrective action request	Response by Project Participants	DNV's assessment of response by Project Participants
CAR 1	Single line diagram provided in VCS-MR does not capture information about all the feeders and meters located at SEL pooling stations, used to monitor the electricity exported and imported to/from grid by the project activity.	The detailed Single line diagram has now been included in the updated MR version 02 dated 08 October 2013.	DNV has reviewed the revised MR version 02 dated 08 October 2013 /1/ and confirms that the single line diagram included in revised MR version 02 dated 08 October 2013 /1/ reflects all the feeder and meters located at SEL pooling stations, used to monitor the electricity exported and imported to/from grid by the project activity. OK Accepted. CAR 1 is Closed.
CAR 2	Calibration details of all the feeder meters installed at SEL pooling stations are not provided in VCS-MR	The calibration details of all the feeder meters have now been included in the updated MR version 02 dated 08 October 2013.	DNV has reviewed the revised MR version 02 dated 08 October 2013 /1/ and confirms that the calibration details of all the feeder meters are now been included in the revised MR version 02 dated 08 October 2013 /1/. OK Accepted. CAR 2 is Closed.

CAR ID	Corrective action request	Response by Project Participants	DNV's assessment of response by Project Participants
CAR 3	Project proponent needs to address the followings; • The spread sheet submitted to calculate emission reductions does not contain the values of all monitored parameters required by the monitoring plan for the project activity such as EWTG,i, y (Quantity of Electricity generated by the individual WTGs of the PP in year y) and monthly net electricity export figures after considering transmission losses • Clear reference of emission factor of NEWNE regional grid of India etc.	The emission reduction spread sheet has now been updated in order to reflect information on all the parameters required by the monitoring plan of the registered CDM PDD. Clear reference of emission factor of NEWNE regional grid of India is now included in emission reduction spread sheet.	Project proponents has revised the GHG emission reduction spreadsheet /3/ and in revised GHG emission reduction spreadsheet /3/ information on all the parameters (including Quantity of Electricity generated by the individual WTGs of the PP in year y) and monthly net electricity export figures after considering transmission losses) required by the monitoring plan of the registered CDM PDD /21/ are now transparently covered. Clear reference of emission factor of NEWNE regional grid of India is now included in revised MR /1/. Revised GHG emission reduction spreadsheet has been reviewed by DNV /3/. OK Accepted. CAR 3 is Closed.

Clarification requests

CAR ID	Corrective action request	Response by Project Participants	DNV's assessment of response by Project Participants
CL 1	Project proponent needs to clarify that how the net electricity exported to the grid by the project activity for the month of December 2012 has been arrived at as it was observed during desk review that the energy break report and invoice for the month of December covers net electricity exported figures from 01 December 2012 to 31 December 2012 whereas the VCS monitoring period ends on 30 December 2012.	The net electricity exported to grid by individual machine on 31 st December 2012 is sourced from daily generation report prepared based on controller panel meter readings of the individual WEG and recorded by Suzlon Energy Limited and details of the same is now incorporated in revised GHG emission reduction spread sheet. The net electricity exported to grid by individual machine on 31 st December 2012 is deducted from the net electricity exported figures from 01 December 2012 to 31 December 2012 to arrive at the net electricity exported to grid figures for the period from 01 December 2012 to 30 December 2012.	The net electricity exported to grid by individual machine on 31st December 2012 is deducted from the net electricity exported figures from 01 December 2012 to 31 December 2012 to arrive at the net electricity exported to grid figures for the period from 01 December 2012 to 30 December 2012. The net electricity exported to grid by individual machine on 31st December 2012 used for GHG emission reduction calculation is sourced from daily generation report prepared based on controller panel meter readings of the individual WEG and recorded by Suzlon Energy Limited (O & M contractor for the wind farm) and details of the same is now incorporated in revised GHG emission reduction spread sheet. Revised GHG emission reduction spreadsheet has been reviewed by DNV. OK Accepted. CL 1 is Closed.

Forward action requests from previous verification

FAR ID	Forward action request	Summary of how FAR has been addressed in this reporting period	Assessment of how FAR has been addressed
FAR 1	Not Applicable		

Forward action requests from this verification

FAR ID	Forward action request	Response by Project Participants	DNV's assessment of response by Project Participants
FAR 1	Not Applicable		