



WIND POWER PROJECT IN RAJASTHAN



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Summary:

- **Verification purpose:** : LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed/2/ by “Mytrah Energy (India) Limited” to perform 4th verification (01-June-2021 to 18-June-2021) of the “Wind power project in Rajasthan (VCS ID 1195). The main purpose of this verification activity is to have an independent third party for the assessment of the project design, monitoring report to ensure a thorough assessment of the proposed project activity against the applicable VCS requirements.
- The project is undertaken by “Mytrah Energy (India) Limited (MEIL)”. The project activity envisages implementation of Wind power project in Rajasthan, state of India. The project activity supports the development of new grid-connected renewable energy power plants in India and cover the wind energy technologies..
- The start date of the project activity is 19-June-2011. This is the date of commissioning of first WTG of this project activity. An undertaking has been submitted by PP for double counting confirming that no GHG reduction will be claimed in any other GHG mechanism for current monitoring period.
- This is the 4th monitoring report under VCS covers activity from 01-June-2021 to 18-June-2021 (inclusive both days). During the Current Monitoring Period the GHG emission reductions calculated are 6,274 tCO₂.
- The project is registered under Clean Development Mechanism (CDM) of UNFCCC with 10 years crediting period (Reference No: 8591) on 13th Dec 2012. Crediting period of the project under CDM starts on 31st December 2012 and ends on 30th December 2022.
- The project has begun generating GHG emission reductions from 19th June 2011. Hence, crediting period for VCS begins on 19th June 2011 and ends on 18th June 2021 considering 10 years fixed crediting period.
- A risk-based approach has been followed to perform this verification activity. In the course of verification, 05 Corrective Action requests (CAR), 00 Clarification Requests (CLs) and 00

Forward action requests (FARs) were raised and successfully closed. The review of the Monitoring report and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and PP have provided VVB with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

- LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred to as Applus+ Certification) has been appointed by “Mytrah Energy (India) Limited (MEIL)” under VCS standard 4.1 and VCS Program guide version 4. The objective of this verification activity is to have an independent third party for the assessment of the project design, monitoring report and Final Verification report and to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements. In particular; the project's baseline is assessed against applied methodologies “ACM0002 (version 12.3.0) - Consolidated baseline methodology for grid-connected electricity generation from renewable sources. The project’s compliance with the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS program guide, version 4.2 and VCS standard, version 4.3
- • CDM Validation and Verification Standard for project activities, version 03.0
- • CDM Project Standard for project activities, version 03.0
- • VCS standard version 4.3
- • VCS program guide version 4.2
- Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified carbon units (VCUs).
- The scope of the verification is the independent and objective review of the monitoring report (MR). The MR is reviewed against the relevant criteria (see above) and decisions by the CDM Executive Board and VCS executive board, including the approved baseline and monitoring methodology. The verification was based on the guidance given in the CDM Validation and Verification Standard for the project activities, version 03.0, review against registered VCS-PD and Final Validation report, CDM Project Standard for project activities, version 03.0 and VCS program guide, version 4.2 and VCS standard, version 4.3.
- The assessment team has employed a risk-based approach to assess the completeness and accuracy of the claims and conservativeness of the assumptions in the MR. The main focus of the assessment team is to identify the significant risks for the project implementation and the generation of VERs. The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring report combined.
- The only purpose of the verification is its usage during the issuance process as part of the VCS project cycle. Therefore, LGAI Technological Center S.A. (Applus+ Certification) can't be held

liable by any party for decisions made or not made based on the verification opinion, which will go beyond that purpose.

- *The verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. No sampling procedure applied for on-site audit or document verifications. The entire documents checked/plant verification conducted to arrive at positive verification conclusions.*

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1 INTRODUCTION

1.1 Objective

LGAI Technological Center S.A. (Hereinafter referred as Applus+ Certification) has been appointed by “Mytrah Energy (India) Limited (MEIL)” to perform the 4th verification of the project entitled “Wind power project in Rajasthan” under VCS standard version 4.1 and program guide version 4. The objective of this verification activity is to have an independent third party for the assessment of the project design, monitoring report and final verification report and to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements. In particular;

The project's baseline plan is assessed against applied methodologies – ACM0002 (version 12.3.0) “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”.

The project's compliance with the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS program guide, version 4-2 and standard version 4.3.

CDM Validation and Verification Standard for project activities, version 03.0

CDM Project Standard for project activities, version 03.0

Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of estimated verified carbon units (VCUs).

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR) prepared as per the registered VCS-PD and registered approved methodologies ACM0002 version 12.3.0. The MR is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board and VCS standard, version 4.3 and VCS Program guide version 4.2, including the approved baseline and monitoring methodologies applied. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 03.0, CDM Project Standard for project activities, version 03.0, version 03.0 and VCS program guide, version 4.2 and standard version 4.3.

The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the Monitoring report. In line with Guidelines for Application of materiality in verifications, the verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction calculation spread sheet. There are no material errors, overestimation of ER, omission or misstatement. The verification team has reviewed all the documents like commissioning certificate, Energy generation records, fuel records etc.

1.3 Level of Assurance

The verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. The entire documents checked/Power plant verification conducted to arrive at positive verification conclusions.

1.4 Summary Description of the Project

The project undertaken by Mytrah Energy (India) Limited (MEIL), has set up 42 MW wind power project in Jaisalmer District in the state of Rajasthan. The project activity comprises of 20 Wind Energy Generators (WTGs) with a capacity of 2.1 MW each.

The Project activity is a zero-emissions wind based power generation project connected to NEWNE regional grid of India (Now INDIAN grid)¹. The project helps to reduce the supply demand gap in the state and also generates power using zero emissions wind-based power generation which helps to reduce GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.

During the Current Monitoring Period from 01-June-2021 to 18-June-2021 (Inclusive of both the dates) the project activity is contributing in the GHG reductions of 6,274 tCO_{2e}.

2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification Process

The project assessment is based on the Clean Development Mechanism Validation and Verification Standard for project activities, version 03.0 and VCS standard 4.3 and VCS program

¹ https://www.cea.nic.in/wp-content/uploads/tpe_cc/2022/02/User_Guide__ver_17_2021.pdf

guide, version 4.2 and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the VCS project activity are appointed.

Once the project is received by the assessment team, the members of the assessment team carried out:

1. A desk review of the monitoring Report against the registered PD;
2. Follow-up interviews with project participant;
3. The resolution of outstanding issues and the issuance of the final verification report and opinion.

The prepared verification report and other supporting documents then undergo an internal quality control at the HQ (Accredited office) before being submitted to the VCS executive board.

In order to ensure transparency, assumptions must be clear and stated explicitly and background material must also be referenced. LGAI Technological Center, S.A. (Applus+ Certification) has developed a specific checklist customized for the project. The checklist demonstrates, in a transparent manner, the project criteria (requirements), discussion on each criterion by the assessment team, and the results from verifying the identified criteria.

Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, LGAI Technological Center S.A. (Applus+ Certification) has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of LGAI Technological Center S.A. (Applus+ Certification).

The composition of audit team shall be approved by the LGAI Technological Center S.A. (Applus+ Certification) ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT)
- Technical Expert (TE)
- Technical Reviewer (TR)

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Pankaj Kumar	LA/TE	YES	YES	NA	YES
Srikanth Meesa	TR	YES	YES	NA	YES

The complete list of CVs is included as Appendix 3 of this report.

Document review

The Monitoring Report version 01 submitted by the PP was reviewed against the approved methodology, registered PDD, final validation report and other relevant criteria to verify the correctness, credibility, and interpretation of the presented information. Furthermore, a cross-check between information provided and information from other sources has been done. A complete list of all documents and evidence material reviewed is included in this report below in appendix 1.

Remote Audit and Follow-up interviews

A remote audit was conducted by LGAI Technological Center S.A. (Applus+ Certification) and performed interviews through video conferencing with project stakeholders to confirm selected information and to resolve issues identified in the document review. The detail is provided in this report in the below sections.

Resolution of Clarification and Corrective Action Request

The objective of this phase of the Verification was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for Applus+ Certification positive conclusion on the Monitoring report. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the verification process, the concerns raised and responses given are summarized below in the Appendix 2.

The final MR Version 02 submitted by PP on 07-July-2022 serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Internal quality control

As final step of a verification of the final documentation including the final verification report and the checklist have to undergo an internal quality control by the technical review committee, i.e., each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one to avoid any conflict of Interest.

After confirmation of the project owners, the positive verification opinion and relevant documents are submitted to the VCS secretariat through the VCS web-platform.

2.2 Document Review

The details of the document observed during the verification process are listed below in appendix 1 of this report.

2.3 Interviews

A remote audit was conducted for the project activity on 05-July-2022.

Technical details & metering/monitoring arrangement verified through remote audit interviews and photographs/name plates and calibration certificates shared by PP. All the documents were cross checked to ensure conservative estimation of emission reduction.

During remote audit, the PP representatives were questioned about the implementation of the project activity. Several topics like the verification of commissioning date of equipments, generation records, and monitoring of the data and the error accountability were discussed. To cross check the information provided by PP, various documents like technical specifications, commissioning certificates, PPA, Plant records, Energy Generation Record sheets, invoice, calibration certificates etc. were also verified. The names of the persons interviewed during video conferencing remote audit is given below;

Organization	Name of Persons/Designation	Topics discussed	Team Member
Mytrah Energy (India) Limited (MEIL)	Mr. Vikram Kailash	Project Implementation, JMR & invoicing procedure, calibration, grievance mechanism, Management practices, data storage, QA/QC, GHG calculations, MR and ER preparation,	Pankaj Kumar

Organization	Name of Persons/Designation	Topics discussed	Team Member
Mytrah Energy (India) Limited	Mr. Ramesh Kure	Data collection	
Mytrah Energy (India) Limited (MEIL)	Mr. Murugesan P		
Infinite Environmental Solutions LLP	Mr. Jimmy Shah		

2.4 Site Inspections

Remote Audit: 05-July-2022				
No.	Activity performed (remote audit)	Site location	Date	Team member
1.	Assessment team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring. Assessment team also checked that whether the monitoring plan as described in the VCS PD is actually practised onsite. Also, assessment team checked any change in host country criteria which may affect the baseline of the project activity.	Tejwa – Mokal village, Jaisalmer District, Rajasthan State, India.	05-July-2022	Pankaj Kumar

2.5 Resolution of Findings

The objective of this phase of the verification was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for LGAI Technological Center S.A. (Applus+ Certification)'s positive conclusion on the project design and Monitoring report. The Corrective Action Requests and Clarification Requests raised by LGAI Technological Center S.A. (Applus+ Certification) were resolved during communications between

the Client and LGAI Technological Center S.A. (Applus+ Certification) to guarantee the transparency of the validation process, the concerns raised and responses given are summarized below in the appendix 2.

The final MR Version 02 submitted by project owners on 07-July-2022 serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Project design document and Monitoring report	00	00	00
Description of project activity	00	00	00
Application of selected baseline and monitoring methodology and selected standardized baseline			
- Applicability of methodology and standardized baseline	00	00	00
- Deviation from methodology	00	00	00
- Clarification on applicability of methodology, tool and/or standardized baseline	00	00	00
Project boundary	00	00	00
Establishment and description of baseline scenario	00	00	00
Demonstration of additionality	00	00	00
Emission reductions	00	00	00
Calibration details	00	01	00
Monitoring plan	00	01	00
No Net harm assessment	00	00	00
Local stakeholder consultation	00	01	00
Others (please specify)-	00	02	00
- Regarding double counting Declaration			
- ER Sheet			
- Supporting documents			
Total	00	05	00

The list of findings and their resolution is presented in appendix 2 of this report.

2.5.1 Forward Action Requests

This is 4th verification of the project activity and no FAR was raised from previous verification or validation /and during this verification process.

2.6 Eligibility for Validation Activities

This section is not applicable for present verification, as Applus+ Certification holds the accreditation for Validation of projects under this Sectoral Scope

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project activity is first registered under VCS (<https://registry.verra.org/app/projectDetail/VCS/1195>) with fixed crediting period as 19-June-2011 to 18-June-2021.

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

3.2 Methodology Deviations

The project activity has not requested for deviation applied during this monitoring period.

3.3 Project Description Deviations

Deviation 1:

The below deviation is requested for correction in formula for calculation of Net electricity exported by the project proponent.

As per the registered PDD:

Net electricity exported by the project proponent is calculated as mentioned below: $EGPJ_y = (\text{Export} - \text{Import}) \times (1 + \text{Transmission Loss})$

The above formula was not followed currently and in actual, transmission losses are calculated separately for export and import and below formulas are considered for export and import values of project activity WTGs.

The use of above apportioning formula and calculation of export and import values for project activity WTGs is under control of state electricity board and PP do not have any control on it.

The actual monitoring practice/formula has been updated now and PP is getting share certificate/break up certificate which gives the direct values of Net electricity exported by the project proponent. The net electricity can be verified from the invoices provided by the PP.

Thus, deviation was requested in previous monitoring period 01-April-2020 to 31-May-2021 under crediting period 19-June-2011 to 18-June-2021.

Deviation 2:

The crediting period mentioned in VCS PD section 1.6 is as "The project has begun generating GHG emission reductions from 19th June 2011. Hence crediting period for VCS begins on 19th

June 2011 and ends on 30th December 2012, since the crediting period under CDM starts on 31st December 2012. The project proponent will also not claim GHG emission reductions under VCS and CDM scheme for same period during the period of 31st December 2012 to 30th December 2022”

Also, section 1.7 of VCS PD mentioned 10 years fixed crediting period. Thus, there is inconsistency in VCS crediting period mentioned in VCS PD. Hence deviation is requested to confirm that VCS crediting period will be 19th June 2011 to 18th June 2021 i.e 10 years fixed crediting period. Also end date of VCS crediting period is within end date of CDM crediting period which is in line with VCS Standard Version 4.3.

The previous verification (VCS MR and Verification Report) confirmed the VCS crediting period as 19th June 2011 to 18th June 2021..

Thus, deviation is requested to correct VCS Crediting period information.

VVB confirmed that start date of VCS crediting period is on 19th June 2011 and end date is on 18th June 2021 i.e. 10 years fixed crediting period. VVB also confirmed that duration of VCS crediting period is well within the end of CDM crediting period i.e. 30-Dec-2022 which is in compliance with VCS standard, version 4.3.

3.4 Grouped Project

The project does not involve any addition of new project activity and thus the project do not fall under grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During remote audit verification, it was concluded that the project is implemented as per VCS PD and this is verified from the commissioning certificate submitted. During the current monitoring period it was observed that no unforeseen situation evolved which can impact the operation of the project activity. The same was verified through the shutdown summary sheet of the project activity submitted. Scheduled maintenance was carried out as per the instruction of the manufacturer and the same is acceptable to the assessment team.

Project location is confirmed by the assessment team through interview with PP during remote audit through video conferencing and assessment of monitoring report. Assessment team also checked the technical details of the project site containing latitude and longitude of the project site and confirmed that the details as mentioned in the registered PD are correct.

The wind power project is located in Tejwa – Mokal village, Jaisalmer District, Rajasthan State, India. The geographical location of the project site with commissioning dates are as shown below:

Sr. No.	WTG ID	WTG Co-ordinate		Date of Commissioning
		Latitude	Longitude	
1	MK014	27.1631	70.6809	04-Aug-2011
2	MK015	27.1612	70.6858	19-Jul-2011
3	MK016	27.1594	70.6907	19-Jul-2011
4	MK017	27.1576	70.6956	19-Jul-2011
5	MK021	27.1466	70.7251	30-Sep-2011
6	MK039	27.1697	70.6926	12-Jul-2011
7	MK040	27.1715	70.6877	12-Jul-2011
8	MK042	27.1752	70.6779	19-Jul-2011
9	MK043	27.1771	70.673	04-Aug-2011
10	MK066	27.1837	70.6848	12-Jul-2011
11	MK067	27.1812	70.6891	30-Jun-2011
12	MK068	27.1804	70.6949	30-Jun-2011
13	MK069	27.1782	70.6995	30-Jun-2011
14	MK092	27.1887	70.7016	19-Jun-2011
15	MK093	27.1905	70.6966	25-Jun-2011
16	MK094	27.1924	70.6917	30-Jun-2011
17	MK161	27.2195	70.6917	25-Jun-2011
18	MK163	27.2237	70.6833	25-Jun-2011
19	MK164	27.2255	70.6784	19-Jun-2011
20	MK165	27.2274	70.6735	19-Jun-2011

The project activity comprises of 20 Wind Turbine Generators (WTG's) with a capacity of 2.1 MW each. The project activity is using S-88- 2.1 MW WTG manufactured by Suzlon Energy Ltd. The technology of electricity generation from renewable wind resource is environment friendly as it does not use any fossil fuel. The power (electricity) thus produced by the project activity would be transmitted to the state electricity grid, thereby displacing equivalent amount of power in the grid which is dominated by emission intensive thermal power plants.

S88_2.1 MW wind turbines utilize well-proven DFIG technology that has been deployed in more than 5000 units around the world. The technical lifetime of the wind turbine is 20 years. Key inclusions in this design are:

- DFIG convertor featuring variable speed
- Larger swept area with rotor diameters; 95 and 97 meters
- 80-meter, 90-meter and 100-meter hub heights

The technical specification of the WTG is as follows:

MODEL	S88- 2.1MW
Operating Data	
Rated power	2.1MW
Cut-in wind speed	4 m/s
Rated wind speed	14 m/s
Cut-out wind speed	25 m/s
50 years gust wind speed	59.5 m/s
Hub height	79 m (Foundation top equal to ground level)
Wind Class	IEC – IIA
Rotational Speed	15 to 17.6 rpm
Rotor	
Pitch system	Pitch regulated, electrical
Diameter	88 m
Swept area	6082 m ²
Blade material type	Epoxy bounded fibre glass
Generator	
Type	Asynchronous slip ring type induction generator
Rated power	2100 kW
Rated voltage	690/600 V
Frequency	50/60 Hz
Protection	IP 54, IP23 for slip ring unit
Cooling system	Air cooled
Insulation	Class H
Slip control	Unique Flexi-Slip providing slip up to 16.67%
Braking System	
Aerodynamic brake	3 independent systems with blade pitching mechanism
Mechanical brake	Hydraulic fail-safe disc brake system
Gearbox	
Type	3 stages (One planetary & Two helical)
Ratio	1:98.8 / 1:118.1
Nominal load	2200 kW
Yaw System	
Type	Driven by 3 electrical driven planetary drives
Bearings	Polyamide slide
Certifications	
Design standards	GL 2003
Quality	ISO 9001:2000, ISO 9001:2008, ISO 14001:2004 & OHSASA 18001:2007
Tower	
Type	Tubular Steel Tower (4 sections)
Corrosion protection	Epoxy/PU coated

The assessment team confirmed through interview with O&M personal during remote audit that there are no changes into the project design during this monitoring period. It was found that the monitoring plan was implemented as per the requirement of the PD & approved monitoring Plan and applied methodologies. The organisational role and responsibility as mentioned in the

registered VCS PD is followed onsite. The calibration of energy meter is carried out as per the required frequency mentioned in the VCS PD. All the emergency preparedness as mentioned in the registered PD is followed onsite and no discrepancies were found regarding the same.

Participation under other GHG Programs

The PP has participated under CDM mechanism of UNFCCC. The UN reference id 8591 of program with this project activity. The PP would not consider the credit from any other mechanism for the current monitoring period which is 01- June-2022 to 18-June-2022. The undertaking is provided to confirm that there is no any double accounting for current monitoring period.

Other forms of credit

The PP has not applied this project in any Emission Trading Programs and other Binding Limits.

The PP has not applied this project in any other form of environmental credits or for REC benefits. PP not participating for REC benefits can be verified from this link- https://www.recregistryindia.nic.in/index.php/publics/accredited_regens.

The assessment team observed that the project is in line with the registered PD and applied methodologies and thus no clarification/deviation is sought. 05 CAR was raised during the verification process. Please refer below Appendix 2 for the detail closure of the CARs.

Assessment team confirms following during the remote audit verification:

1. Start date of the project is 19-June-2011.
2. An undertaking letter has been submitted by PP for no double counting with any other GHG program. PP also has given a written declaration that project will not claim other form of GHG credit for the concerned monitoring period.
3. Assessment team confirms that this is the 4th verification under VCS and covers the activity from 01-June-2021 to 18-June-2021 (Inclusive both the dates). VCS crediting period is of 10 years with 19-June-2011 as the start date of crediting period and end date as 18-June-2021.
4. Assessment team checked and found that the Project proponent of the project activity is as below for the current monitoring period:

Organization name	Mytrah Energy (India) Limited
Contact person	Mr. Ramesh Kure
Title	Assistant Manager
Address	1st Floor, 8001, 8th Floor, Q-City, Nanakramguda, Gachibowli, Hyderabad 500032, Telangana, INDIA

Telephone	+91 72888 75975
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Finding: CAR 01, 02, 03,04, 05 were raised and successfully closed. Please refer appendix 3 for more information.

4.2 Safeguards

4.2.1 No Net Harm

No potential environment or socio-economic matter was found during the discussion with PP during remote audit. The project is renewable energy project and thus no negative impact observed as confirmed by PP during remote audit.

The report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” prepared by MNRE dated September 2013². This report clearly mentioned that wind power 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.

4.2.2 Local Stakeholder Consultation

All the stakeholders are happy with the implementation and operation of the project activity and no negative comments envisaged for the project activity. Complaint/suggestion/feedback register is maintained at site as a part of ongoing communication with stakeholders in line with clause 3.16.17 of VCS Standard, version 4.3 and appropriate actions taken time to time by PP.

Assessment team checked the grievance register provided by PP and found that local stakeholders can anytime lodge their grievances if any in the register over the operational life time of the project. During current monitoring period, no grievance was received. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate. CAR 03 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.

² <http://www.indiaenvironmentportal.org.in/content/382380/developmental-impacts-and-sustainable-governance-aspects-of-renewable-energy-projects/>

4.3 AFOLU-Specific Safeguards

Not Applicable.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the MR. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan of the VCS PD and MR.
Findings	No CAR or CL was raised.
Conclusion	As per the registered PDD and applied methodology, Formula used to calculate achieved emission reduction is as follow; $ER_y = BE_y - PE_y - LE_y$ As per registered PD and current MR, the build margin and operating margin CO₂ emission factor of Indian grid is taken from Central Electricity Authority: CO₂ Emission Database CEA CO₂ Baseline database Version 07. Thus, $EF_{grid,OMsimple,y} = 0.9842 \text{ tCO}_2/\text{MWh}$ $EF_{grid,BM,y} = 0.8588 \text{ tCO}_2/\text{MWh}$ and $EF_{grid,CM,y} = 0.9529 \text{ tCO}_2/\text{MWh}$ The baseline emissions are calculated as below $BE_y = EG_{PJ,y} * EF_{grid,CM,y}$ Where: BE_y: Baseline emissions in year y (tCO₂e/yr) 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/yr) 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). Monitored Parameters EG_{PJ,y} Net electricity generation supplied by the project plant to the grid during the

monitoring period. The value monitored is 6,584 MWh. Net electricity supplied is calculated on the basis of the difference between calculated values of “export” and calculated value “import” on the JVVNL energy meter at the common evacuation point and the percentage transmission loss as prescribed in the PPA for metering at 220 kV.

The net electricity supplied to grid is cross checked with the JMR and invoices/sales record to confirm the consistency and found ok.

The verification team has checked the entire monthly Energy generation records applicable for the monitoring period as per the project activity applied for verifications and found the monitoring parameter is monitored and recorded as per the monitoring plan in the registered PD. The net electricity supplied by project activity to grid is calculated by subtracting total electricity imported by project from grid from total electricity delivered by project to grid.

The verification team has reviewed the emission reduction sheet and monitoring report data with the energy generation reports and found all the values are consistent.

The calculation of baseline emissions is as below,

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

$$BE_y = 6,584 * 0.9529$$

$$BE_y = 6,274 \text{ tCO}_2\text{e (round down values)}$$

Project emissions:

As per para 36 of ACM0002 methodology “For all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected”. Hence, $PE_y = 0$.

Leakage Emission

The project activity is a Greenfield wind power project and there is no technology transfer with respect to this project activity. Hence the Leakage emissions for the project are zero.

Hence, net GHG reduction and removals

$$\begin{aligned} ER_y &= BE_y - PE_y - LE_y \\ &= 21,038 - 0 - 0 \end{aligned}$$

Where:

ER_y	:	Net GHG emission reductions or removal (tCO ₂ e)
BE_y	:	Baseline emissions (tCO ₂ e)
PE_y	:	Project emissions (tCO ₂ e)

	LEy : Leakage emissions(tCO2e)				
	Year	Baseline emissions or removals (tCO2e)	Project emissions or removals (tCO2e)	Leakage emissions (tCO2e)	Net GHG emission reductions or removals (tCO2e)
	01-June-2021 to 18- June-2021	6,274	0	0	6,274
	Total	6,274	0	0	6,274
	VVB confirmed that GHG reductions and removals have been quantified correctly and in line with monitoring procedure in PD and applied methodology. The actual GHG avoided during the current monitoring period is 6,274 tCO2e. The estimated GHG during current monitoring period is 3,485 tCO2e. The actual VCU is 80% higher than the estimated VCU. This variation is majorly due to the variations in wind flow pattern, grid availability and other parameters which are not in the control of PP. The PLF achieved during current monitoring period is 36% whereas the registered PLF is 20.16%³. The higher PLF is due to the pre- monsoon season, the wind speed reaches the highest in the month of June in western Rajasthan in Jaisalmer. Thus, based on the data and assessment team's local expertise, assessment team has found this acceptable and confirm that this will not have an impact on additionality in a long run.				

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	The verification team checked the shutdown/break down log for the monitoring period. During the remote audit verification, the energy meters are also checked. The Calibration details of the monitoring meters are also checked with calibration certificates.
Findings	CAR 05 was raised.
Conclusion	Calibration of all the meters is done as per the registered PD. Assessment team has checked the calibration certificate and found that meters are calibrated as

³ This is average annual PLF, whereas the current monitoring period is only for 18 days of June month which is high wind speed season. The annual average PLF will remain in the range as per approved PD. During previous monitoring periods also the PLF was in range which can be confirmed from below mentioned link.
<https://registry.verra.org/app/projectDetail/VCS/1195>

	per calibration frequency mentioned in registered PD. The calibration frequency mentioned in registered CDM PDD/VCS PD is one year with accuracy class of energy meter is 0.2s. Meters are calibrated as per the standard procedures and documents for the same are maintained throughout. Meters are calibrated as per the standard procedures and documents for the same are maintained throughout. Cross check by recipient of sales. The responsibilities and authorities of project management, data handling and recording, measurement methods and QA/QC procedure have been systematically established and formalized and the same was verified during the remote audit. Remote audit verification and interview with site personnel also confirms that the operational and organizational chart as mentioned in registered PD is as per the site practice and thus assessment team confirms that the details are correct. The project was operational continuously during the monitoring period without any major breakdown. Assessment team checked the routine maintenance log book and confirmed that it does not have any impact on project design and monitoring procedures. No unforced error observed. Assessment team confirmed that data/ information used for determining GHG reductions and removals were sufficient in quantity and of appropriate quality. Calibration certificates of meters/ QA/QC procedure checked and found to be appropriate.
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4.6 Non-Permanence Risk Analysis

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Not applicable	Not applicable	Not applicable	Not applicable

5 VERIFICATION CONCLUSION

Applus+ Certification has been engaged by “Mytrah Energy (India) Limited (MEIL)” to perform the verification of the “Wind power project in Rajasthan”.

The management of the project participant/owner is responsible for the preparation of the GHG emissions data and the reported/estimated GHG emissions reductions on the basis set out within the project’s Monitoring Plan in the PD and MR and the approved methodologies.

Our Verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board and VCS Standard

version 4.3. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is operated as planned and described in the project document;
- the monitoring plan is as per the applied methodology;
- the monitoring process in Monitoring Report is as per the registered VCS PD and CDM PDD.
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.
- A reasonable level of assurance was achieved during the verification.
- No limitation observed for the present verification

Verification period: From 01-June-2021 to 18-June-2021 (first and last date included).

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

Year	Baseline emissions or removals (tCO2e)	Project emissions or removals (tCO2e)	Leakage emissions (tCO2e)	Net GHG emission reductions or removals (tCO2e)
01-June-2021 to 18- June-2021	6,274	0	0	6,274
Total	6,274	0	0	6,274

The actual GHG avoided during the current monitoring plan is 6,274 tCO2e. The estimated GHG during current monitoring period is 3,485 tCO2e. The actual VER is 80% higher than the estimated VER. This variation is majorly due to the variations in wind flow pattern, grid availability and other parameters which are not in the control of PP. The above variation is conservative. Hence, acceptable.

APPENDIX 1: DOCUMENTS REVIEWED DURING VERIFICATION

No.	Author	Title	References to the document	Provider
1.	State Utility	Commissioning Certificate	Commissioning of the wind power project	Project participant
2.	NA	Technical specifications	Technical specifications of wind Power project manufactured	Project participant
3.	NA	Registered CDM PDD and validation report Registered VCS PD and validation report	https://cdm.unfccc.int/Projects/DB/DNV-CUK1354785555.66/view https://registry.terra.org/app/projectDetail/VCS/1195	Project Participant
4.	NA	1 st monitoring report and verification report for the same	https://registry.terra.org/app/projectDetail/VCS/1195	VERRA
5.	NA	Initial Monitoring report Final Monitoring report	Version 01, dated 09-June-2022 Version 03, dated 28-July-2022	Project participant
6.	NA	Emission Calculation sheet	Version 01, dated 09-June-2020	Project participant
7.	NA	Tools/ guidelines used in the project activity - Glossary of CDM terms version 07 - VCS standard Version 4.3 - VCS Program Guide 4.2 - VCS verification report template version 4.1 - Tool to calculate emission factor, version 7.0	UNFCCC CDM web site VERRA website	UNFCCC & VERRA
8.	NA	Calibration details of the project activity undergoing verification	Calibration certificates	Project participant
9.	NA	Joint Meter readings	Plant log book	Project participant
10.	NA	No Double Counting Declaration	07-June-2022	Project participant
11.	State Utility for share	Share certificates and Invoices for complete monitoring period from 01-June-2021 to 18-June-2021.		Project participant

No.	Author	Title	References to the document	Provider
	certificate s, PP for invoice			
12.	NA	Grievance Register maintained at site		
13.	UNFCCC	CDM validation and verification standard for project activities, Version 03.0	-	UNFCCC
14.	Project participant	Shutdown details for the Project Activity Maintenance log book	-	Project participant
15.	UNFCCC	CDM methodology ACM0002	version 12.3.0	UNFCCC
16.	Project participant	Report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” MNRE dated September 2013		
17.	Suzlon	Training records		Project participant
18.	Suzlon	Single Line diagram		Project participant

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

Project Implementation Status

CL ID	00	Section no.		Date: 06-July-2022
Description of CL				
NA				
Project participant response				Date: DD-Month-2022
NA.				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD-Month-2022
NA				

CAR ID	01	Section no.	4.1	Date: 06-July-2022
Description of CAR				
During review of monitoring report following inconsistencies observed: 1. PP requested to submit copies of technical specifications of WTGs, O&M agreement, PPA & Breakdown sheet of the project activity. Kindly submit. 2. PP has mentioned commissioning date of project activity in section 1.7 of monitoring report, however to verify the same, supporting documents is missing. PP is requested to submit it to assessment team. Kindly submit. 3. In Section 2.1, the weblink for the report by MNRE dated September 2013 on “Development Impacts and Sustainable Governance Aspects of Renewable Energy Projects” is found missing. Thus, corrective action sought. 4. Name of the Host country DNA is incorrect in section 1.11 of MR Version 1, Dated 09-June-2022. Thus, corrective action sought.				
Project participant response				Date: 07-July-2022
1. Technical specifications of WTGs. O and M agreement and PPA is submitted herewith. There is no major breakdown occurred during current monitoring period. 2. commissioning certificates are submitted herewith. 3. This has been corrected in the revised MR version 2.0 4. This has been corrected in the revised MR version 2.0				

Documentation provided by project participant	
1. Technical specifications of WTGs. O and M agreement and PPA 2. Commissioning certificate Revised MR version 2.0	
DOE assessment	Date: 20-July-2022
1. PP has now submitted the technical specification, O&M agreement and PPA for the further assessment. 2. PP has now submitted the commissioning certificate which confirmed the date 19 June 2011 mentioned in the VCS MR. 3. PP has now corrected the weblink which is now functioning in the revised version 02 of the MR. 4. Section 1.11 has been updated in the revised version 02 of the MR. Hence, CAR 01 is closed.	

CAR ID	02	Section no.	4.1	Date: 06-July-2022
Description of CAR				
PP is requested to submit an undertaking for no double accounting for current monitoring period and for project activity is participated in other GHG program other than VCS.				
Project participant response				Date: 07-July-2022
No double counting declaration is submitted herewith				
Documentation provided by project participant				
No double counting declaration				
DOE assessment				Date: 20-July-2022
PP has now submitted the undertaking for no double counting for current monitoring period and for PA participated in other GHG program other than VCS. Hence, CAR 02 is closed.				

CAR ID	03	Section no.	4.2.2	Date: 06-July-2022
Description of CAR				
PP requested to submit records for ongoing local stakeholder consultation including grievance register etc. to assessment team.				
Project participant response				Date: 07-July-2022

Grievance register is submitted herewith	
Documentation provided by project participant	
Grievance register	
DOE assessment	Date: DD-Month-2022
PP has now submitted the grievance register for ongoing stakeholder consultation. Hence, CAR 03 is closed.	

Accuracy of GHG Emission Reduction and Removal Calculation

CAR ID	04	Section no.	4.4	Date: 06-July-2022
Description of CAR				
PP is requested to submit all supporting documents for all the monitoring parameters and monitored values of the project activity to assessment team.				
Project participant response				Date: 07-July-2022
JMR and Invoices are submitted herewith				
Documentation provided by project participant				
1.JMR				
2.Invoice				
DOE assessment				Date: 20-July-2022
PP has now submitted the supporting documents – JMR and Invoice receipt for all the monitoring parameters to the assessment team which has been checked and found ok. Hence, CAR 04 is closed.				

Quality of Evidence to Determine GHG Emission Reductions and Removals

CAR ID	05	Section no.	4.5	Date: 06-July-2022
Description of CAR				
In order to verify the calibration details mentioned in Appendix 1 of MR Version 1, Dated 09-June-2022, PP is requested to submit the copies of calibration certificates covering complete monitoring period to the assessment team.				

Project participant response	Date: 07-July-2022
Calibration certificates are submitted herewith	
Documentation provided by project participant	
Calibration certificates	
DOE assessment	Date: 20-July-2022
PP has now submitted the calibration certificates for the current monitoring period. Hence, CAR 05 is closed.	

APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Lead Auditor/Technical Expert	OR	Kumar	Pankaj	TQC-Outsourced entity	Yes	No	Yes	Yes

Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer (TR)	EI	Meesa	Srikanth	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustin	Applus+ Certification

Short CVs of the Team:

1. **Pankaj Kumar** - Mr. Pankaj Kumar has done M. Sc in Environment Management from Forest Research Institute, Dehradun and B. Sc. (Hons.) in Environment & Water Management from Magadh University, Bihar, India. He has also done Post Graduate Diploma in Environmental Law from NLSIU, Bangalore. He has more than 12 years of working experience in GHG Assessments and has participated during his career in Agencies and DOEs like MITCON, Agrinergy, Carbon Check and is empanelled with Applus+ Certification since 2015 for the performance of CDM/VCS/GS project assessments. He has extensive experience in the Renewable, Waste Management and Energy Demand Scopes of UNFCCC CDM and has done more than 100 Validations and Verifications of PAs and PoAs as Lead Auditor, Technical Expert and Technical Reviewer, mainly in Asia, Africa, USA, Asia Pacific and Americas under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil. He is an experienced, qualified and result oriented Environment and climate change professional having 16 yrs. of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Climate finance, adaptation planning, capacity building, validation and verification of GHG project. He can also provide technical support for environmental investigative, remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing. Mr. Pankaj Kumar is based in Patna, India.
2. **Mr. Srikanth Meesa** - Mr. Srikanth Meesa is a climate change professional with more than 16 years of experience in the fields of climate change, GHG auditing, carbon footprint assessments, water and energy audits, scope-3 emissions, net zero strategies, sustainability & ESG sectors and water and wastewater treatment sectors. He has completed his masters in Environmental Engineering & Management from I.I.T Delhi and Bachelors in Civil Engineering from Osmania University. Furthermore, he has extensive experience i.e., more than 14 years on the auditing of CDM, VERRA, GS, JCM projects of various sectoral scopes across the world. He has worked with reputed certification bodies such as TUV NORD, DNVGL, TUV SUD and LR. He also has consulting experience on sustainability reports & road-maps, stakeholder consultation and LCA studies while working at Thinkstep (Now called Sphera). Currently, he is associated with Global Green Solutionz and empanelled with Applus+ Certification to carry out GHG audits in the aforementioned schemes. Mr. Srikanth Meesa is based at Hyderabad, India.

APPENDIX 4: ABBREVIATIONS

Abbreviations	Full Texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
VCS	Voluntary Carbon Standard
VER	Verified Emission Reduction(s)
VVB	Validation and Verification Body
CL	Clarification Request
CM	Combined Margin
CO ₂	Carbon Dioxide
CO _{2e}	Carbon Dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming Potential
VCS	Verified Carbon Standard
PP	Project Participant
JVVNL	Jaipur Vidyut Vitran Nigam Limited
PLF	Plant Load Factor
MR	Monitoring Report
JMR	Joint Meter Reading

APPENDIX 5: CALIBRATION DETAILS

Feeder number	Meter number	Meter make	Calibration date	Calibration due date
SEL-73	13195548	L&T	23-January-2020	22-January-2021
			13-January-2021	12-January-2022
	13195549	L&T	23-January-2020	22-January-2021
			13-January-2021	12-January-2022
SEL-112	RJB90206	L&T	23-January-2020	22-January-2021
			13-January-2021	12-January-2022
	RJB90207	L&T	23-January-2020	22-January-2021
			13-January-2021	12-January-2022

Feeder meter details:-

WTG	Feeder Number	Meter Number	Meter Make	Calibration Date	Next Calibration due date
MK 66	Fed No. 10	RJB 72831	Secure Meters Limited	16-March-2021	15-March-2022
		RJB 72832	Secure Meters Limited	18-March-2021	17-March-2022
MK 164 MK 165	Fed No. 11	RJB 73524	Secure Meters Limited	18-March-2021	17-March-2022
		RJB 73525	Secure Meters Limited	18-March-2021	17-March-2022
MK67 MK68 MK69 MK92 MK93 MK94	Fed No. 12	RJB 73521	Secure Meters Limited	18-March-2021	17-March-2022
		RJB 73522	Secure Meters Limited	18-March-2021	17-March-2022
MK14 MK15	Fed No. 14	RJB 73571	Secure Meters Limited	18-March-2021	17-March-2022

MK16 MK 17		RJB 73572	Secure Meters Limited	18-March-2021	17-March-2022
MK39 MK40 MK42 MK43	Fed No. 13	RJB 73569	Secure Meters Limited	16-March-2021	15-March-2022
		RJB 73570	Secure Meters Limited	16-March-2021	15-March-2022
MK 21	Fed No. 17	RJB 74434	Secure Meters Limited	18-March-2021	17-March-2022
		RJB74435	Secure Meters Limited	18-March-2021	17-March-2022
MK 161 MK 163	Fed No. 16	RJB 74432	Secure Meters Limited	17-March-2021	16-March-2022
		RJB 74433	Secure Meters Limited	13-March-2021	12-March-2022