VCS VALIDATION REPORT

WIND POWER PROJECT BY RAJASTHAN GUM PRIVATE LIMITED (EKIESL-CDM.SEPTEMBER-12-02)

Document Prepared by (R S PREMKUMAR – LEAD VERIFIER)

Bureau Veritas India Pvt. Ltd.

72, Business Park, 8th Floor, Marol Industrial Area, Opp. Seepz Gate No. 02, MIDC Cross Road "C", Andheri (East), Mumbai – 400 093

Project Title	*Wind Power Project by Rajasthan Gum Private Limited (EKIESL-CDM.September-12-02)*
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Report Title	*Wind Power Project by Rajasthan Gum Private Limited (EKIESL-CDM.September-12-02)*
Client	*EKI Energy Services Ltd*
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Prepared By	*Bureau Veritas India Pvt. Ltd.*
Contact	*72, Business Park, 8th Floor, Marol Industrial Area,* *Opp. Seepz Gate No. 02, MIDC Cross Road "C",* *Andheri (East), Mumbai – 400 093* *Tel. (+ 91 22) 6274 2000* *https://www.bureauveritas.co.in*
Approved by	*Mr. V. Sankarasubramanian, General Manager Technical (Certification), South Asia Region*
Work carried out by	*R S Premkumar*

Summary:

Provide a brief summary of the following:

- *The purpose of this validation is to assess the VCS Project document for renewal of crediting period.*

  The project activity involves the installation of 07 nos. WTG's, with 2.1 MW capacity each, thereby totalling 14.7 MW. Of the total 07 WTGs of the project activity, 04 nos. are located at Sangli district in Maharashtra state and the remaining 03 nos. are located at Jaisalmer district in Rajasthan state. The project activity WTGs are located as follows; 01 no. at village Yeldhari, 02 nos. at village Mendhgiri and 01 no. at village Jath, in Jath Tehsil, Sangli district of Maharashtra State. 03 nos. at village Kanod in Mohangarh-1 Tehsil, Jaisalmer district in Rajasthan state.

  The entire electricity generated from the 04 WTG's located at Sangli district and 02 WTGs located at Jaisalmer district is sold to the respective State Electricity Utility viz; MSEDCL and RRVPNL respectively. The electricity generated from 01 WTG is connected to the grid but is used for captive purpose. There have been no modifications or alterations to the project activity during the previous crediting period.

- *The main purpose of the project activity is to generate electrical energy through sustainable means using wind power resources, to utilize the generated output for selling it to the grid and to contribute to climate change mitigation efforts. This renewable energy will partially substitute the electricity currently evacuated into the grid by the thermal power plants, thus contributing to the sustainable development of the region socially, environmentally and economically.*

  The validation scope is defined as an independent and objective review of the revised project design document for Renewal of Crediting period (RCP), the project's baseline study and monitoring plan, the monitoring report and associated relevant documents. The information in these documents is reviewed against the VERRA rules.

  In carrying out its validation work, the DOE shall;

  (a) Ensure that the project activity has been implemented and operated as per the registered PDD and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;

  (b) Ensure that the revised PD for RCP and other supporting documents provided are complete and are verifiable, in accordance with VCS PD template, as issued by VERRA.

  (c) Ensure that actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology;

- *The method and criteria used for validation: The scope is defined as an independent and objective review of the VCS Project Document (PD: relevant clause: 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). The PD 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, the VCS standard and VCS Guide, including the approved baseline and monitoring methodology AMS.I. D version 18. The validation was based on the requirements in the Validation and Verification Standard (VVS version 03), project standard*

version 03, project cycle procedure version 03, VCS Program Guide Version 4.3 and VCS Standard version 4.4

- *The number of findings raised during validation: There are 02 CL's and 01 FAR raised during this validation.*
- *Any uncertainties associated with the validation: Not Applicable.*
- *Summary of the validation conclusion:*

  Bureau Veritas India Pvt. Ltd. has performed the validation of renewal of the crediting period for the project activity "Wind Power Project by Rajasthan Gum Private Limited (EKIESL-CDM.September-12-02)", which applies the methodology AMS ID, version 18.0. The validation was performed on the basis of UNFCCC and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

  The validation consisted of the following three phases:

  - *desk review of the revised PD for RCP and the baseline and monitoring plan;*
  - *follow-up interviews with project stakeholders;*
  - *resolution of outstanding issues and the issuance of the final validation report.*

  Bureau Veritas Certification confirms that the project is implemented as described in the revised VCS PD for RCP, including the monitoring plan. It further confirms that the revised PD confirms with all the relevant requirements of VERRA as well as UNFCCC guidelines for renewal of crediting period. Thus, Bureau Veritas Certification requests for renewal of the crediting period of the project activity.

CONTENTS

1 INTRODUCTION

1.1 Objective

Bureau Veritas Certification has been appointed by "EKI Energy Services Limited" to perform the validation for renewal of crediting period of the registered project activity "Wind Power Project by Rajasthan Gum Private Limited (EKIESL-CDM.September-12-02)" under VCS standard and guideline. The objective of this validation activity is to re-validate the baseline of the project activity and also confirm the emission factor for the 2nd crediting period.

In particular;

- *the project's baseline is re-assessed against "AMS.I. D, Version 18, EB 81"*
- *the project's monitoring plan is assessed against "AMS.I. D, Version 18"*
- *the re-assessment of emission factors for the 2nd crediting period.*
- *CDM Validation and Verification Standard version 03*
- *CDM Project Standard version 03*
- *CDM Project Cycle Procedure version 03*
- *VCS Standard v4.4*
- *VCS Program Guide v4.3*

1.2 Scope and Criteria

The validation scope is defined as an independent and objective review of the revised VCS PD document for Renewal of Crediting period (RCP), the project's baseline study and monitoring plan, the monitoring report and associated relevant documents. The information in these documents is reviewed against the requirements of the VCS standard, VCS Program Guide, UNFCCC CDM rules as defined in the CDM Validation and Verification Standard for Project Activities (version 03), Project Cycle Procedure for Project Activities (version 03), Project Standard for Project Activities (version 03), Kyoto Protocol requirements and UNFCCC rules.

In carrying out its validation work, the DOE shall;

(a) Ensure that the project activity has been implemented and operated as per the registered VCS PD and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;

(b) Ensure that the revised VCS PD for RCP and other supporting documents provided are complete and are verifiable, in accordance with latest PDD template, as issued by the VCS Board.

(c) Ensure that actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology.

1.3 Reasonableness of Assumptions

The validation of the project activity for the 2nd crediting period has been conducted with a Reasonable level of assurance.

1.4 Summary Description of the Project

The project activity involves the installation of 07 nos. WTG's, with 2.1 MW capacity each, thereby totalling 14.7 MW. Of the total 07 WTGs of the project activity, 04 nos. are located at Sangli district in Maharashtra state and the remaining 03 nos are located at Jaiselmer district in Rajasthan state. The project activity WTGs are located as follows; 01 no. at village Yeldhari, 02 nos. at village Mendhgiri and 01 no. at village Jath, in Jath Tehsil, Sangli district of Maharashtra State. 03 nos. at village Kanod in Mohangarh-1 Tehsil, Jaisalmer district in Rajasthan state.

The entire electricity generated from the 04 WTG's located at Sangli district and 02 WTGs located at Jaisalmer district is sold to the respective State Electricity Utility viz; MSEDCL and RRVPNL respectively. The electricity generated from 01 WTG is connected to the grid but is used for captive purpose. There have been no modifications or alterations to the project activity during the previous crediting period.

The main purpose of the project activity is to generate electrical energy through sustainable means using wind power resources, to utilize the generated output for selling it to the grid and to contribute to climate change mitigation efforts. This renewable energy will partially substitute the electricity currently evacuated into the grid by the thermal power plants, thus contributing to the sustainable development of the region socially, environmentally and economically.

2 VALIDATION PROCESS

2.1 Method and Criteria

According to the sectoral scopes / technical area and experiences in the sectoral or national business environment, BVIL has appointed a project validation team, in accordance with the internal requirements of BVIL. It is required that the sectoral scope / technical area related to the methodology has to be covered by the validation team. The detail regarding the assessment team is provided below in this report as Appendix 3.

The VCS Project Document submitted by the PP was reviewed against the approved methodology 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. As a physical site visit is not mandatory for the validation of renewal of crediting period, a remote telephonic interview was conducted by the validation team leader with the PP representatives to confirm selected information and to resolve issues identified in the document review. The detail is provided in this report in the below sections.

2.2 Document Review

The validation team reviewed the revised VCS PD for RCP to assess the description of the project activity, description of the baseline scenario in accordance with the latest version of the applied methodology, revised estimation of emission reductions and the monitoring plan.

In addition to the revised PD for RCP submitted by the project participants, the validation team also reviewed:

(a) The registered VCS PD and the validation report, including the monitoring plan and the corresponding validation report;

(b) Commissioning certificates

(c) Power Purchase Agreements etc.

The validation findings presented in this report relate to the project as described in the revised VCS PD for RCP, version 03 dated 02/02/2023. Appendix 1 lists the documentation that were reviewed during this verification.

2.3 Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	*Soni*	*Bharat*	*Rajasthan Gum Private Ltd.*	*26/01/2023*	*- Project Implementation - Baseline - Operation and Maintenance - Management practices - Roles & Responsibilities - Data collection and transfer procedures - Monthly JMR process - Calibrations etc.*	*R S Premkumar*
2.	*Saha*	*Tapti*	*EKI Energy Services Ltd.*	*26/01/2023 28/01/2023 02/02/2023*	*- Baseline - ER calculations*	*R S Premkumar*

					- Emission factor calculation	

2.4 Site Visits

Paragraph 30 (a) of the CDM validation and verification standard for project activities, version 03.0, mandates the on-site inspection for validation of the project activity if the estimated annual average GHG emission reduction is more than 100,000 tCO_{2e}. The validation team verified and confirms that the annual average of the estimated GHG emission reductions from this project activity is 24,213 tCO_{2e} which is less than the defined threshold value of 100,000 tCO_{2e}. Also, paragraph 30 (b) of the CDM VVS Version 03.0 requires mandatory site visit to be conducted if there is pre-project information that is relevant to the requirements for registration of the project activity and which may not be traceable after the registration. The validation team confirms that there is no pre-project information that is relevant to the requirements for registration of the project activity and which may not be traceable after the registration, since the project activity is already implemented as per the registered CDM PDD.

The validation team has taken alternative measures to validate pre-project information and implementation of the project activity, applying standard auditing techniques for verification, as referred in section 7.1.3.1 of the "CDM validation and verification standard for project activities, Version 03.0". The validation team conducted telephonic interviews with the onsite project personnel to validate the implementation of project activity, the actual operation & maintenance activities taking place at the site, monitoring & management practices in place etc. Further, the validation team also reviewed third party documents such as commissioning certificates, Power Purchase Agreement, sample MSEDCL & RRVPNL JMR's & sample invoices. Based on the telephonic interviews conducted with the site personnel and document review; the validation team is able to confirm that the project activity is still implemented and operated in-line with the registered PDD. There is no change in the project design or operation and monitoring practices at site which can alter the applicability or additionality of the project activity. The validation team, is therefore of the opinion that the project activity is implemented as described in the registered PDD in the first crediting period and no change is envisaged for the proposed second crediting period.

Duration of remote telephonic interviews: 26/01/2023				
No.	*Activity performed on-site*	*Site location*	*Date*	*Team member*
1.	*Discussion on the implementation of the project activity as described in the registered PDD and RCP PDD.*	*Telephonic interviews and document review*	*26/01/2023 (Telephonic interviews)*	*R S Premkumar*
2.	*Review of the continued suitability of the defined baseline for the project activity.*			
3.	*Review of the calculation of ex-ante and ex-post parameters*			

4.	Discussion on the emission reduction calculations including baseline emissions, project emissions and leakage emissions.			
5.	Review of the monitoring plan including QA/QC procedures, roles and responsibilities etc			

2.5 Resolution of Findings

The objective of this phase of the gap validation and Verification was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for Bureau Veritas Certification's positive conclusion on the project design. The Corrective Action Requests and Clarification Requests raised by BVIL were resolved during communications between the client representatives and BVIL to guarantee the transparency of the validation process, the concerns raised and responses given are summarized below in Appendix 2 below.

The final VCS PD version 03 submitted by PP dated 02/02/2023 serves as the basis for the final assessment presented. Additional changes to the project during the validation process are not considered to be significant with respect to the main CDM/VCS objectives. The two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with VCS PD form	00	00	00
Application and selection of methodologies and standardized baselines	CL 01	00	00
Validity of original baseline or its update	00	00	00
Estimated emission reductions or net anthropogenic removals	00	00	00
Validity of monitoring plan	CL 02	00	00
Crediting period	00	00	00
Project participants	00	00	00
Post-registration changes	00	00	00
Others (please specify) – Para 7 (c) of EB 108th meeting report	00	00	FAR 01
Total	02	00	01

2.5.1 Forward Action Requests

There is 01 FAR raised during this validation activity. Details of the same can be found in Appendix 2

3 VALIDATION FINDINGS

3.1 Project Details

- *Project type, technologies and measures implemented, and eligibility of the project:*

The present project activity is registered under CDM mechanism (UN reference number: 10026). The project can be traced via link (http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1408957529.49/view)
The gap validation is performed for the project activity as per the VCS standard version 4.4.

As per the requirement of this template, following are the observation of the assessment team:

1. The project is registered under CDM mechanism and UN reference number of the project is 10026. The project title is Wind Power Project by Rajasthan Gum Private Limited (EKIESL-CDM.September-12-02)

2. The project is eligible s per the requirements of the VCS standard version 4.4.

3. Assessment team adopted a step wise procedure to assess the respective clause required for gap validation under VCS Standard version 4.4:

According to the categorisation system of the Clean Development Mechanism, which is part of Green House Gas (GHG) program that has been approved by the VCS board, the project is categorised as:

Type I: Renewable energy projects
Category: Grid connected renewable electricity generation – AMS I.D., version 18

- *Project design, including eligibility criteria for grouped projects*
- *Validation team verified the type and category of the project activity and found that the project is eligible under Type I and renewable category of project. Hence the project is eligible under VCS program.*
- *Project proponent and other entities involved in the project*

As per CDM registered PDD "EKI Energy Services Limited "is the project proponent. However, as per the requirement of VCS "the project owner should be considered as project proponent and hence BVIL has considered "Rajasthan Gum Private Limited" as the project proponent. The name of the person, address and phone number is assessed to be correct for VCS validation purpose. Hence, Clause 1.3 as described in the VCS PD is accepted by the validation team.

- *Ownership:*

The ownership of the project activity was verified by the validation team through a review of the commissioning certificates issued by the respective State Electricity Utilities i.e. MSEDCL and RRVPNL. The validation team also cross-checked the Power Purchase Agreement (PPA) signed by the Project Owner with MSEDCL and RRVPNL and confirms the owner of the project to be M/s Rajasthan Gum Private Limited.

- *Project start date:*

The start date of the project activity is considered as the commissioning date of the first WTG of the project, as per the definition of start date of VCS. The validation team verified the commissioning certificates of the project activity WTGs and confirm that the start date of the

project activity to be 28/09/2012, which is the date of commissioning of the first WTG of this project activity.

- *Project crediting period:*

The first crediting period of 10 years was from 28/09/2012 to 27/09/2022. Hence the second crediting period shall start from 28/09/2022 to 27/09/2032.

- *Project scale and estimated GHG emission reductions or removals:*

The emission reduction of the project activity is less than 300,000 tCO_2e per annum and thus project falls under project category as per the requirement of VCS. The validation team verified the annual emission reduction calculation and confirm that the annual emission reductions from the project activity is 24,213 tCO2e, which is less than 300,000 tCO_2e per annum.

- *The baseline emissions are calculated as per the requirement of the applied methodology as below;*

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

Where;
BE_y= Baseline emissions in year 'y'
$EG_{,PJ,y}$ = Electricity generated by the project activity in year y; and
$EF_{grid,CM,y}$ = Emission factor for the Indian grid
Project Emissions:
According to the applied methodology, project emissions from wind power project is considered as zero.
Hence $PE_y = 0$

Leakage Emissions:
According to the applied methodology, leakage emissions from wind power project is considered as zero.
Hence $LE_y = 0$

Hence, Emission Reductions is calculated as;
$ER_y = BE_y - PE_y - LE_y$

- *Project location*

The project location was verified and confirmed as follows;

Project Promoters' Name	*WTG No.*	*Site*	*Capacity in MW*	*State*	*Purpose*
Rajasthan Gum Private Limited	*WTG 1*	*Jath*	*1*2.1 MW*	*Maharashtra*	*Sale to grid*
	WTG 2	*Jath*	*1*2.1 MW*	*Maharashtra*	*Sale to grid*
	WTG 3	*Jath*	*1*2.1 MW*	*Maharashtra*	*Sale to grid*
	WTG 4	*Jath*	*1*2.1 MW*	*Maharashtra*	*Sale to grid*
	WTG 5	*Kaladunger*	*1*2.1 MW*	*Rajasthan*	*Sale to grid*

	WTG 6	*Kaladunger*	*1*2.1 MW*	*Rajasthan*	*Sale to grid*
	WTG 7	*Kaladunger*	*1*2.1 MW*	*Rajasthan*	*Captive Usage*

- *Conditions prior to project initiation:*
  The condition existing prior to the implementation of the project activity would be; the electricity delivered to the grid by the project activity would have been otherwise generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system". This is also the defined baseline for the project activity.

- *Project compliance with applicable laws, statutes and other regulatory frameworks*
  The project activity continues to conform to all the applicable laws and regulations in India including;
  1. *Electricity Act 2003*
  2. *National Electricity Policy 2005*
  3. *Tariff Policy 2006*

- *Participation under other GHG programs:*
  The project activity has been registered under Clean Development Mechanism program with UNFCCC. The corresponding registration reference number is 10026.
- *Projects registered (or seeking registration) under other GHG program(s)*
  The project activity has been registered under Clean Development Mechanism program with UNFCCC. The corresponding registration reference number is 10026.
- *Rejection by other GHG programs:*
  The project activity has not been rejected by any other GHG programs.
- *Other forms of credit and supply chain (Scope 3) emissions":*
  The project activity does not generate Other forms of credit and supply chain (Scope 3) emissions.

- *Emissions trading programs and other binding limits*
  The project participant does not use net GHG emission reductions by the projects for compliance with emission trading program to meet binding limits on GHG emissions

- *Other forms of environmental credit sought or received and eligible to be sought or received*
  - *Issuance of public statement(s) to help prevent scope 3 emissions double claiming*

    Project has been registration with UNFCCC under Clean Development Mechanism program. Registration reference number is 10026. Project Proponent has submitted undertaking for not availing other forms of environmental credit for the same crediting period under consideration.

- *Email notification of the potential risk of Scope 3 emissions double claiming*
  Not Applicable.
- *Sustainable development contributions*

The National CDM Authority (NCDMA), which is the Designated National Authority (DNA) for the Government of India (GOI) under the Ministry of Environment Forests and Climate Change (MoEFCC), has mentioned four indicators for the sustainable development in the interim approval guidelines for Clean Development Mechanism (CDM) projects from India.

Social Well being

The project activity has provided job opportunity to local people during erection, commissioning and also the operation and maintenance phase of the project. This has directly and indirectly affected the economy of villages and nearby area in a positive manner.

Environmental well being

The Wind power is one of the cleanest renewable energy powers and does not involve any fossil fuel. There are no GHG emissions. The impact on land, water, air and soil is negligible. Thus, the project activity contributes to environmental well-being without causing any negative impact on the surrounding environment.

Economic Well being

The project activity generates permanent and temporary employment opportunity within the vicinity of the project. The electricity supply in the nearby area improves which directly and indirectly improves the economy and life style of the area.

Technological Well being
The project activity has led to the promotion of WTGs in the region and demonstrates the success of wind turbines in the region. Hence, the project activity leads to technological well-being.

- *Additional information relevant to the project, including:*
- *Leakage management for AFOLU projects*

Not applicable to this project activity.

- *Commercially sensitive information*
  There is no commercially sensitive information related to the project activity.

  In conclusion, the validation team confirms that the project description as provided in the VCS PD is accurate, complete and provides a clear understanding of the nature and purpose of the project activity.

3.2 Safeguards

3.2.1 No Net Harm

Not Applicable, as the project activity does not negatively impact the environmental and/or the socio-economic status of the region. In fact, it has improved the socio-economic status of the local population in the form of creating job opportunities and businesses.

3.2.2 Local Stakeholder Consultation

The local stakeholder consultation process was conducted during the initial validation process during the first crediting period, in the year 2012. There is no additional local stakeholder consultation process conducted during the current 2nd crediting period.

3.2.3 Environmental Impact

There is no environmental impact associated with the project activity operations. Schedule 1 of the Ministry of Environment Forests and Climate Change (MoEFCC – Government of India) notification dated September 14, 2006, indicates 39 activities are required to undertake environmental impact assessment studies. As the wind power generation projects are not listed in any of the categories of the schedule, it does not require Environmental Impact Assessment.

3.2.4 Public Comments

Since this is the second crediting period, the need to publish the VCS PD for global stakeholder comments do not apply. However, the global stakeholder consultation was conducted during the initial registration process and comments, if any, were addressed satisfactorily.

3.2.5 AFOLU-Specific Safeguards

This section is Not Applicable, as the project activity is a wind power project and not a AFOLU project.

3.3 Application of Methodology

3.3.1 Title and Reference

Title: Grid Connected Renewable Electricity Generation1
References: AMS I.D. (Version 18, EB 81)
This methodology also refers the latest approved tool - TOOL 07: Tool to calculate the emission factor for an electricity system (Version 07.0)

3.3.2 Applicability

The applicability of each of the criterion of the applied methodology to the project activity was validated as follows;

No.	*Applicability Criterion*	*Validation Opinion*
1.	*This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass:*	*The project activity is a greenfield wind power project with an installed capacity of 14.7 MW. The electricity generated from 06 WTGs of the project activity (out of the total*

[1] https://cdm.unfccc.int/UserManagement/FileStorage/2P7FS6ZQAR84LG3NMKYUH50WI9ODBC

	(a) Supplying electricity to a national or a regional grid; or *(b) Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling.*	*of 07 WTGs) is supplied to the respective State Electricity grid viz; MSEDCL & RRVPNL. Hence point (a) is applicable.* *Hence point (a) is applicable.* *The electricity generated from the remaining 01 WTG is connected to the grid however is used for captive purpose, through a wheeling agreement with the State Electricity Authority viz; RRVPNL Hence point (b) is also applicable.*
2.	*Illustration of respective situations under which each of the methodology (i.e. "AMS-I.D.: Grid connected renewable electricity generation", "AMS-I.F.: Renewable electricity generation for captive use and mini-grid" and "AMS-I.A.: Electricity generation by the user) applies is included in the appendix.*	*The project activity supplies electricity to the grid. Hence AMS ID is applicable as per Table 1 of the applied methodology.* *Hence this applicability condition is fulfilled.*
3.	*This methodology is applicable to project activities that:* *(a) Install a Greenfield plant;* *(b) Involve a capacity addition in (an) existing plant(s);* *(c) Involve a retrofit of (an) existing plant(s);* *(d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or* *(e) Involve a replacement of (an) existing plant(s).*	*The project activity is a greenfield wind power project supplying electricity to the grid. It does not involve any capacity additions or retrofits or rehabilitation or replacement to an existing plant.* *Hence this applicability condition is fulfilled for the project activity.*
4.	*Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology:* *(a) The project activity is implemented in an existing reservoir with no change in the volume of reservoir;* *(b) The project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density of the project activity, as per definitions given in the project emissions section, is greater than 4 W/m2;* *(c) The project activity results in new reservoirs and the power density of the power plant, as per definitions given in*	*The project activity is not a hydro power plant but a greenfield wind power project supplying electricity to the grid.* *Hence this applicability condition is not applicable to the project activity.*

	the project emissions section, is greater than 4 W/m2.	
1.	*If the new unit has both renewable and non-renewable components (e.g. a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW.*	*The project activity is a greenfield wind power project with an installed capacity of 14.7 MW, supplying electricity to the grid. There is no non-renewable component to the project activity* *Hence this applicability condition is not applicable to the project activity.*
2.	*Combined heat and power (co-generation) systems are not eligible under this category.*	*The project activity is a greenfield wind power project, supplying electricity to the grid. There are no combined heat and power systems in the project activity.* *Hence this applicability condition is not applicable to the project activity.*
3.	*In the case of project activities that involve the capacity addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct1 from the existing units.*	*The project activity is a greenfield wind power project supplying electricity to the grid. It does not involve retrofit, rehabilitation, replacement or capacity additions.* *Hence this applicability condition is not applicable to the project activity.*
4.	*In the case of retrofit, rehabilitation or replacement, to qualify as a small-scale project, the total output of the retrofitted, rehabilitated or replacement power plant/unit shall not exceed the limit of 15 MW.*	*The project activity is a greenfield wind power project supplying electricity to the grid. It does not involve retrofit, rehabilitation, replacement or capacity additions.* *Hence this applicability condition is not applicable to the project activity.*
5.	*In the case of landfill gas, waste gas, wastewater treatment and agro-industries projects, recovered methane emissions are eligible under a relevant Type III category. If the recovered methane is used for electricity generation for supply to a grid then the baseline for the electricity component shall be in accordance with procedure prescribed under this methodology. If the recovered methane is used for heat generation or cogeneration other applicable Type-I methodologies such as "AMS-I.C.: Thermal energy production with or without electricity" shall be explored.*	*The project activity is a greenfield wind power project supplying electricity to the grid. The project activity does not involve use of any landfill gas, waste gas, waste water treatment or agro industry projects.* *Hence this applicability condition is not applicable to the project activity.*
6.	*In case biomass is sourced from dedicated plantations, the applicability criteria in the tool "Project emissions from cultivation of biomass" shall apply.*	*The project activity is a greenfield wind power project supplying electricity to the grid. It does not involve sourcing of biomass from dedicated plantations.*

		Hence this applicability condition is not applicable to the project activity.

3.3.3 Project Boundary

As per Para 18 of AMS I.D., Version 18, the spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the VCS project power plant is connected to.

There has been no change in the project boundary since the 1st crediting period. The validation team verified the associated commissioning certificates of the project activity WTGs and confirms that the description of the project boundary as mentioned in section 3.3 of the VCD PD is correct and accurate. The project boundary as presented in the PD is as per the site locations and also as per the CDM registered PDD.
The project boundary would consist of all the WTG equipments, metering arrangements, connected sub-station & Indian grid, along with all the power plants connected to it. The major GHG source would be CO_2 as per the applied methodology, which has been described in the VCS PD. There are no other GHG sources relevant to the project activity, as per the applied methodology viz; AMS ID, Version 18.

Therefore, in conclusion, the validation team confirms that the project boundary described in the VCS PD is in line with the applied methodology and there has been no change in the same since the 1st crediting period.

3.3.4 Baseline Scenario

The validation team assessed the validity of the original baseline as per the methodological tool (EB 66, Annex 47) "Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period." (Version 03.0.1)" and "CDM validation and verification standard for project activities, version 03.0".

The assessment of the validity of the original baseline is carried out as follows;

Step 1: Assess the validity of the current baseline for the next crediting period

The CDM Project Standard for project activities, version 03 requires assessing the impact of new relevant national and/or sectoral policies and circumstances on the baseline.

The validity of the current baseline is assessed in the following sub-steps:
Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies
The baseline for the project activity is the "electricity delivered to the grid by the project activity which would have otherwise been generated by the operation of grid connected power plants and by the addition of new generation sources into the grid". The same baseline scenario is valid during this renewal of crediting period also, as in absence of the project activity, an equivalent quantity of electricity would need to be generated from the grid connected power plants (mainly fossil fuel) and new generation sources to meet the demand gap.

The Government of India enacted the Electricity Act in the year 2003 to harmonize and rationalize the provisions in the then existing laws. The Act consolidated the laws relating to generation, transmission, distribution, trading and use of electricity. With the Enactment of the act, the then existing laws viz, The Indian Electricity Act 1910, The Electricity Supply Act, 1948 and The

Electricity Regulatory Commissions Act, 1998 were repealed. The Electricity Act 2003 was in force at the time of the completion of the baseline study during the first crediting period also.

The current baseline still complies with all the relevant national and sectoral policies that are applicable at the time of requesting renewal of crediting period.
Hence, the baseline remains the same for the 2nd crediting period as there are no major changes in the national / sectoral policies from the date of registration till now and an equivalent quantity of electricity would have been generated in the grid in the absence of the project activity.

Step 1.2: Assess the impact of circumstances

There are no new circumstances that can impact the original baseline. The circumstances that were prevalent during the project initiation and registration w.r.t the investment and market environment like market access, tariffs etc. have not changed and continue during this second crediting period also. The baseline emission factor value is, however, updated based on the current latest data available for the Indian grid.

Step 1.3: Assess whether the continuation of the use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested

The "Tool to determine the remaining lifetime of equipment", version 01 defines the remaining lifetime of the equipment as the time for which the existing equipment can continue to operate before it has to be replaced/discarded.
As per this tool, Project participant can use one of the following options to determine the remaining lifetime of the equipment:
(a) Use manufacturer's information on the technical lifetime of equipment and compare to the date of first commissioning;
(b) Obtain an expert evaluation;
(c) Use default values

The project activity is a greenfield project and as per the registered PDD, the technical operational lifetime of the wind turbines is 20 years and hence the remaining lifetime of the WTGs exceed the crediting period for which renewal is requested i.e. 2nd crediting period. Therefore, as per manufacturers information, the remaining lifetime of equipment exceeds the crediting period for which renewal is requested, in accordance with Option 1 of the "Tool to determine the remaining lifetime of the Equipment."

As the remaining technical lifetime of the equipment is not less than the end of the crediting period for which renewal is requested, the current baseline holds good for this crediting period too.

Step 1.4: Assessment of the validity of the data and parameters

This step stipulates that "Where emission factors, values or emission benchmarks are used and determined only once for the crediting period, they should be updated, except if the emission factors, values or emission benchmarks are based on the historical situation at the site of the project activity prior to the implementation of the project and cannot be updated because the historical situation does not exist anymore as a result of the CDM project activity".

In the registered PDD, the grid emission factor was calculated as per the combined margin approach, wherein the weighted average of the OM & BM is considered and is fixed ex-ante for the entire crediting period.

EFgrid,CM,y – The baseline emission factor has been updated using the latest version of the "Tool to Calculate the emission factor for an Electricity System," version 07. The Operating Margin (OM), Build Margin (BM) and Combined Margin (CM) is calculated as per the latest version of CEA "CO2 Baseline Database" (Version 18) available to the project participant.

Step 2: Update the current baseline and the data and parameters

The assessments conducted in steps 1.1 to 1.4 above confirms the current baseline is valid for the second crediting period, however data and parameters is needed to be updated. Hence step 2 is followed.

Step 2.1: Update the current baseline
The baseline for the project activity remains the same for this crediting period as that in the registered PDD and is in accordance with the applied methodology viz; AMS ID Version 18.0 i.e. "electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid connected power plants and by the addition of new generation sources into the grid", as reflected in the Combined Margin (CM) calculations as described in the "Tool to calculate the emission factor for an electricity system".

Step 2.2: Update the data and parameters
The approved large scale consolidated methodology AMS ID, version 18.0 has been used to determine the baseline as well as the emission reductions for the 2nd crediting period. As per the above described methodology, "Tool to calculate the emission factor for an electricity system" Version 7.0 has been used to determine the continued validity of the baseline scenario based on the combined margin calculations.

As per AMS ID, Version 18.0, the baseline for the greenfield project activity is described as "electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid"

The combined margin is the combination of the weighted average of 02 emission factors namely; the Operating Margin (OM) and the Build Margin (BM) with the default weightages of 0.75 for WOM and 0.25 for WBM. The values and calculations of this combined margin have been based on the latest available CEA CO2 baseline database (Version 18), which is an official source of the Indian Electricity Authority and this data is publicly available. The validation team confirms that Version 18 is the latest available version of this database at the time of validation of RCP and therefore the same is accepted.

The Combined Margin (CM) emission factor is calculated as;
EFgrid,CM,y = (WOM X EFgrid,OM,y) + (WBM X EFgrid,BM,y)
*= (0.75 * 0.9518) + (0.25 * 0.8687)*
= 0.9310 tCO2 / MWh

In conclusion, the validation team confirms that the selected baseline is correct, is applicable to the project activity and in line with the approved methodology for the applied renewal of crediting period. Also, it confirms that the calculations of the operating margin, build margin and combined margin emission factors are correct.

3.3.5 Additionality

This section is not applicable, as the additionality of the project activity has already been demonstrated during the initial validation process (1st crediting period).

3.3.6 Quantification of GHG Emission Reductions and Removals

The emission reduction sheet, CEA CO2 database Version 18.0 and the VCS PD were verified by the validation team.

In line with para 412 (a), Section iv of the CDM VVS for project activities, Version 03.0, the validation team assessed the steps used in the calculation of the emission reductions. The validation team verified if the steps taken to calculate the baseline emissions, project emissions and leakage emissions by the PP comply with the requirements of the selected baseline and monitoring methodology.

The emission factor is fixed ex-ante for the entire crediting period. The updated values for the operating margin (OM) is 0.9518 tCO2e/MWh, build margin (BM) is 0.8687 tCO2e / MWh and the combined margin (CM) is 0.9310 tCO2e / MWh. The validation team confirms that the above values are based on the most recent data that is publicly available at the time of validation of the RCP.

The electricity supplied to the grid (EGBL,y) is verified as 26,008 MWh / annum.

Hence baseline emissions are calculated as,

*BEy = EG,PJ,y * EFgrid,CM,y*

*= 26,008 * 0.9310*

= 24,213 tCO2e

Project Emissions:

According to the applied methodology, project emissions from wind power project is considered as zero.

Hence PEy = 0

Leakage Emissions:

According to the applied methodology, leakage emissions from wind power project is considered as zero.

Hence LEy = 0

Emission Reductions:

ERy = BEy – PEy – Ley

= 24,213 – 0 – 0

= 24,213 tCO2e

3.3.7 Methodology Deviations

Not Applicable as there are no methodology deviations applied to the project activity in the 2nd crediting period

3.3.8 Monitoring Plan

The monitoring plan described in the revised VCS PD for RCP was verified to confirm if the approach and the validity of the monitoring plan is in accordance with the requirements of the applied methodology and the other requirements as mentioned in the CDM Project standard.

The validation team reviewed the revised VCS PD for RCP to confirm if the monitoring plan described in the PD contains the following viz;
a. If all the parameters as required by the applied methodology has been captured.
b. Means of monitoring the defined parameters is clearly explained.
c. If the data management and quality control / quality assurance procedures are adequately described.
d. Roles and responsibilities of project personnel.
e. Calibration information for the energy meters are described.

The above information was cross-checked with the registered PDD, v ersion 04 dated 03/07/2014 and confirmed through discussion with the project personnel.

As per para 22 of the applied methodology (AMS ID, version 18.0),
$BE_y = EG_{PJ,y} * EF_{grid,y}$

Where, BE_y *= Baseline emissions in year y*
$EG_{PJ,y}$ *= Quantity of net electricity generation fed into the grid in year y (MWh/yr.)*
$EF_{grid,y}$ *= Combined margin CO2 emission factor (tCO2/MWh)*

Further, for greenfield power plants, as per para 26 of the applied methodology;
$EG_{PJ,y} = EG_{PJ,facility,y}$

Where, $EG_{PJ,facility,y}$ *= Quantity of net electricity generation supplied by the project power plant to the grid in year y (MWh/yr)*

The monitoring plan of the revised PD for RCP was validated in the following manner;
$EG_{PJ,facility,y} = EG_{BL,y,RJ} + EG_{BL,y,MH}$

where,
$EG_{BL,y,RJ}$ *- Quantity of net electricity supplied to the grid in year y by WTG's located in Rajasthan state.*
$EG_{BL,y,MH}$ *– Quantity of net electricity supplied to the grid in year y by WTG's located in Maharashtra state.*

- $EG_{BL,y,RJ}$ *- Quantity of net electricity supplied to the grid in year y by WTGs in Rajasthan state .*
A main and check meter is available at the 33kV / 220 kV sub-station to which project activity as well as non-project activity WTGs are connected. The total electricity exported to the grid as well as imported from the grid by the project as well as non-project activity WTGs are recorded by these meters. Also, each individual WTG is equipped with Local Controller System (LCS) which provides daily generation data from each of the WTGs. The Joint Meter reading is taken monthly by the RRVPNL representatives along-with the PP representatives (O&M team) at the substation through the main and check meters. The O&M team then submits the monthly generation data recorded at the LCS of each individual WTG in the wind farm to RRVPNL. After receipt of this monthly generation data, the total electricity supplied by the individual WTGs would be calculated by RRVPNL, using an apportioning method, based on which the final Monthly Generation Report is prepared and issued by the local RRVPNL office, for each wind mill. The Monthly generation Report contains details of the parameters of total electricity exported by the individual WTG to the grid and the total electricity imported by the WTG from the grid.

$EG_{BL,y,RJ} = EG_{export,\ y,\ RJ} - EG_{import,y,RJ}$

- $EG_{BL,y,MH}$ *- Quantity of net electricity supplied to the grid in year y by WTGs in Maharashtra state*

A main and check meter is available at the sub-station to which project activity as well as non-project activity WTGs are connected. The total electricity exported to the grid by project as well as non-project activity WTGs are recorded by these meters which is connected through feeders to a 220 kV/33kV sub-station. Also, each individual WTG is equipped with Local Controller System (LCS) which provides daily generation data from each of the WTGs. The Joint Meter reading is taken monthly by the MSEDCL along-with the PP representative (O&M team) at the substation through the main and check meters. The O&M team then submits the monthly generation data recorded at the LCS of each individual WTG in the wind farm to MSEDCL. After receipt of this monthly generation data, the total electricity supplied by the individual WTGs would be calculated by the MSEDCL, using an apportioning method, based on which the final Monthly Credit Note / Generation report is prepared and issued by the local MSEDCL Circle Office, for each wind mill. The credit report contains details of the parameters of total electricity exported by the individual WTG to the grid, total electricity imported by the WTG from the grid and the net electricity exported by each WTG.

The validation team confirms that the entire process of apportioning the transmission loss data amongst individual investor WTG's is controlled and conducted by the respective State Electricity Utility viz; MSEDCL and RRVPNL and the Project Participant or their representatives have no role in the entire procedure of apportioning, described above. The same is also described in the revised PD for RCP.

- *$EG_{PJ,facility,y}$ – Net electricity exported to the grid by the project activity WTG's*

The parameter of $EG_{PJ,facility,y}$ is calculated as;
$EG_{PJ,facility,y} = EG_{BL,y,RJ} + EG_{BL,y,MH}$

The primary data , as reported in the Monthly generation Report / Credit Note can be cross-checked through the monthly invoices raised by the PP on the respective State Electricity Boards, which is in accordance with the requirements specified in the revised PRC PD. The main and the check meters are of accuracy class 0.2s and are bi-directional meters.

The energy meters at the Rajasthan site are tested for accuracy once every year whereas the meter calibration is conducted once in every 03 years. Similarly, the energy meters at the Maharashtra site shall be calibrated once every year. This information was also confirmed with the PP representatives during the telephonic interview

3.4 Non-Permanence Risk Analysis

Non-Permanence risk analysis is not applicable to the project activity validation as this validation Is conducted for renewal of the crediting period wherein the baseline scenario is require to be re-validated, the emission factor applicable to the 2nd crediting period based on the data values available at the time of validation and the monitoring plan are validated.

4 VALIDATION OPINION

Bureau Veritas Certification has performed a validation of Renewal of Crediting Period (RCP) for the 2nd crediting period of the project activity "Wind Power Project by Rajasthan Gum Private Limited (EKIESL-CDM.September-12-02)."

The validation was performed on the basis of UNFCCC criteria, host country criteria, VCS Standard Version 4.4, VCS Program Guide Ver 4.3, CDM VVS for project activities version 03.0, and related standards and guidance and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The validation consisted of the following three phases:

i) a desk review of the revised PDD for RCP
ii) follow-up interviews with project stakeholders;
iii) the resolution of outstanding issues and the issuance of the final validation report and opinion.

It is demonstrated that the project activity is not a likely baseline scenario and the emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. The project activity will result in reductions of GHG emissions that are real and measurable. The review of the revised project design documentation and the subsequent follow-up interviews have provided Bureau Veritas Certification with sufficient evidence to determine the fulfilment of stated criteria.

The GHG statement is the responsibility of the project proponent, whether the project conforms with the validation criteria for projects set out in VCS Standard Version 4.4. The validation team confirms that the validation of the GHG statement was conducted in accordance with ISO 14064-3:2019.

The total emission reductions from the project are verified as 242,130 tCO_{2e} over the 10-year crediting period. Bureau Veritas Certification thus requests registration of renewal of the 2nd crediting period for the project activity "Wind Power Project by Rajasthan Gum Private Limited (EKIESL-CDM.September-12-02)."

Validated GHG emission reductions and removals in the above period:

Year	Estimated GHG emission reductions or removals (tCO_{2e})
Year 1 28/09/2022 to 27/09/2023.	*24,213 tCO2e*
Year 2 28/09/2023 to 27/09/2024	*24,213 tCO2e*
Year 3 28/09/2024 to 27/09/2025	*24,213 tCO2e*
Year 4 28/09/2025 to 27/09/2026	*24,213 tCO2e*
Year 5 28/09/2026 to 27/09/2027	*24,213 tCO2e*
Year 6 28/09/2027 to 27/09/2028	*24,213 tCO2e*
Year 7 28/09/2028 to 27/09/2029	*24,213 tCO2e*

Year 8 28/09/2029 to 27/09/2030	*24,213 tCO2e*
Year 9 28/09/2030 to 27/09/2031	*24,213 tCO2e*
Year 10 28/09/2031 to 27/09/2032	*24,213 tCO2e*
Total estimated ERs	*242,130 tCO2e*
Total number of crediting years	*10 years*
Average annual ERs	*24,213 tCO2e*

APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED

No.	Author	Title	References to the document	Provider
1	PP	Registered VCS PD, Version 01 dated 05/07/2016	--	UNFCCC website
2	PP	Revised PD for RCP, Version 03 dated 02/02/2023	--	PP
3	PP	ER calculation sheet for 2nd crediting period	--	PP
4	LGAI Technological Center SA	Validation Report of 1st crediting period, dated 11/02/2017	--	PP
5	AVVNL	Commissioning certificates for all the project activity WTGs in Rajasthan State	--	PP
6	MSEDCL	Commissioning certificates of WTGs in Maharashtra State	--	PP
7	AVVNL & MSEDCL	Power Purchase Agreements	--	PP
8	RRVPNL	Wheeling agreement for 01 no. WTG (2.1 MW) in Rajasthan State.		PP
9	RRVPNL	Sample Monthly JMR's	--	PP
10	MSEDCL	Sample monthly JMR's	--	PP
11	Verra website	VCS PD Format	Version 4.2	VCS website
12	UNFCCC	AMS ID – Grid-connected renewable electricity generation	Version 18.0	UNFCCC
13	Verra website	VCS Standard	Version 4.4	Verra website
14	Verra website	VCS Program Guide	Version 4.3	Verra website
15	UNFCCC	CDM validation and verification standard for project activities	Version 03.0	UNFCCC
16	UNFCCC	CDM Project Standard for project activities	Version 03.0	UNFCCC
17	UNFCCC	CDM Project Cycle Procedure for Project Activities	Version 03.0	UNFCCC
18	UNFCCC	Tool 11 - Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period.	Version 03.0.1	UNFCCC
19	UNFCCC	Tool 07 - Tool to calculate the emission factor for an electricity system	Version 07.	UNFCCC
20	UNFCCC	Tool to calculate the remaining lifetime of equipment, version 01	EB 50, Annex 15	UNFCCC
21	Central Electricity Authority, India	CDM CO_2 baseline database, Version 18	https:// .nic.in/cdm-co2-	Publicly available

			baseline-database/?lang=en	

APPENDIX 2: Clarification Requests, Corrective Action Requests and Forward Action Requests

Table 1. CL from this validation

CL ID	*01*	*Section no.*		*Date: 26/01/2023*
Description of CL				
Some of the justification statements made in section 3.2 of the revised RCP PD, to demonstrate the applicability of the applied methodology is not clear. Please elaborate further. E.g. Applicability condition at para 6 etc.				
Project participant response				*Date:*
Section 3.2 of the revised PD has been updated according to the latest version of the used methodology.				
Documentation provided by project participant				
Revised PD for RCP, Version 03				
DOE assessment				*Date:*
The justification statements have now been corrected and further elaborated in section 3.2 of the revised PD for RCP. Hence the CL is closed.				

CL ID	*02*	*Section no.*		*Date: 26/01/2023*
Description of CL				
• *Description of the parameters of $EG_{BL,y,RJ}$ & $EG_{BL,y,MH}$ in section 5.2 of the PD is not clear.* • *Description of the energy meters like main meter/check meter etc. is not clearly described for the Maharashtra site under section 5.2 of the revised RCP PD.*				
Project participant response				*Date:*
• *Description of the parameters of EGBL,y,RJ & EGBL,y,MH have been updated in section 5.2 of the revised PD.* • *Description of energy meters in Maharashtra site has been specified as main and check meters along with their accuracy class in section 5.2 of the revised PD.*				
Documentation provided by project participant				
Revised PD for RCP, Version 03				
DOE assessment				*Date:*
The justification statements have now been corrected and further elaborated in section 3.2 of the revised PD for RCP. Hence the CL is closed.				

Table 2. CAR from this validation

CAR ID		*Section no.*		*Date:*
Description of CAR				
Nil				
Project participant response				*Date:*

Documentation provided by project participant	
DOE assessment	*Date:*

Table 3. FAR from this validation

FAR ID	*01*	*Section no.*	*NA*	*Date: 26/01/2023*
Description of FAR				
In accordance with the provisions stated in the EB 113th meeting Report, Para 4 (b) Annex 1, the project participant(s) [coordinating/managing entity (ies)] are required to: *(i) Apply any global warming potential values that may be adopted by the CMP for that period in their monitoring reports for any emission reductions achieved on or after 1 January 2021; and* *(ii) Update their project or programme design documents in accordance with any requirements of the CMP guidance.* *The verification DOE to ensure that the PP applies the GWP values adopted by the CMA or the Supervisory Board for the period from 01 January 2021 in the monitoring reports.*				
Project participant response				*Date: DD/MM/YYYY*
–				
Documentation provided by project participant				
–				
DOE assessment				*Date: DD/MM/YYYY*
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APPENDIX 3: Competence of Team Members and Technical Reviewer

Mr R S Prem Kumar - Lead Assessor – CDM & Sustainability

He is an environment engineer by qualification with over 25 years of overall work experience. Total 09 years' experience in manufacturing sector and the remaining 16 years' experience in third party certification including conducting audits and trainings against the ISO 9001, 14001 & 45001 standards.

Lead Verifier for Clean Development Mechanism (CDM) & VCS projects with over 70 projects validated or verified till date and registered with the UNFCCC. He is also a GRI qualified professional for assessing GRI Sustainability Reports and have also conducted these assessments. Also involved in conducting assessments for ISO 14064-1:2018 and also Water Neutrality assessments. He is a CII Certified Professional in Life Cycle Assessment.

Mr Bhavesh Prajapati – Internal Technical Reviewer

APPENDIX 4: Abbreviations

Abbreviations	Full texts
AMS	Approved Methodology Small
AVVNL	Ajmer Vidyut Vitaran Nigam Ltd.
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CEA	Central Electricity Authority
CER	Certified Emission Reductions
CL	Clarification Request
CM	Combined Margin
CO2e	Carbon Dioxide Equivalent
DOE	Designated Operational Entity
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GHG	Green House Gas(es)
JMR	Joint Monthly Reading
MOC	Modalities of Communication
MSEDCL	Maharashtra State Electricity Distribution Company Ltd
PD	VCS Project Document
PP	Project Participant
PPA	Power Purchase Agreement
PRC	Post registration Changes
RCP	Renewal to Crediting Period
RRVPNL	Rajasthan Rajya Vidyut Prasaran Nigam Limited
UNFCCC	United Nations Framework Convention for Climate Change
VVS	Validation & Verification Standard
WTG	Wind Turbine Generator