



BUNDLED WIND POWER PROJECT BY MYTRAH GROUP



Document Prepared By

LGAI Technological Center S.A. (Applus+ Certification)

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Summary:

Verification purpose: LGA Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed/^{2/} by “Infinite Environmental Solutions”¹ to perform the 5th periodic verification of the “Bundled Wind Power Project by Mytrah Group” (VCS ID 1728)^{4/}. 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 CDM and VCS requirements.

The purpose of the project activities to generate energy electricity by the utilization of wind energy and further selling the generated energy to the Indian grid. In this process there is no consumption of any fossil fuel and hence it does not lead to any greenhouse gas emissions. Thus, electricity would be generated through sustainable means without causing any negative impact on the environment.

Start date of the project activity is the 30-December-2015 (As per earliest date of commissioning of first WTG was commissioned under the Project activity)^{01/}. The monitoring period for this VCS verification is 01-June-2021 to 28-February-2022 (including both days) and the project activity achieved 588,760 tCO₂e emission reductions during this monitoring period thereon displaced 609,924 MWh amount of electricity from the generation-mix of power plants connected to the Indian Grid, which is mainly dominated by thermal/fossil fuel-based power plant.

The scope of the verification is the independent and objective review of the Monitoring Report (MR)^{6/}. 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 project activities, version 03.0/^{16/}, review against VCS approved PD & MR/^{4/} and Final Validation report, VCS program guideline version 4.1/^{10/} and VCS Standard Version 4.2/^{10/}

A risk-based approach has been followed to perform this verification activity. In the course of verification, 04 Corrective Action request (CAR) and 01 Clarification Requests (CLs) were raised and successfully closed. No FAR

¹ Mytrah Group consists of subsidiary companies i.e., Mytrah Vayu (Indravati) Pvt. Ltd, Mytrah Vayu (Som) Pvt. Ltd., Mytrah Vayu (Godavari) Pvt. Ltd., Mytrah Vayu (Krishna) Pvt. Ltd., Mytrah Vayu (Tungabhadra) Pvt. Ltd.

was raised during this verification. 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 LGAI Technological Center S.A. (Applus+ Certification) with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

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 document verifications. The entire documents checked/verification conducted to arrive at positive verification conclusions.

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1 INTRODUCTION

1.1 Objective

LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “Infinite Environmental Solutions” to perform the 5th periodic verification of the “Bundled Wind Power Project by Mytrah Group” under guideline version 4.1 and VCS standard Version 4.2. 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 ACM0002 of version 17.0/^{20/}
- The project's monitoring plan is assessed against “ACM0002 of version 17.0/^{20/}
- the projects 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 guideline version 4.1/^{10/} and standard Version 4.2/^{10/}
- CDM validation and verification standard for project activities, Version 03.0/^{16/}
- VCS program guideline v. 4.1/^{10/}
- VCS standard v. 4.2/^{10/}

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 emission reductions (VCUs).

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR)^{6/} prepared as per the VCS approved PD & MR/^{4/} and registered approved methodology ACM0002 version 17.0/^{20/}. 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 4.2/^{10/} and guideline version 4.1/^{10/}, including the approved baseline and monitoring methodology ACM0002 version 17.0/^{20/}. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 03.0/^{16/} and VCS program guideline version 4.1/^{10/} and VCS Standard Version 4.2/^{10/}

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. It follows the paper trail back to the raw data such as meter reading records and invoices. There are no material errors, overestimation of ER, omission or misstatement. The verification team has reviewed all the documents like commissioning certificates^{/1/}, technical specification^{/3/}, O&M practices, JMR^{/11/}, invoices^{/11/}, grievance registers^{/15/} etc.

1.3 Level of Assurance

Applus + Certification has planned and performed the verification by obtaining evidence and other information and explanations that assessment team considers necessary to give reasonable assurance that reported estimated GHG emission reductions are fairly stated. All documentary evidences were checked, Onsite visit was conducted to arrive at a verification conclusion by the assessment team.

In our opinion, the estimated GHG emissions reductions were calculated correctly on the basis of the approved baseline and monitoring methodology “ACM0002 of version 17.0”^{/20/} and the VCS Standard Version 4.2^{/10/}

1.4 Summary Description of the Project

The project activity is a wind-based power generation project. The project activity involves installation of 493.9 MW wind project in in different states of India. The Project activity consists of 253 Wind Turbine Generators (WTGs). The details related to installed WTG’s are as follow: These are the subsidiary companies of Mytrah Group. The commissioning details of the project and their location with SPVs are mentioned in the table below:

Sl. No.	Name of the SPVs	Project Site	Location (State)	Project Capacity (MW)	Date of Commissioning
1	Mytrah Vayu (Indravati) Pvt. Ltd.	Bhesada	Rajasthan	8.4	30-December-2015
2	Mytrah Vayu (Indravati) Pvt. Ltd.	Pottipadu	Andhra Pradesh	105	31-December-2015
3	Mytrah Vayu (Som) Pvt. Ltd.	Nidhi	Rajasthan	90	31-March-2016
4	Mytrah Vayu (Som) Pvt. Ltd.	Nipaniya	Madhya Pradesh	30	20-January-2016
5	Mytrah Vayu (Godavari) Pvt. Ltd.	Nazeerabad	Telangana	100.8	27-March-2016
6	Mytrah Vayu (Krishna) Pvt. Ltd.	Burgula-II	Andhra Pradesh	10.8	30-March-2017

7	Mytrah Vayu (Tungabhadra) Pvt. Ltd.	Aspari-I	Andhra Pradesh	98.3	15-October- 2016
8	Mytrah Vayu (Tungabhadra) Pvt. Ltd.	Aspari-II	Andhra Pradesh	50.6	16-March- 2017
	Total			493.9	

During site visit, VVB team verified longitude and latitude of each installed WTGs mentioned in section 1.7 of monitoring report by PP and found it correct as it in line with actual coordinates measured plant site through “Google Map” application (GPS Software).

The monitoring period this VCS verification covered from 01-June-2021 to 28-February-2022, (inclusive of both dates) and the project activity achieved 588,760 tCO₂e emission reductions during this monitoring period.

Assessment team checked the Commissioning status of the project activity with the commissioning Certificates and found correct. The project is implemented as per the description in the VCS approved PD & MR. No event observed during the current monitoring period which can alter or deviate from the methodology requirement.

2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification Process: The project assessment is based on the “CDM validation and verification standard for project activities, Version 03.0/^{16/} and “VCS standard Version 4.2/^{10/}, program guideline version 4.1/^{10/}” 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/^{16/} against the VCS approved joint PD & MR/^{04/} and final validation report/^{17/};
2. Onsite audit and site visit;
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. 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 validating the identified criteria.

Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification as composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of Applus+ certification. The composition of audit team shall be approved by the 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
Dr. Atul Takarkhede	LA/TE	YES	YES	NA	YES
Mr. Ishan Shrivastava	AiT	YES	YES	NA	YES
Mr. Simon Shen	TR	YES	YES	NA	NA

The detail regarding the assessment team is provided below in this report as Appendix 3

Document review

The Monitoring report version 01/06/ submitted by the PP was reviewed against the approved methodology^{/20/}, VCS approved PD& MR^{/04/}, 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.

Site Visit

A Site visit is conducted by Applus+ Certification. Audit team performed onsite audit with project stakeholders to confirm selected information mentioned in monitoring report and to resolve issues identified in the document review. The detail is provided in this report.

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 02/⁰⁶/ submitted by PP 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 two 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 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 PP the positive verification opinion and relevant documents are submitted to the VCS board 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. Also, the objective of the document review was to verify the following issues:

- Confirm the implementation and operation of the project in line with VCS PD: the project activity is implemented as per the registered PD and there is no change in capacity or design of the project activity since Commissioning. Same was confirmed from Commissioning certificates, technical specifications of the WTGs, PPA, interviews with PP/Site in charge and JMR as well as invoices raised by PP towards state utility;
- Review the data flow for generating, aggregating and reporting the monitoring parameters: JMR procedures are followed at the project site in line with the state utility practice and are in line with the registered PD. JMR procedure is confirmed during the interviews with PP and assessment team also checked entire monthly JMRs issued by the state utility for the project

activity with the values provided in the ER sheet for the calculations of the emission reductions;

- Confirm the correct implementation of procedures for operations and data collection: during interviews with PP, it was confirmed that implementation of procedures for operations and data collection is in line with registered PD. Service provider is responsible for the operations, maintenance as well as maintaining other technical data of the project activity. Performance and operation data of each WTG is controlled and maintained by service provider through the dedicated software and made available to the PP as & when required;
- Cross-check the information provided in the MR documentation with other sources: the information provided in the MR was crosschecked with the Commissioning certificates, PPA, Calibration certificates and JMRs are issued by Statutory authority and invoices are used for cross-checking;
- Check the monitoring equipment against the requirements of the PD and the approved Methodology, including Calibration, maintenance, etc.: monitoring meters are cross checked with the previous verification reports, interviews with PP, Calibration is checked with the Calibration certificates issued by State Utility authorized third parties;
- Review the calculations and assumptions used to obtain the GHG data and ER: calculation procedures and monthly generation data is checked with JMR and crosschecked with invoices;
- Identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters: during interviews with PP, it was confirmed that quality control and quality assurance procedures are in place. Metering arrangements & JMR procedure is defined and controlled by state utility and PP do not have control on it. Assessment team checked all the monthly JMR values as well as crosschecked with the invoices and found that emission reductions are calculated conservatively.

2.3 Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Kure	Mr. Ramesh	PP representative	11/05/2022(MP)	Project Implementation, JMR & invoicing procedure, calibration, grievance mechanism, Management practices, data storage, QA/QC	Dr. Atul Takarkhede (Team Leader)
2.	-	Mr Mallikarjun	Site-in-charge, Burgula II site	12/05/2022(RJ)		
3.	Prajapath	Mr Jitendra	Site-in-charge, Bhesasa	14/05/2022(AP)		Mr. Ishan Shrivastava (Auditor-in-Trainee)
4.	Ali	Mr Usman	Site-in-charge, Pottipadu	16/05/2022(TG)		
5.	C.	Mr. anbalagan	Site-in-charge, Nazeerabad			

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
6.	Ram	Mr. Nema	Site-in-charge, Nidhi			
7.	Saheb	Mr. Baba	Site-in-charge, Nipaniya site			
8.	-	Mr. Anjaneyulu	Site-in-charge, Aspari-I and II			
9.	Sharma	Mrs. Nitya	Infinite Environmental Solutions LLP		GHG calculations, MR and ER preparation, Data collection, data storage, QA/QC	
10.	Singh	Mr. Ran Vijay	Local Stakeholder (RJ)		Local Stakeholder consultation	
11.	Jat	Mr. Vinod				
12.	Hasan	Mr. Gopal Krishna	Local Stakeholder (AP)			
13.	Husain	Mr Shaqib				
14.	Naidu	Ms. Gaurav	Local Stakeholder (TG)			
15.	Raman	Mr. Venkat				
16.	Maru	Mr. Mukesh	Local Stakeholder (MP)			
17.	Saxena	Mr. Rupesh				

2.4 Site Inspections

Duration of on-site inspection: 11/05/2022(MP), 12/05/2022(RJ), 14/05/2022(AP), 16/05/2022(TG)				
No.	Activity performed on-site	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 & MR/4/ is actually practised onsite. Also, assessment team checked any change in host country criteria which may affect the baseline of the project activity.	Madhya Pradesh (MP), Rajasthan (RJ) Andhra Pradesh (AP), & Telangana (TG) States of India	11/05/2022(MP) 12/05/2022(RJ) 14/05/2022(AP) 16/05/2022(TG)	Dr. Atul Takarkhede (Team Leader) Mr. Ishan Shrivastava (Auditor-in-Trainee)

Moreover, to verify the implementation of project activity, onsite operation & maintenance, monitoring & management practices; assessment team has conducted visual inspection with onsite in-charge to the **WTG locations, service provider's Central Monitoring Stations (CMS) & connected substations**, O&M team and also had a detail discussion with the PP representative and reviewed third party statutory documents i.e. Commissioning certificates, Power Purchase Agreement, Complete set of JMRs covering monitoring period, Invoice (for cross check of Net electricity supplied to the grid as per revised PD), breakdown log, O&M schedule, complaint/feedback register and other relevant records

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 from verification which need to be clarified for Applus+ Certification's 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 02/06/ submitted by PP 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 two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
Project design document and Monitoring report	00	00	00
Description of project activity	01	02	00
Application of selected baseline and monitoring methodology and selected standardized baseline			

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
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	01	00
Calibration details	00	01	00
Monitoring plan	00	00	00
No Net harm assessment	00	00	00
Local stakeholder consultation	00	00	00
Others (please specify)	00	00	00
Total	01	04	00

The list of findings and the resolution is presented in Appendix 2 of this report.

2.5.1 Forward Action Requests

This is 5th periodic verification of the project activity and no FAR was raised from validation and previous verification.

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 is not registered with any GHG mechanism except VERRA. The project activity is not availing any other form of credits & also REC India benefits and the same can be confirmed from publicly available link of REC generators.

Web-link: https://www.recregistryindia.nic.in/index.php/general/publics/registered_regens

Further, the project proponent has provided declaration/^{12/} undertaking for not availing other forms of environmental credit including REC for the same crediting period under consideration.

3.2 Methodology Deviations

This section is not applicable for present verification as no methodology deviation sought during this verification

3.3 Project Description Deviations

Following deviations are approved during previous verification: -

Deviation-1: During the time of registration, project capacity for Bugula-II is registered as 10.4 MW which is a typo-error. The actual capacity for this site is 10.8 MW. This deviation doesn't impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario.

The actual capacity is verified with commissioning certificates provided to VVB as well as PPAs signed for this project activity and deviation regarding the same has been approved during the previous monitoring period.

Following deviations are requested during current verification: -

Deviation-2: For Nidhi site the PPA is only for 23.8 MW and 39.1 MW. The electricity generated from rest 27.1 MW is sold through open access. the project was registered assuming the electricity will be sold by signing the long-term PPA for 25 years at a fixed Tariff of Rs. 5.74/kWh; however long-term PPA could not be structured and PP had to opt for Open Access and sell the electricity to Third Party at varied Tariff rate and for a short-term PPA. However, the highest tariff rate for 27.1 MW site is less than the registered tariff rate and does not affect the additionality of the project.

Assessment team has checked the monthly invoices for the component of 27.1 MW of 90.10 MW for which long term PPA could not be signed and PP is selling electricity through short term PPA under open access to third parties. Assessment team found that highest unit rate achieved during the monitoring period is 5.14 INR/Unit which is found well below PPA rate which is 5.74 INR/Unit. Thus, assessment team found that the deviation from long term PPA to Short term open access does not impact additionality and deviation accepted by assessment team. Further, FAR have been also added to verify the monthly unit rate achieved by PP under short term PPA for 27.1 MW Nidhi site.

Deviation 3: For Bhesada site, the JMR is issued for 50.40 MW wind power project but the site in this project activity includes only 8.4 MW, hence the export and import values are apportioned for 8.4 MW using apportioning ratio of 0.17.

Assessment team has checked the Daily Generation Records (DGR) which was used to calculate apportioning ratio to arrive generation of 8.4 MW capacity out of total 50.40 MW. Thus, assessment team concluded that apportioning was done correctly & conservatively and accepted by VVB.

Above mentioned both requested deviations do not affect project design and additionality of project activity. Hence both deviations are accepted by VVB.

3.4 Grouped Project

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

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the Site visit, it was concluded that the project is implemented as per the requirement of the approved VCS PD & MR/⁴/ and approved monitoring plan, during the current monitoring period; it was observed that no unforeseen incident/event evolved which can impact the operation of the project activity which was verified from breakdown records. The project undergone continuous operation and only scheduled maintenance is observed as per the manufactures specification which is acceptable to the assessment team and evident from JMRs.

The project activity is a 493.9 MW wind power project and locations of the same are confirmed by the verification team during the Site visit. The Project activity consists of 253 Wind Turbine Generators (WTGs) of different individual capacity mentioned in Monitoring report. Detail related SPVs and installed capacity at each location are provided in section 1.4 above. All SPVs are the subsidiary companies of Mytrah Group.

Verification team confirmed from the VCS approved joint PD & MR/⁴/ and from previous verification reports/¹⁷/ that the location of the project activity including the coordinates is same as mentioned in the VCS approved VCS PD & MR/⁴/.

Assessment team checked the commissioning certificate/¹/ and confirmed that the dates of Commission for the Wind plants are correct. Assessment team also conform during site visit with the PPs representatives that there is no change in project design and the project is implemented as per the description provided in the VCS PD & MR. The project boundary includes the electricity generation equipment at the project site, substation and the regional grid (now Indian grid). Connected substations mentioned above are verified during site visit.

Assessment team also checked the technical details of the Wind plants installed onsite from documents submitted by PP and previous verification reports. The assessment team confirmed that there is no proposed or actual change to the project design during this monitoring period. The project design as mentioned in the VCS approved PD is implemented and thus the same is acceptable to the assessment team. All required monitoring equipment's and procedures as mentioned in the VCS approved PD & MR are available and implemented in an appropriate manner.

The organisational role and responsibility as mentioned in the VCS approved PD& MR/⁴/ is followed onsite confirmed during site visit. All the emergency preparedness as mentioned in the approved PD & MR/⁴/ is followed onsite and no discrepancies were found regarding the same. Meters are calibrated as per calibration frequency in VCS approved VCS PD/⁴/. All the emergency preparedness as mentioned in the VCS approved VCS PD/⁴/ is followed onsite and no discrepancies were found regarding the same. Thus, completeness of the monitoring plan

confirmed and there are no any material discrepancies between the actual monitoring system and the plan provided in the VCS approved joint PD& MR.

CL 01, CAR 01 & CAR 02 were raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CARs and CLs.

Assessment team confirms following during the verification Site visit:

1. Start date of the project activity is 30-December-2015 as mentioned in the VCS approved joint PD & MR^{/4/}.
2. An undertaking letter dated 09-May-2022 has been submitted by PP for no double counting with any other GHG program. PP also has given a written declaration that project has not claimed other form of GHG credit for the concerned monitoring period.
3. Assessment team confirms that this is the 5th monitoring under VCS and covers the activity from 01-June-2021 to 28-February-2022 (inclusive of both dates). The project activity adopts renewable crediting period of 10 years period and can be renewed for maximum 2 times. 30-December-2015 is the start date and 29-December-2025 will be end date of the crediting period^{/6/}.

The GHG credits from 01-June-2021 to 28-February-2022 will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the “No Double Counting”^{/12/}.

4. Assessment team checked and found that the Project proponent of the project activity mentioned in Section 1.3 of monitoring report is correct^{/6/}:
5. Assessment team also checked the details of other entity mentioned in Section 1.3 of monitoring report and found correct^{/6/}.
6. The quantified emission reduction calculation for the monitoring period is correct and conservative. Assessment team also compared actual VER with the estimated VER and found that the actual VER is 588,760 tCO₂e which is 15% lower than the estimated emission reductions 689,079 tCO₂e (921,296 tCO₂e/365 days x 273 days) during this monitoring period which is due to unfavourable climatic conditions, which are not within the control of the project participant. Hence accepted^{/6/}.

Further, in line with para 3.16.1, “The project proponent must demonstrate that a project contributes to at least three SDGs by the end of the first monitoring period, and in each subsequent monitoring period.” As per the provision of implementation deadline, “Projects registered before 20 January 2023 shall demonstrate contributions to at least three SDGs by 20 January 2025”^{/12/}. However, PP have provided the information on the SDG contributions by the project activity for SDGs:

1. SDG 7.2.1: Renewable energy share in the total final energy consumption.
2. SDG 8.6.1: Proportion of youth (aged 15-24) not in education, employment or training
3. SDG 13.0: tonnes of greenhouse gas emissions avoided or removed.

VVB have assessed the SDG 7.2.1, 8.6.1 and SDG 13.0 and supporting documents ^{/11/,/14//,21/} shared by PP and found values correct.

4.2 Safeguards

4.2.1 No Net Harm

No potential environment or socio-economic matter was found during the documents review of VCS PD/4/ and grievance register etc. The project is renewable energy project and thus no negative impact observed due to project activity.

The project activity promotes environmental and socio-economic well-being as it results in zero GHG emissions due to installation and operation of clean, renewable energy technology for electricity generation. 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/Wind power project activity operations do not result in direct air pollution, noise pollution. Moreover, also as per the Central Pollution Control Board of India notification³ wind/wind project falls under White Category and are practically non-polluting.

4.2.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration. For ongoing stakeholder’s communication, PP have maintained grievance register/^{15/} at the site office. 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, ver. 4.2/^{10/} and appropriate actions taken time to time by PP.

Assessment team checked the grievance register/^{15/} 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.

4.3 AFOLU-Specific Safeguards

This section is not applicable as this project activity is a non-AFOLU project activity.

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 VCS PD. 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 & MR/4/ & MR.
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² <https://smartnet.niua.org/sites/default/files/resources/report-on-developmental-impacts-of-RE.pdf>

³ http://envfor.nic.in/sites/default/files/Latest_118_Final_Directions.pdf

Findings	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.
Conclusion	Baseline Emissions: The baseline Emissions for a given year is calculated by multiplying the energy baseline with the grid emission factor. The grid in this case is 'Indian Grid' Formula Used: - $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ Where , BE_y = Baseline Emissions in year y, tCO₂ $EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM 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" (t CO₂/MWh) Ex-ante parameters: The baseline emission factors are taken ex-ante in line with the VCS approved VCS PD & MR/4/ as well as cross checked with section validation report and found correct^{4/}. The baseline emission factors are calculated by the Central Electricity Authority, Govt. of India. The values of OM and BM are sourced from the CEA CO₂ Baseline database version 12. The data Combined margin CO₂ emission factor ($EF_{grid,CM,y}$) is equal to 0.9653 tCO₂/MWh. The calculation approach was in line with the VCS PD. Values are as follows: $EF_{grid,OM,y} = 0.9843 \text{ tCO}_2/\text{MWh}$ $EF_{grid,BM,y} = 0.9083 \text{ tCO}_2/\text{MWh}$ $EF_{grid,CM,y} = 0.9653 \text{ tCO}_2/\text{MWh}$ Ex-post parameter: $EG_{PJ,y}$ = Quantity of net electricity generation supplied by the project (Wind) plant/unit to the grid in year y = 609,924 MWh The verification team has checked the entire monthly Credit note/ JMR/Form B reports^{11/} from respective state electricity board for net electricity generated & supplied to the grid and crosschecked same with the invoices^{11/} raised by PP towards State Utilities for the monitoring period. $EG_{PJ,y}$ is taken as cumulated amount of net electricity generated by all WTGs installed in the project activity. All values are found correct. All the parameters are monitored and recorded as per the monitoring plan in the MR. However; PPs have apportioned the values for the first and last month of the monitoring period where dates are not

	matching with JMR cycle in Pottipadu site (39.9 MW & 65.1 MW) & Aspari site. Apportioning found appropriate and conservative. The details of monitoring equipment installed at each SVP are given in appendix 05 below. The calculations/measurement of net electricity supplied to grid is under purview of state electricity board and the PP/Project activity Instance owner has no role on it. PP/Project activity Instance owner gets value of net electricity supplied to grid and hence this parameter is mentioned as a part of monitoring plan The net electricity supplied the grid by the project activity during the monitoring period is 609,924 MWh. The generation values have been cross checked with the invoices and were found to be consistent. In order to minimize the manual transposition errors between data sets and ER sheet, verification team checked all JMR (Joint Meter Report) sheets and the invoices for the complete monitoring period & found correct and thus the assessment team confirms that the ER values are correct and conservative. Further, as per the interview with onsite personnel, Verification team found that all the personnel included in the monitoring team are well trained to monitor and collect data and thus, the risk associated with Human error is minimized. All relevant monitoring parameters have been verified with regard to the appropriateness of the applied measurement/determination method, the correctness of the values applied for ER calculation^{7/}, the accuracy, and applied QA/QC measures. Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors. BE_y (baseline emissions), tCO₂e $BE_y = 609,924 \text{ MWh} \times 0.9653 \text{ tCO}_2\text{e/MWh}$ $= 588,760 \text{ tCO}_2\text{e (round down values)}$ As per applied methodology ACM0002, version 17.0, the VCS joint PD & MR, project emission is considered zero as the project activity involved Wind power generation^{4/}. PE_y = As per ACM0002 – Version 17.0, all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected. As the project activity involved wind power project emissions (<i>PE_y</i>) are taken as zero. Leakage: As per ACM0002 – Version 17.0, Leakage emissions are not considered for the project activity^{20/}. Hence, $ER_y = BE_y - PE_y$ $= 588,760 - 0$
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	= 588,760 tCO₂e (round down values) Verification team confirms that the monitoring has been carried out in accordance with the monitoring plan contained in the VCS approved joint PD & MR/^{4/}. Assessment team confirmed that the GHG emission reductions and removals have been quantified correctly in line with the VCS approved VCS joint PD & MR/^{4/}.
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4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	The verification team checked the Calibration details of the monitoring meters with the calibration certificates.
Findings	CAR 04 were raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.
Conclusion	The verification team checked the break down log for the monitoring period/^{13/}. During the remote verification audit and the feeder wise location of the wind plants is also checked. The metering arrangement is bi-directional energy meters (Main and Check) of accuracy class 0.2s at the State Electricity Board (SEBI) sub-station. These electricity meters are being used by state electricity board for Share certificate statements/JMR. These meters record several parameters including electricity exported & imported. These electricity meters are being used by state electricity board for monthly generation reports/^{11/}. The details like make, Serial number, Calibration dates etc./^{5/}. are provided in appendix 05 of this report. Verification team confirms that all the energy meters (main and check meter) installed at the substation are of accuracy class of 0.2s and are calibrated as per the calibration frequency mentioned in monitoring plan in VCS PD & MR/^{4/} i.e. The calibration frequency of meters is once in 5 years/^{5/}. No delayed calibrations were observed in the project activity for this monitoring period. All the meters are of same accuracy class i.e., 0.2s as per the requirement of the VCS approved PD & MR. Interview during Site visit with O&M personnel also confirms the same/^{5/}. The calculation of net electricity supplied to grid is under purview of state electricity board and PP does not have control on it. Calibration details of the monitoring meters checked with calibration certificates submitted by PP and found that calibration frequency of 5 years is complied/^{5/}. Thus, no delayed calibration is observed and thus the same is found appropriate. The break down log is checked and there is no major breakdown during the monitoring period. No unforced error observed. No sampling procedure applied for monitoring of the data parameter and entire documents were checked by the assessment team to arrive at positive verification conclusions. The

	monitoring plan is followed at the project site. The monitoring meters were calibrated in line with the registered monitoring plan and there was no delay in calibration observed. Thus, assessment team concluded that the evidences are sufficient in quantity, and appropriate for the quality, to determine the GHG reductions and removals. Assessment team checked the calculation of estimated VER vs. Actual VER. As per the VCS approved PD & MR/4/ the amount of VERs annually is 921,296 tCO₂e. The days involved in present monitoring period are 273. Therefore, on pro-rata basis, the estimated VERs for the monitoring period is 689,079 tCO₂e. Actual VERs obtained for the monitoring period is 588,760 tCO₂e and thus the actual VER is 15% lower than the estimated VER. This variation is majorly due to unfavourable climatic conditions, which are not within the control of the project participant. Hence accepted. Hence confirms that decrease in VER by 15% in this monitoring period is acceptable.
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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	
NA	NA	NA	NA	NA

5 VERIFICATION CONCLUSION

Applus+ Certification has been engaged^{/02/} by “Infinite Environmental Solutions” to perform the 5th periodical verification of the “Bundled Wind Power Project by Mytrah Group”.

The project participants are responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project’s monitoring plan in the VCS approved PD & MR^{/4/} and the applied methodology ACM0002 version 17.0^{/20/}

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. 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. Further, 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 document verifications. The entire documents checked/Power plant verification conducted to arrive at positive verification conclusions. The verification team 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 VCS approved joint PD & MR^{/4/};
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.
- A Reasonable Level of assurance was achieved as planned, during verification process.
- Verification period: 01-June-2021 to 28-February-2022 (inclusive of both days).

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

Year	Baseline emissions or removals (tCO ₂ e) ⁴	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01-June 2021 to 31-December-2021	507,900	0	0	507,900
01-January-2022 to 28-February 2022	80,860	0	0	80,860
Total	588,760	0	0	588,760

⁴Rounddown values

APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED (VERIFICATION)

No.	Author	Title	References to the document	Provider
1.	Respective State Utility	Commissioning certificates of the Wind turbine generators installed in Madhya Pradesh (MP), Rajasthan (RJ), Andhra Pradesh (AP), Telangana (TG) States of India	-	PP
2.	Applus	Contract of the project participant with the DOE. Ref. No. A+SH_SYST_TQC_VCS_VER_6022	23-March-2022	PP
3.	NA	The operational lifetime of the project activity from the manufacturer (Technical specifications)	Manufacturer technical specifications	PP
4.	NA	VCS Approved joint PD & MR https://registry.verra.org/app/projectDetail/VCS/1728	10-February-2016	PP
5.	Respective state authority	Calibration Certificates of installed monitoring energy meters	-	PP
6.	NA	MR version 01 MR version 02 MR Version 03 (Verra Review-I)	15-May-2022 25-May-2022 18-October-2022	PP
7.	NA	Emission reduction sheet: - 1. version 01 2. version 02 3. Version 03 (Verra Review-I)	15-May-2022 25-May-2022 22-October-2022	PP
8.	PP	O & M Agreements	-	PP
9.	SPVs and state board	Power Purchase Agreements	-	PP
10.	NA	Tools/ guidelines used in the project activity - Glossary of CDM terms version 07 - VCS standard Version 4.2 - VCS Program Guide 4.1 - VCS verification report template version 4.1	UNFCCC CDM/VCS web site	UNFCCC
11.	State Utility for JMR, PP for invoice	Monthly statement- JMR & invoices for the complete monitoring period	-	PP
12.	PP	Declaration regarding no participation in other GHG program for the concerned monitoring period	09-May-2022	PP

No.	Author	Title	References to the document	Provider
13.	PP	Breakdown details for the monitoring period	-	PP
14.	PP	Employment records for plant persons	-	PP
15.	PP6	Grievance Register maintained at site	-	PP
16.	UNFCCC	CDM validation and verification standard for project activities, Version 03.0	-	UNFCCC
17.	Applus	Validation report. Ref. No. 5117	Version 02 21-December-2017	
18.	KBS	Previous Verification Report, Report ID: VCS.21.VER.027 (I)	14-October-2021	PP
19.	PP	Breakdown details of the power plant	-	PP
20.	UNFCCC	ACM0002 methodology	version 17.0	UNFCCC
21.	PP	Declaration for number of employments (temporary & contractual) provided and trainings conducted during the monitoring period	-	PP

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

Table 1. Remaining FAR from validation and/or previous verification

FAR ID	XX	Section no.	E.2	Date : DD/MM/YYYY
Description of FAR				
There is no FAR from the validation/previous verification of the project activity				
Project participant response				Date : DD/MM/YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD/MM/YYYY
NA				

Table 2. CL from this verification

CI ID	01	Section no.	4.1	Date: 20-May-2022
Description of CL				

In Emission Reduction sheet, PP has apportioned the data of energy exported and imported by 8.4 MW Project out of 50.40 MW wind power project located at Bhesada site of Rajasthan state of India. However, Procedure utilized to calculate the same is missing in the registered PD. Thus, PP is requested to clarify the same.	
Project participant response	Date: 25-May-2022
The following deviation is requested in current monitoring period- For Bhesada site, the JMR is issued for 50.40 MW wind power project but the site in this project activity includes only 8.4 MW, hence the export and import values are apportioned for 8.4 MW.	
Documentation provided by project participant	
Revised MR Version 2.0	
DOE assessment	Date: DD-Month-2022
Regarding procedure of apportioning of data exported and imported by 8.4 MW project out of 50.4 MW, PP has requested deviation in section 3.2.2 of revised MR. Same is found acceptable as it does not affect project additionality and design. Thus accepted by VVB. CAR is closed.	

Table 3. CAR from this verification:

Project Implementation Status

CAR ID	01	Section no.	4.1	Date: 20-May-2022
Description of CAR				
During review of monitoring report following inconsistencies observed:				
- Editorial mistakes are observed in the MR submitted by PP. Thus, PP requested to submit corrected MR as per comments provided in monitoring report. Kindly submit. - As per VCS PD & MR/4/ version 03 under section 1.3 complete project proponent details found missing under section 1.3 of monitoring report. Thus, corrective action sought				
Project participant response				Date: 25-May-2022
- This has been corrected in revised MR version 02. - This has been corrected in revised MR version 02				
Documentation provided by project participant				
Revised MR Version 02				
DOE assessment				Date: 25-May-2022
- PP has rectified editorial mistakes observed throughout the MR. Same is found correct thus accepted and CAR is closed. - In revised MR, PP has included all PP's details involved in project activity. Same is found inline with the registered PD & MR. thus accepted and CAR is closed.				

CAR ID	02	Section no.	4.1	Date: 20-May-2022
Description of CAR				
Section 1.1 of monitoring report is found not inline with the VCS MR template guideline version V 4.1. Details related to the date of commissioning / operations found missing. However, document related to same submitted to VVB team. Thus, corrective action sought.				
Project participant response				Date: 25-May-2022
The section 1.1 is corrected as per the template guideline V.4.1. and the date of commissioning has been included				
Documentation provided by project participant				
Revised MR Version 2.0				
DOE assessment				Date: 25-May-2022

PP has now provided details related to commissioning with dated under section 1.1 of revised MR. found inline with the copies of commissioning certificates issued by respective state utility. Thus accepted and **CAR is closed**.

Accuracy of GHG Emission Reduction and Removal Calculations

CAR ID	03	Section no.	4.4	Date: 20-May-2022
Description of CAR				
PP has submitted Emission Reduction sheet to assessment team. For verification of same submitted the JMRs and sales invoices relevant to current monitoring period of project activity. However, during assessment team found JMR copies are found inoperable or corrupted for Pottipadu site and values of various sites for electricity export import value for few months are not inline with submitted JMR copies for same comments are provided in ER sheet. Thus, corrective action sought.				
Project participant response				Date: 25-May-2022
The Emission reduction sheet has been corrected as per the JMRs and the JMR for pottipadu site is submitted herewith.				
Documentation provided by project participant				
1.Revised ER sheet 2.JMR and Invoice for Pottipadu				
DOE assessment				Date: 25-May-2022
PP has submitted revised emission reduction and operable copies of JMRs for Pottipadu site. Same is found correct. Thus, accepted and CAR is closed .				

Quality of Evidence to Determine GHG Emission Reduction and Removals

CAR ID	04	Section no.	4.5	Date: 20-May-2022
Description of CAR				
In Appendix 1 of monitoring report, PP has mentioned details related to monitoring meters and its calibration relevant to the current monitoring period. However, during verify the same with copy of Joint metering report, Meter type not found inline. Thus, corrective action sought.				
Project participant response				Date: 25-May-2022
Meter type is corrected in revised MR				
Documentation provided by project participant				
Revised MR version 2.0				
DOE assessment				Date: 25-May-2022
PP has now rectified the calibration details mentioned in appendix 1 of revised MR. Same is found inline with respective calibration certificates. Thus, accepted and CAR is closed .				

Table 4. FAR from this verification

FAR ID	01	Section No.	4.4	Date : 17-October-2022
Description of FAR				
Verifying VVB requested to crosscheck highest unit rate achieved for 27.1 MW Nidhi site component against unit rate of 5.74 INR/KWh as PPA signed for rest of the capacity during each verification. If unit rate under short term PPA for 27.1 MW found higher than 5.74 INR/KWh additionality shall be re-addressed for Nidhi site.				
Project participant response				Date : DD-Month-YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD-Month-YYYY
NA				

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	TAKARKHEDE	ATUL	TQC-Outsourced entity	Yes	Yes	Yes	Yes
2.	Auditor-in-Trainee	OR	Shrivastava	Ishan	TQC-Outsourced entity	Yes	Yes	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) / Technical Expert (TE)	EI	Shen	Simon	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustin	Applus+ Certification

Short CVs of the Team:

- Dr. Atul Takarkhede** is Ph.D. (Environmental Sciences) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical papers related to environmental sciences. He counts with more than 11 years of experience in field of Environmental Auditing, consulting and accreditation. He is an expert in ISO 9001-14001, CO2/GHG Reporting, Carbon Foot Print, Energy, Water and Waste Management reporting for organizations' environmental performance. His professional portfolio is mainly related with carrying out EIA, conducting QA/QC of EIA Reports; conducting environmental/water audits; NABET requirements appliance, functional area expert in Water Pollution & Solid & Hazardous Waste management among others. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. Currently he is associated with True Quality Certifications Private Limited and empanelled with Applus+ Certification to carry out GHG audits in the aforementioned schemes.

2. **Mr. Ishan Shrivastava**, has done bachelor of engineering in Mechanical Engineering from Rajiv Gandhi Proudhyogiki Vishwavidyalaya, India. He has a year of working experience in India's one of the Maharatna Company i.e., GAIL (India) Limited in the area of Natural Gas, Energy & Environment. Currently, he is working in True Quality Certifications Pvt. Ltd. (An outsource entity for LGAI Technological Center, S.A. (Spain) "Applus+ Certification") since 2019 and has been involved in Audit teams for Verifications of Project Activities (Renewable and non-Renewable projects) under CDM/VCS/GS4GG programs.
3. **Mr. Simon Shen** (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD for 3.5 years before he joined Applus+. Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.

APPENDIX 4: ABBREVIATIONS

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction(s)
CEA	Central Electricity Authority
CL	Clarification request
CM	Combined Margin
CMS	Central Monitoring system
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming potential
PP	Project Participant

APPENDIX 5: CALIBRATION DETAILS

The main meter and Check meter details of Nazeerabad Site are as follows:

	Main meter	Check meter
Make	L & T	L & T
Meter no	0018128682	0018128666
Accuracy class	0.2 s	0.2s
Calibration date	10-March-2021	10-March-2021
Calibration Due date	09-March-2026	09-March-2026
Calibration Compliance	No delay has been observed	

The Main meter and Check meter details of Pottipadu Site are as follows:

For 65.1 MW			
PPD-06 (21 MW)			
	Main meter	Check meter	Backup meter
Make	Secure	Secure	Secure
Meter no	XC559930	XC559931	XC559924
Accuracy class	0.2 s	0.2s	0.2s
Calibration date	24-December-2020	24-December-2020	24-December-2020
Calibration Due date	23-December-2025	23-December-2025	23-December-2025
Calibration Compliance	No delay has been observed		

PPD-40			
	Main meter	Check meter	Backup meter
Make	Secure	Secure	Secure
Meter no	XC559921	XC559922	XC559923
Accuracy class	0.2 s	0.2s	0.2s
Calibration date	24-December-2020	24-December-2020	24-December-2020
Calibration Due date	23-December-2025	23-December-2025	23-December-2025
Calibration Compliance	No delay has been observed		

PPD-35			
	Main meter	Check meter	Backup meter
Make	Secure	Secure	Secure
Meter no	XC559932	XC559933	XC559934

Accuracy class	0.2 s	0.2s	0.2s
Calibration date	21-December-2020	21-December-2020	21-December-2020
Calibration Due date	20-December-2025	20-December-2025	20-December-2025
Calibration Compliance	No delay has been observed		

PPD-39.9 MW			
Feeder 01			
	Main meter	Check meter	Backup meter
Make	Secure	Secure	Secure
Meter no	13720861	13720862	13720863
Accuracy class	0.2 s	0.2s	0.2s
Calibration date	21-December-2020	21-December-2020	21-December-2020
Calibration Due date	20-December-2025	20-December-2025	20-December-2025
Calibration Compliance	No delay has been observed		

Feeder 02			
	Main meter	Check meter	Backup meter
Make	Secure	Secure	Secure
Meter no	13720897	13720868	13720872
Accuracy class	0.2 s	0.2s	0.2s
Calibration date	21-December-2020	21-December-2020	21-December-2020
Calibration Due date	20-December-2025	20-December-2025	20-December-2025
Calibration Compliance	No delay has been observed		

The Main meter and Check meter details of Nidhi Site are as follows:

Feeder 09		
	Main meter	Check meter
Make	Secure	Secure
Meter no	RJB96159	RJB96160
Accuracy class	0.2 s	0.2s
Calibration date	10-April-2021	10-April-2021
Calibration Due date	09-April-2026	09-April-2026
Calibration Compliance	No delay has been observed	

Feeder 10

	Main meter	Check meter
Make	Secure	Secure
Meter no	RJB96157	RJB96158
Accuracy class	0.2 s	0.2s
Calibration date	10-April-2021	10-April-2021
Calibration Due date	09-April-2026	09-April-2026
Calibration Compliance	No delay has been observed	

Meters are replaced on 16/03/2020. The meter change certificate is submitted herewith.

The Main meter and Check meter details of Bhesada Site are as follows:

Feeder 2		
	Main meter	Check meter
Make	Secure	Secure
Meter no	RJB 78188	RJB 78189
Accuracy class	0.2 s	0.2s
Calibration date	21-February-2021	21-February-2021
Calibration Due date	20-February-2026	20-February-2026
Calibration Compliance	No delay has been observed	

Feeder 03		
	Main meter	Check meter
Make	Secure	Secure
Meter no	RJB 78194	RJB 78200
Accuracy class	0.2 s	0.2s
Calibration date	21-February-2021	21-February-2021
Calibration Due date	20-February-2026	20-February-2026
Calibration Compliance	No delay has been observed	

Feeder 04		
	Main meter	Check meter
Make	Secure	Secure
Meter no	RJB 78201	RJB 78203
Accuracy class	0.2 s	0.2s
Calibration date	21-February-2021	21-February-2021
Calibration Due date	20-February-2026	20-February-2026
Calibration Compliance	No delay has been observed	

The Main meter and Check meter details of Aspari Site are as follows:

Apsari-I		
	Main meter	Check meter
Make	Secure	Secure

Meter no	APX01010	APX01011
Accuracy class	0.2 s	0.2s
Calibration date	18-December-2020	18-December-2020
Calibration Due date	17-December-2025	17-December-2025
Calibration Compliance	No delay has been observed	

Apsari-II		
	Main meter	Check meter
Make	Secure	Secure
Meter no	APX01012	APX01013
Accuracy class	0.2 s	0.2s
Calibration date	18-December-2020	18-December-2020
Calibration Due date	17-December-2025	17-December-2025
Calibration Compliance	No delay has been observed	

The Main meter and Check meter details of Burgulla Site are as follows:

Burgulla-II		
	Main meter	Check meter
Make	Secure	Secure
Meter no	APX017021	APX01022
Accuracy class	0.2 s	0.2s
Calibration date	22-December-2020	22-December-2020
Calibration Due date	21-December-2025	21-December-2025
Calibration Compliance	No delay has been observed	

The Main meter and Check meter details of Nipaniya Site are as follows:

Nipaniya		
	Main meter	Check meter
Make	Secure	Secure
Meter no	MPC70479	MPC70480
Accuracy class	0.2 s	0.2s
Previous Calibration date	18-December-2020	18-December-2020
Calibration Due date	17-December-2025	17-December-2025
Calibration date	18-June-2021	18-June-2021
Calibration Due date	17-June-2026	17-June-2026
Calibration Compliance	No delay has been observed	

Nipaniya

	Main meter	Check meter
Make	Secure	Secure
Meter no	MPC70481	MPC70482
Accuracy class	0.2 s	0.2s
Previous Calibration date	18-December-2020	18-December-2020
Calibration Due date	17-December-2025	17-December-2025
Calibration date	18-June-2021	18-June-2021
Calibration Due date	17-June-2021	17-June-2021
Calibration Compliance	No delay has been observed	

During site visit & review of above-mentioned calibration details. VVB team observed no delay in scheduled calibration of installed monitoring meters and all are correctly calibrated throughout monitoring period by authorized entities of state utility board. Thus, VVB found it correct.