



WIND POWER PROJECT BY GREEN INFRA WIND POWER GENERATION LIMITED



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Summary:

Verification purpose: The project undertaken by Green Infra Wind Power Generation Limited, India was registered with VCS on 12-October-2020¹. The project activity envisages implementation of 36 MW wind power project consisting of 18 Wind Electric Generators (WTGs) of individual capacity 2 MW, at Harappanahalli Taluk, Davanagere district, Karnataka, India by M/s Green Infra Wind Power Generation Limited. The electricity generated is exported to the Indian- grid. The project activity helps to reduce carbon intensity.

The project activity helps to reduce the supply demand gap in the state and also helps in contributing to the sustainable development by using wind energy as the source of power generation and reduction of GHG Emissions. In the project site, there are other wind projects owned by other customers connected to the same substation. There is an apportioning procedure which is approved by the state nodal agency for apportioning the electricity to each and every customer. The project uses Gamesa's wind energy technology. The project activity implements G114 model 2.0 MW WTGs.

Start date of the project activity is 12-August-2016. An undertaking has been submitted by PP for double counting confirming that no GHG reduction will be claimed in any other GHG mechanism for current monitoring period. Project activity undergoes continued operation.

This is the 3rd monitoring report under VCS covers activity from 01-August-2021 to 31-July-2022 (inclusive both days). During the Current Monitoring Period the project activity has supplied 73,890 MWh of electricity, and thus contributing to the GHG reductions of 71,325 tCO₂e.

¹ <https://registry.verra.org/app/projectDetail/VCS/1776>

VCS crediting period is of 10 years. The start date of crediting period is 12-August-2016 and 11-August-2026 is the end date of the crediting period.

A risk-based approach has been followed to perform this verification activity. In the course of verification, 05 Corrective Action requests (CAR), 00 Clarification Requests (CLs) and 00 Forward action requests (FARs) were raised and successfully closed. The review of the Monitoring report and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and PP have provided VVB with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred to as Applus+ Certification) has been appointed by “M/s Green Infra Wind Power Generation Limited.” to perform the verification of the “Wind Power Project by Green Infra Wind Power Generation Limited” under VCS standard 4.3 and VCS Program guide 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 applied methodologies “ACM0002 (version 18.1) - Grid-connected electricity generation from renewable sources The project's compliance with the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS program guide 4.2 and standard, version 4.3.

- CDM Validation and Verification Standard for project activities, version 03.0
- CDM Project Standard for project activities, version 03.0
- VCS standard version 4.3
- VCS program guide version 4.2

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

The scope of the verification is the independent and objective review of the monitoring report (MR). The MR is reviewed against the relevant criteria (see above) and decisions by the CDM Executive Board and VCS executive board, including the approved baseline and monitoring methodology. The verification was based on the guidance given in the CDM Validation and Verification Standard for the project activities, version 03.0, review against registered VCS-PD and Final Validation report, CDM Project Standard for project activities, version 03.0 and VCS program guide, version 4.2 and standard version 4.3.

The assessment team has employed a risk-based approach to assess the completeness and accuracy of the claims and conservativeness of the assumptions in the MR. The main focus of the assessment team is to identify the significant risks for the project implementation and the generation of VCUs. 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 remote audit or document verifications. The entire documents checked/plant verification conducted to arrive at positive verification conclusions.

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1. INTRODUCTION

1.1 Objective

LGAI Technological Center S.A. (Hereinafter referred as Applus+ Certification) has been appointed by “Green Infra Wind Power Generation Limited” to perform the 3rd periodic verification of the project entitled “Wind Power Project by Green Infra Wind Power Generation Limited” under VCS standard version 4.3 and program guide 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 plan is assessed against applied methodologies – ACM0002 (version 18.1) “Grid-connected electricity generation from renewable sources”.

The project’s compliance with the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS program guide, version 4.2 and standard version 4.3.

CDM Validation and Verification Standard for project activities, version 03.0

CDM Project Standard for project activities, version 03.0

CDM project cycle procedure for project activities, version 03.0

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

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR) prepared as per the registered VCS-PD and registered approved methodologies ACM0002 version 18.1. The MR is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board and VCS standard, version 4.3 and VCS Program guide version 4.2, including the approved baseline and monitoring methodologies applied. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 03.0, CDM Project Standard for project activities, version 03.0, and VCS program guide, version 4.2 and standard version 4.3.

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

1.3 Level of Assurance

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

1.4 Summary Description of the Project

The project undertaken by Green Infra Wind Power Generation Limited and implemented 36 MW wind power project consisting of 18 Wind Electric Generators (WTGs) of individual capacity of 2.0 MW at Harappanahalli Taluk, Davanagere district, Karnataka.

The purpose of the project activity is to export the generated electricity to the Indian grid. The project activity helps to reduce the supply demand gap in the state and also helps in contributing to the sustainable development by using wind energy as the source of power generation and reduction of GHG Emissions.

At the project site, there are other wind projects owned by other customers connected to the same substation. There is an apportioning procedure which is approved by the state nodal agency for apportioning the electricity to each and every customer. The project uses Gamesa's wind energy technology. The project activity implements G114 model 2.0MW WTGs.

During the Current Monitoring Period from 01-August-2021 to 31-July-2021 (First and last date included) the project activity has supplied 73,890 MWh of electricity, and thus contributing to the GHG reductions 71,325 tCO_{2e}.

2. VERIFICATION PROCESS

2.1 Method and Criteria

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

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

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

1. Desk review of the monitoring report against the registered VCS PD
2. Follow-up interviews with the project participants
3. Resolution of outstanding issues and the issuance of the final verification report and opinion.

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

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

Appointment of the assessment team

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

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

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

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

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

Name	Role	SS coverage	TA coverage	Financial aspect	Host Country experience
Mr. Pankaj Kumar	LA/TE	Yes	Yes	Yes	Yes

Mr. Anil Soyler	TR	Yes	Yes	Yes	NA
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The complete list of CVs is included as Appendix 3 of this report.

Document review

The Monitoring Report version 3 submitted by the PP was reviewed against the approved methodology, registered VCS PD, 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.

Follow-up interviews

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

Resolution of Clarification and Corrective Action Request

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

The final MR Version 05 submitted by PP on 17-November-2022 serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The 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 final verification report and the checklist have to undergo an internal quality control by the technical review committee, i.e., each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one to avoid any conflict of Interest.

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

2.2 Document Review

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

2.3 Interviews

A remote audit was conducted for the project activity on 13-August-2022. Remote audit was conducted due to ongoing COVID-19 pandemic situation in the entire country of India. Taking into account the prevalent conditions of COVID-19 pandemic, VVB decided to skip the onsite visit to avoid any potential health risks. Moreover, The VCS Program does not explicitly mandate remote audits as part of the validation and verification process, only that VVBs must achieve a reasonable level of assurance on all validations and verifications (as per Section 4.1.2 of the VCS Standard, version 4.3)

The VVB has taken alternative measures to reach reasonable level of assurance and conducted remote audit through video conferencing with site personal & consultant (refer section 2.3) with the PP representative. This is also in line with the COVID-19 travel guidance for projects of VERRA.

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

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

Organization	Name of Persons/Designation	Topics discussed	Team Member
Infinite Solutions	Mr. Jimmy Shah, Consultant	Project activity implementation Operation, Calibration, O & M practices, Energy Generation Records etc.	Pankaj Kumar
Green Infra Wind Power Generation Limited	Mr. G.L.Aditya	LSC mechanism Mechanical maintenance, Electrical maintenance Project description Invoicing practices Project activity implementation Operation, Calibration, O & M practices, Energy Generation Records etc.	
Local Stakeholder	Mr. K.S. Ganesh		

Organization	Name of Persons/Designation	Topics discussed	Team Member
Local Stakeholder	Mr. Sadanand G.	LSC mechanism Mechanical maintenance, Electrical maintenance Project description Invoicing practices MR, ER calculations etc.	
Locals Stakeholder	Mr. Raja Basawaraj		

During the remote audit, the PP representatives were questioned about the implementation of the project activity. Several topics like the verification of commissioning date of Wind Turbine Generators (WTGs) , the generation, recording, and monitoring of the data and the error accountability were discussed. Various documents like the Energy Records sheets, plant records, invoices, on-site Photographs includes meter specifications, key technical specifications of the major equipment provided to assessment team were verified on video conference call to establish the current status and the implementation of the Project Activity.

2.4 Site Inspections

Remote Audit: 13-August-2022				
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 is actually practised onsite. Also, assessment team checked any change in host country criteria which may affect the baseline of the project activity.	Remote audit (Video Conferencing)	13-August-2022	Pankaj Kumar

2.5 Resolution of Findings

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

transparency of the verification process, the concerns raised and responses given are summarized below in the appendix 2.

The final MR Version 05 submitted by project owner on 17-November-2022 serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

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

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

2.5.1 Forward Action Requests

This is 3rd periodic verification of the project activity and no FAR was raised from previous verification or validation /and during this verification process.

2.6 Eligibility for Validation Activities

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

3. VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project activity is registered under VCS (<https://registry.verra.org/app/projectDetail/VCS/1776>) with renewable crediting period of 10 years period which can be renewed for maximum 2 times with first crediting period from 12-August-2016 to 11-August-2026.

As per MR and undertaking provided, PP would not consider the credit monetization from any other mechanism for the current monitoring period. The undertaking is provided to confirm that there is no any double accounting for current monitoring period. VVB has checked the project databases of CDM, GS4GG, GCC and Indian REC mechanism to confirm that the project is not registered with other GHG program and confirmed the same.

3.2 Methodology Deviations

The project activity has applied correct methodologies which are as per the registered VCS PD and thus no deviation is sought regarding the methodology. The project complies with all the requirement of the methodology and thus deviation to the methodology is not a requirement for the present project activity.

3.3 Project Description Deviations

During the previous monitoring period (2nd verification), two project deviations were considered and are valid for the current monitoring period :-

1. Change from PD: Consideration of Transmission losses in calculating the Net electricity supplied to the grid by the project plant in a given month

Net Electricity (kWh) = Export, kWh – Import, kWh – Transmission losses,

Reason: Currently, state electricity distribution company (Discom) has started considering the “Transmission Loss” in Joint Meter Reading. Hence same has been considered and deducted from the Export value to arrive at the Net Electricity delivered from the project activity. This is not under the purview of PP as the State Electricity board is a government entity and solely responsible for the JMR preparation and any changes in the calculation of Net Electricity formulae. PP has no control over it and therefore deducted the transmission losses in line with the JMR prepared by the DISCOM during the current monitoring period. This deviation was approved in monitoring period of 01-July-2018 to 31-July-2020.

2. Change from PD: Registered VCS PD provides the latitude & longitude of Harapanahalli site only, the WTGs wise Latitude & Longitude is provided as below.

S.No	SCADA Label	Longitude	Latitude
1	HRG 01	75° 35' 2.4"N	14° 28' 51.6"E
2	HRG 02	75° 34' 30"N	14° 29' 6"E
3	HRG 03	75° 35' 31.2"N	14° 29' 31.2"E
4	HRG 04	75° 34' 55.2"N	14° 29' 2.4"E
5	HRG 05	75° 34' 30"N	14° 29' 31.2"E
6	HRG 06	75° 35' 31.2"N	14° 29' 27.6"E
7	HRG 07	75° 34' 55.2"N	14° 29' 56.4"E
8	HRG 08	75° 34' 26.4"N	14° 29' 27.6"E
9	HRG 09	75° 34' 15.6"N	14° 29' 31.2"E
10	HRG 10	75° 35' 34.8"N	14° 29' 6"E
11	HRG 11	75° 34' 22.8"N	14° 29' 27.6"E
12	HRG 12	75° 35' 45.6"N	14° 29' 34.8"E
13	HRG 14	75° 35' 31.2"N	14° 28' 55.2"E
14	HRG 15	75° 35' 31.2"N	14° 28' 58.8"E
15	HRG 16	75° 34' 30"N	14° 28' 55.2"E
16	HRG 17	75° 35' 6"N	14° 28' 55.2"E
17	HRG 18	75° 35' 34.8"N	14° 29' 34.8"E
18	HRG 19	75° 34' 51.6"N	14° 29' 31.2"E

Reason: This is to update the information in the VCS PD with respect to the location of individual WTG along with the Harapanahalli site latitude & Longitude.

These deviations were approved during the last monitoring period of 01-July-2018 to 31-July-2020 as confirmed from the verification report for the said monitoring period. Moreover, the above deviations do not impact the applicability of the methodology, additionally or the appropriateness of the baseline scenario, and the project remains in compliance with the applied methodology and hence accepted.

Deviation during current monitoring period

1. Change in the cross check mechanism –

As the electricity generated is used by the group captive consumers hence, the generation as per JMRs in a financial year can be crosschecked with all the invoices raised during that financial year. VVB checked the values in ER spreadsheet with the B-FORMS and cross checked the invoices and found the values were consistent and ER calculation for the current monitoring period is correct and conservative. VVB noted that Joint Meter Readings by DISCOM considers import and transmission losses for calculation of net energy export from the WTGs whereas, while deriving final electricity value for the end user, DISCOM further add wheeling and banking charges for the use of electricity grid. Hence a difference is observed in the net electricity value and the JMR value. VVB on the basis of host country expertise, notes that wheeling and banking charges are for the use of the grid and its non-applicability is accepted and it was confirmed that invoices are being raised over the value mentioned in the JMR raised by DISCOM and hence acceptable.

VVB concludes that this deviation does not impact the applicability of the methodology, additionally or the appropriateness of the baseline scenario, and the project remains in compliance with the applied methodology and hence accepted.

3.4 Grouped Project

The project does not fall under grouped project.

4. VERIFICATION FINDINGS

4.1 Project Implementation Status

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

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

The project activity is located in Harappanahalli Taluk, Davanagere district, Karnataka, India.

The location of WTGs is as given below:

S. No	SCADA Label	Longitude	Latitude
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1	HRG 01	75 ° 35' 2.4"N	14 ° 28' 51.6"E
2	HRG 02	75 ° 34' 30"N	14 ° 29' 6"E
3	HRG 03	75 ° 35' 31.2"N	14 ° 29' 31.2"E
4	HRG 04	75 ° 34' 55.2"N	14 ° 29' 2.4"E
5	HRG 05	75 ° 34' 30"N	14 ° 29' 31.2"E
6	HRG 06	75 ° 35' 31.2"N	14 ° 29' 27.6"E
7	HRG 07	75 ° 34' 55.2"N	14 ° 29' 56.4"E
8	HRG 08	75 ° 34' 26.4"N	14 ° 29' 27.6"E
9	HRG 09	75 ° 34' 15.6"N	14 ° 29' 31.2"E
10	HRG 10	75 ° 35' 34.8"N	14 ° 29' 6"E
11	HRG 11	75 ° 34' 22.8"N	14 ° 29' 27.6"E
12	HRG 12	75 ° 35' 45.6"N	14 ° 29' 34.8"E
13	HRG 14	75 ° 35' 31.2"N	14 ° 28' 55.2"E
14	HRG 15	75 ° 35' 31.2"N	14 ° 28' 58.8"E
15	HRG 16	75 ° 34' 30"N	14 ° 28' 55.2"E
16	HRG 17	75 ° 35' 6"N	14 ° 28' 55.2"E
17	HRG 18	75 ° 35' 34.8"N	14 ° 29' 34.8"E
18	HRG 19	75 ° 34' 51.6"N	14 ° 29' 31.2"E

The technical specifications have been verified during remote audit and also cross checked from the technical manuals of the Manufactures.

Technical Specification as per contract with Gamesa wind energy is provided:

WTG Make and Model No.	Gamesa G114
Generator Type & Rating	Doubly-Fed Asyn, 2000kW
WTG configuration	18 X 2000 kW
Rotor Diameter	114.0 m
Swept Area	10,207.0 m ²
Hub Height	106
Tower Type	Conical Tubular Steel
Cut-in-wind speed	2.5 m/s
Cut-in-wind speed	2.5 m/s
Rated wind speed	10.0 m/s

Cut-out wind speed	25.0 m/s
Survival wind speed	60.0 m/s

The commissioning schedule of the respective WTGs are as follows:

COD ²	Cap of each WTG	No of WTGs	MW	Location	Usage
12-August-2016	2 MW	5	10	Harappanahalli Taluk, Davanagere district, Karnataka.	Generated Electricity Supply to Group Captive consumers
21-September-2016	2 MW	3	6		
02-November-2016	2 MW	2	4		
13-January-2017	2 MW	8	16		
	Total	18	36		

The start date of the project is 12-August-2016 which is the first date of commissioning of the first WTG of the plant.

The assessment team confirmed through interview with O&M personal during remote audit that there are no changes into the project design during this monitoring period. It was found that the monitoring plan was implemented as per the requirement of the VCS PD & approved monitoring Plan and applied methodologies. The organisational role and responsibility as mentioned in the registered VCS PD is followed onsite. The calibration of energy meter is carried out as per the required frequency mentioned in the VCS PD. All the emergency preparedness as mentioned in the registered VCS PD is followed onsite and no discrepancies were found regarding the same.

The Project participant contribution from the project activity towards sustainable development are as explained below:

Environmental Well-being

The project utilizes wind energy for generating electricity which otherwise would have been generated through alternate fossil fuel-based power plants, contributing to reduction in specific emissions (emissions of pollutant/unit of energy generated) including GHG emissions.

² As per Commissioning Certificates.

Being a renewable resource, using wind energy to generate electricity contributes to resource conservation. Thus, the project has no negative impact on the surrounding environment contributing to environmental well-being.

Contribution to socio-economic well - being

Economic Sustainability

The project activity improves livelihood of people in the region by generating employment opportunities in the region. The project creates business opportunities of the suppliers, financial institutions and other stakeholder who are directly or indirectly associated with the project. Thus the project is a clean technology investment in the region, which would not have been taken place in the absence of the project.

Social Sustainability

The project activity provided direct employment to persons during construction and on an ongoing basis during normal operations. In addition, additional persons directly benefited through casual work, subcontracts, trading etc. Thus, the project activity helps to improve quality of life by creating opportunities for jobs and business.

Sustainable Development Contribution

The project activity generates electricity through renewable energy source and wheels it to the end users. During the current monitoring period the project generated clean and affordable energy 73,890 MWh which avoided 71,325 tCO₂ in to the atmosphere. The project has provided employment to 6 people and 12 trainings. Thus, the project is contributing towards SDG 7.2, SDG 8.6 and SDG 13.0 during the current monitoring period. The values of electricity were cross checked against submitted JMRs and B forms and based on the same emission reduction values are confirmed. PP has submitted employment records and training records which confirms the employment data and training conducted. PP has also submitted a declaration regarding the number of employees hired during the current monitoring period. VVB has verified that the employees hired during current monitoring period were unemployed before and were of between the age group of 15-24 with the help of employment records.

The project is not involved in any other form of GHG emission program and VCU's generated from this verification will not be used for other trading program to avoid any kind of double counting. The same is confirmed by the PP during the verification remote audit. Assessment team also conducted independent review regarding the same and found that the statement of the PP is accurate, and project is not involved in any other kind of GHG trading for the present verifications/monitoring period.

The assessment team observed that the project is in line with the registered VCS PD and applied methodologies and thus no clarification/deviation is sought. 05 CAR and 00 CL was raised during the verification process. Please refer below Appendix 2 for the detail closure of the CARs.

Assessment team confirms following during the verification remote audit:

1. Start date of the project is 12-August-2016.
2. An undertaking letter has been submitted by PP for no double counting with any other GHG program. PP also has given a written declaration that project will not claim other form of GHG credit for the concerned monitoring period.
3. Assessment team confirms that this is the 3rd monitoring period under VCS and covers the activity from 01-August-2021 to 31-July-2022 (inclusive of both dates). VCS crediting period is of 10 years with 12- August-2016 as the start date of crediting period and end date as 11-August-2026.
4. GHG credits from the crediting period - 12-August-2016 to 11-August-2026 will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the “Double Counting”.
5. Assessment team checked and found that the Project proponent of the project activity is as below for the current monitoring period:

Organization name	<i>Infinite Solutions</i>
Contact person	<i>Mr. Jimmy Sah</i>
Title	<i>Project Consultant</i>
Address	<i>214-215 Milinda Manor, Opp. Next Treasure Island, 2 RNT Marg, Indore- 452001</i>
Telephone	<i>+91-9644130430</i>
Email	<i><u>jimmy@infisolutions.org</u></i>

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

4.2 Safeguards

4.2.1 No Net Harm

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

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.

However, assessment team still conducted the No net harm assessment for some of the parameters and the result is described below:

Sr. No.	Indicator	Assessment team opinion
1	Air quality	However, wind power projects are categorized under white category of Central Pollution Control Board and does not have any potential harmful impact on ambient air quality, VVB has conducted do not harm assessment. The project activity leads to reduction of GHG emission Adequate measures were taken to mitigate the envisaged impacts like spraying water on the road side to reduce dust level etc. during the construction phase. This was confirmed by the local stakeholders. Therefore, it is validated that mitigation measures were robustly implemented on ground for air quality issues project will have a positive impact on air quality.
2	Soil condition	For mitigating the impacts during construction, various mitigation measures were taken which is validated from the plant records of PP and the interview with local stakeholders. It was also confirmed that, the vegetation planted at project site helps to reduce soil erosion. The same is confirmed during the discussion with stakeholders during remote audit. Therefore, it can be concluded that the project has no effect on soil conditions during its operation because it has no waste coming out.
3	Water Pollution	The project site is not on the migration route of migratory bird nor is the project affecting aquatic life. With the implementation of Project, the green cover has increased at the Project site; the biodiversity in the vicinity will be improved with the vegetation improvement.
4	Ecology	The project activity does not have any harmful impact on the ecology. There are no nearby forests, or zones high on biodiversity, or other sensitive locations around the factory that may be affected negatively due to the project. Further, no harmful impact is caused on the aquatic ecology as well as on the local vegetation. Individuals working in high noise zones is provided adequate gadgets for protection. Therefore, it can be concluded that the project has no effect on environment during its operation because it has no waste coming out.

4.2.2 Local Stakeholder Consultation

All the stakeholders are happy with the implementation and operation of the project activity and no negative comments envisaged for the project activity. There was no change in project description from the VCS PD. Complaint/suggestion/feedback register is maintained at site as a part of ongoing communication with stakeholders in line with clause 3.16.17 of VCS Standard, version 4.3 and appropriate actions taken time to time by PP. Assessment team confirmed the same during the remote audit and document review i.e., grievance register. Section 2.3 provides names of the stakeholders interviewed and issues discussed.

4.3 AFOLU-Specific Safeguards

Not Applicable

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the MR. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan of the VCS PD and MR.
Findings	CAR 04 was raised and successfully closed.
Conclusion	As per the applied methodology, emission reductions are calculated as follows: $ER_y = BE_y - PE_y$ Where, ER_y = Emission Reduction in tCO_{2e}/year BE_y = Baseline emission in tCO_{2e}/year PE_y = Project emissions in tCO_{2e}/year As per methodology: $BE_y = EG_{PJ,y} * EF_{grid,CM,y}$ Where, BE_y = Baseline Emissions in year Y (tCO_{2e}/yr) $EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the VCS project activity in year y (MWh/yr)

$EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system” (tCO_{2e}/MWh) (i.e, 0.9653 tCO₂/MWh).

Monitored Parameters

The value monitored of $EG_{PJ,y}$ is 73,890 MWh.

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

The verification team has reviewed the emission reduction sheet and monitoring report data with the energy generation reports and found all the values are consistent. Also same is cross checked with quantity of biomass fired found correct.

The calculation of baseline emissions is as below,

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

$$= 73,890 * 0.9653 = 71,325 \text{ tCO}_2\text{e (round down values)}$$

Project emissions:

As the project activity involves in harnessing wind power. So, the emission from the project are zero.

Leakage Emission

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

Hence, net GHG reduction and removals

Year	Baseline emissions or removals (tCO _{2e})	Project emissions or removals (tCO _{2e})	Leakage emissions (tCO _{2e})	Net GHG emission reductions or removals (tCO _{2e})
(01-August-2021 to 31-December-	28,234	0	0	28,234

2021)					
2021					
(01-January-2022 to 31-July-2022)	43,091	0	0		43,091
Total	71,325	0	0		71,325
VVB confirmed that GHG reductions and removals have been quantified correctly and in line with monitoring procedure in VCS PD and applied methodology.					

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	The verification team checked the shutdown/break down log for the monitoring period. During the verification of remote audit, the energy meters are also checked. The Calibration details of the monitoring meters are also checked with calibration certificates.
Findings	CAR 05 was raised
Conclusion	Calibration of all the meters is done as per the registered VCS PD. Assessment team has checked the calibration certificate and found that meters are calibrated as per calibration frequency mentioned in registered VCS DD. Meters are calibrated as per the standard procedures and documents for the same are maintained throughout. The details are provided in the appendix 5 which were cross checked and confirmed against the submitted calibration certificates. The responsibilities and authorities of project management, data handling and recording, measurement methods and QA/QC procedure have been systematically established and formalized and the same was verified during the remote audit. Remote audit and interview with site personnel also confirms that the operational and organizational chart as mentioned in registered VCS PD is as per the site practice and thus assessment team confirms that the details are correct. The shutdown / break down reports are checked and found that the plant undergone scheduled maintenance and break down. Assessment team checked the routine maintenance log book and confirmed that it does not have any impact on project design and monitoring procedures. No unforced error

	observed. Assessment team confirmed that data/ information used for determining GHG reductions and removals were sufficient in quantity and of appropriate quality. Calibration certificates of meters/ QA/QC procedure checked and found to be appropriate.
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4.6 Non-Permanence Risk Analysis

The project proponent has not determined any risk rating for any non-permanence risk as same is not applicable which is checked and accepted.

5. VERIFICATION CONCLUSION

Applus+ Certification has been engaged by Infinite Solutions to perform the 3rd verification of the “Wind Power Project by Green Infra Wind Power Generation Limited”.

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

Our Verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board and VCS Standard version 4.3. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is operated as planned and described in the project document;
- the monitoring plan is as per the applied methodology - ACM0002: Grid-connected electricity generation from renewable sources - Version 18.1³;
- the monitoring process in Monitoring Report is as per the VCS PD
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.
- A reasonable level of assurance was achieved during the verification.
- No limitation observed for the present verification

Verification period: From 01-August-2021 to 31-July-2022 (first and last date included).

³ <https://cdm.unfccc.int/UserManagement/FileStorage/2L9KQXT6HGREJW084VD0IPYB7U5SMA>

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

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
(01-August-2021 to 31-December-2021)	28,234	0	0	28,234
(01-January-2022 to 31-July-2022)	43,091	0	0	43,091
Total	71,325	0	0	71,325

The estimated emission reduction achieved from the project activity for the current monitoring period is 71,325 tCO₂e. As actual VCUs 10.33% lower than the estimated value for this monitoring period, VVB confirmed the value is conservative and acceptable. VVB based on the sectoral and local expertise confirms that this lower value is due to availability of wind which is acceptable.

APPENDIX 1: DOCUMENTS REVIEWED DURING VERIFICATION

No.	Author	Title	References to the document	Provider
1.	NA	Initial monitoring report Final monitoring report	Version, 01 02-August-2022 Version 05, 17-November-2022	PP
2.	NA	Emission reduction sheet Emission reduction sheet	Version, 01 02-August-2022 Version 02, 16-September - 2022	PP
3.	NA	Registered VCS Joint PD & MR Joint Validation and Verification report	Version 02 dated 03-August-2018 Version 02 dated 11-August-2018	VERRA
4.	Infinite solutions ESPL Infinite Solutions ESPL	Monitoring report Verification report Monitoring report Verification report	Version 03 dated 30-October-2020 Version 03 dated 03-11-2020 Version 03 dated 17-September-2021 Version 02 dated 17-September-2021	VERRA
5.	KPTCL	Commissioning certificates of WTGs	-	PP
6.	NA	Technical specifications of WTGs		PP
7.	Bangalore Electricity Supply company Limited	Calibration Certificates of energy meters	-	PP
8.	PP	O & M Agreements for WTGs	-	PP

9.	NA	Tools/ guidelines used in the project activity - VCS standard Version 4.3 - VCS Program Guide 4.2 - VCS verification report template Version 4.1		UNFCCC / VERRA
10.	State Utility for B-Form, PP for invoice	Monthly statement- B-Form & invoices for the complete monitoring period	-	PP
11.	PP	Declaration regarding no participation in other GHG program for the concerned monitoring period	21-July-2022	PP
12.	PP	Breakdown details for the monitoring period	-	PP
13.	PP	Grievance Register maintained at site	-	PP
14.	UNFCCC	CDM validation and verification standard for project activities	Version 03.0	UNFCCC

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

CAR ID	01	Section no.	4.1	Date: 16-August-2022
Description of CAR				

During review of monitoring report following inconsistencies observed:

1. Date format throughout the Monitoring report is not in line with the VCS Template Version 4.1, Thus, corrective action sought.
2. PP requested to submit copies of technical specifications of WTGs, PPA, O&M agreement, & Breakdown sheet of the project activity. Kindly submit.
3. PP is requested to reframe the language of throughout the MR as the project activity is implemented and contributing towards sustainable development. Corrective action sought.
4. PP has mentioned commissioning date of project activity in section 1.1 of monitoring report, however to verify the same, supporting documents is missing. PP is requested to submit it to assessment team. Kindly submit.
5. Title of authorized ministry for providing indicators of sustainable development throughout the Monitoring report is not in line with Host country webpage. Thus, corrective action sought.

Project participant response

Date: 17-August-2022

- 1.Date format is corrected throughout in Revised MR Version 2.0
2. Technical specifications of WTGs, PPA, O&M agreement, & Breakdown sheet of the project activity.
- 3.The language is reframed in revised MR Version 2.0.
- 4.Commissioning certificate is submitted herewith.
5. This has been corrected in Revised MR version 2.0

Documentation provided by project participant

- 1.Revised MR Version 2.0
- 2.Technical specification of WTGs
- 3.O and M agreement
- 4.Commissioning certificate
- 5.Breakdown details

DOE assessment

Date: 22-August-2022

1. PP has now changed the date-format throughout the monitoring report. However, date format of commissioning date is not in line with the VCS Template Version 4.1, Thus, corrective action sought.
2. PP has submitted technical specifications of WTGs, PPA, O&M agreement, & Breakdown sheet of the project activity which was found in line with the details provided in revised MR, ver. 02 dated 17/08/2022.
3. PP has now reframed the language throughout the revised MR, ver. 02 dated 17/08/2022.
4. PP has now submitted commissioning certificates which was found in line with the details provided in revised MR, ver. 02 dated 17/08/2022.
5. PP has now updated the title of authorized ministry for providing indicators of sustainable development throughout the Monitoring report and is in line with Host country webpage.

CAR is open.

Project participant response

Date: 25-August-2022

Date format is corrected in the revised MR Version 3.0

Documentation provided by project participant

Revised MR Version 3.0	
DOE assessment	Date: 29-August-2022
1. PP has now revised the date format through the revised MR version 03 dated 25-August-2022 which have been verified by DOE.	
CAR closed	

CAR ID	02	Section no.	4.1	Date: 16-August-2022
Description of CAR				
1. PP is requested to submit an undertaking for no double accounting for current monitoring period and for project activity is participated in other GHG program other than VCS.				
Project participant response				Date: 17-August-2022
1.Undertaking for no double counting by PP is submitted herewith.				
Documentation provided by project participant				
1.Undertaking for No double counting				
DOE assessment				Date: 22-August-2022
1. PP has now submitted the undertaking for no double accounting for current monitoring period and for project activity is not participated in any other GHG program other than VCS.				
CAR closed.				

CAR ID	03	Section no.	4.2.2	Date: 16-August-2022
Description of CAR				
PP requested to submit records for ongoing local stakeholder consultation including grievance register etc. to assessment team.				
Project participant response				Date: 17-August-2022
<i>Grievance register is submitted herewith</i>				
Documentation provided by project participant				
<i>Grievance register</i>				
DOE assessment				Date: 22-August-2022

1. PP has now submitted grievance register and it has been verified.
CAR closed.

CAR ID	04	Section no.	4.4	Date: 16-August-2022
Description of CAR				
1. PP is requested to submit all supporting documents for all the monitoring parameters and monitored values of the project activity to assessment team. 2. PP has provided the ER sheet to the assessment team. However, the value of actual emission reductions and difference in emission reduction mentioned in the MR are not consistent with the ER Sheet. Thus, corrective action sought.				
Project participant response				Date: 17-August-2022
1. Supporting documents for supporting parameters are submitted herewith. 2. The values are corrected in revised Monitoring report version 2.0				
Documentation provided by project participant				
1. B- Form for entire monitoring period 2. Revised ER sheet 3. Revised MR Version 2.0				
DOE assessment				Date: 22-August-2022
1. PP has now submitted all supporting documents for all the monitoring parameters and monitored values of the project activity to assessment team. DoE cross checked plant records with the values from ER sheet and found some inconsistency. Thus, corrective action sought. 2. During the review DoE has found that Cross Check Mechanism is missing in ER. PP is requested to submit the revised ER sheet and provide evidence for the same.				
CAR is open				
Project participant response				Date: 25-August-2022
1. ER sheet has been revised and is made consistent 2. Cross checking mechanism is submitted herewith along with supporting documents				
Documentation provided by project participant				
1. ER Sheet 2. Invoices for electricity sold				
DOE assessment				Date: 29-August-2022

1. DOE has cross checked plant records values with the values from the revised ER sheet.
2. DOE has verified the cross-checking mechanism in the revised ER sheet submitted by PP.

CAR closed.

CAR ID	05	Section no.	4.5	Date: 16-August-2022
Description of CAR				
1. Detailed Information of metering equipment like serial number, make, calibration and validity of calibration and calibration frequency are mentioned in Appendix-1 of MR. However, PP has not provided Calibration dates covering complete monitoring period. Thus, corrective action sought. To verify the same PP is requested to submit the copies of calibration certificates covering complete monitoring period to the assessment team.				
Project participant response				Date: 17-August-2022
Details of Calibration covering entire monitoring period is added in the revised MR Version 2.0				
Documentation provided by project participant				
Calibration certificate Revised MR Version 2.0				
DOE assessment				Date: 22-August-2022
1. PP has provided calibration certificates of all the monitoring equipment's which was checked and found the accuracy and frequency of calibration in line with the registered PDD.				
CAR is closed.				

APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Verification team member

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

Technical reviewer and approver of the verification and certification report

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

Short CVs of the Team:

- Pankaj Kumar** worked as team leader – Bihar for South Asia Climate Proofing and Growth Development (CPGD) – Climate Change Innovation Programme (CCIP) supported by DFID that seeks to mainstream climate change resilience into planning and budgeting at the national and sub-national level in India, Pakistan, Nepal, and Afghanistan. Pankaj Kumar has worked previously with IL&FS Infrastructure Development Corporation and BUIDCO (Bihar Urban Infrastructure Development Corporation), Govt. Of Bihar as Environmental Specialist for WB & ADB funded projects. Prior to this, he worked with Carbon Check (UNFCCC accredited DoE), Johannesburg, RSA as Team Leader for validation, verification of around 100 GHG projects in Asia, Africa, USA, Asia Pacific & Americas. Pankaj is accredited Lead Auditor, Validator, Verifier and Technical Expert for Sectoral Scope/Technical Area – 1.1, 1.2, 3.1 & 13.1 by UNFCCC DoE (Designated Operational Entity), APPLUS, Spain. He is also member of task force

on climate change & human health, Health Department, GoB and on roster of UNICEF's WASH experts.

He is an led, qualified and result oriented Environment Professional having more than 14 yrs. Of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Validation and Verification of GHG project under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil. He provides technical support for environmental investigative, consultative and remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing

Pankaj Kumar is Masters in Environment Management from Forest Research Institute (University), I.C.F.R.E, Dehradun, which is Centre of Excellence in South East Asia for Forestry education & research and PGDEL from National Law School of India University, Bangalore (India).

2. **Anil Soyler** Anil Söyler has done Bsc. In Environmental Engineering. He has completed his Bachelor degree in Middle East Technical University, Turkey. He has more than 15 years of professional experience in environmental management, monitoring and auditing, waste and waste water management, environmental and social impact assessment, GHG emission report and projects' validation and verification, environmental reports, team and client relationship management and quality management systems and has been involved in the validation/verification services of more than 100 GHG emission reduction projects in total. He has also been involved in both national and international projects supported by IFC, World Bank and EBRD. Mr. Anil Söyler is based in Turkey.

APPENDIX 4: ABBREVIATIONS

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification Request
CM	Combined Margin
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide equivalent
DNA	Designated National Authority
DR	Document Review
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming Potential
OM	Operating Margin
PP	Project Participant
VCU	Verified Carbon Units
VVB	Validation and Verification Body
WTG	Wind Turbine Generator
KPTCL	Karnataka Power Transmission Corporation Limited

APPENDIX 5: CALIBRATION DETAILS

Meter and Calibration details of 36 MW Wind project by Green Infra Wind Power Generation Limited:

Feeder No 1		
Meter & Calibration Details:		
Details	Main Meter	Check Meter
Meter Number	16196486	16196494
Make	L&T	L&T
Accuracy	0.2s	0.2s
Last Calibration	06-April-2017	06-April-2017
Due date	05-April-2022	05-April-2022
Latest calibration	15-October-2020	15-October-2020
Due date	14-October-2025	14-October-2025

Feeder No 2		
Meter & Calibration Details:		
Details	Details	Details
Meter Number	16196472	16196478
Make	L&T	L&T
Accuracy	0.2s	0.2s
Last Calibration	06-April-2017	06-April-2017
Due date	05-April-2022	05-April-2022
Latest calibration	15-October-2020	15-October-2020
Due date	14-October-2025	14-October-2025