

**GOLD STANDARD FOR THE GLOBAL GOALS (GS4GG)
REPORT
-
VERIFICATION**



Project Title:	100.5 MW Wind Power Project in Madhya Pradesh, India
Monitoring Period:	01/08/2020 to 31/12/2020 (Both days included)
GS project ID:	GS3969
Internal ID:	7721
Customer:	Orange Mamatkhedha Wind Private Limited (OMWPL)
Date:	~~09/08/2021~~ 20/09/2021 (revised for GS review)
Revision:	~~02~~ 03

SUMMARY			
Reference No.	Date (first version)	Version No.	Date (last version)
A+SH_SYST_TQC_GS_VER_7721	21/07/2020	0203	09/08/202120/09/2021
GS4GG Verification			
GS4GG Certified Product (sought):		GS VER	
GS4GG SDG Impact Statement (sought):		Impact Certification	
General Information			
Client	Orange Mamatkheda Wind Private Limited (OMWPL)		
Project Title	100.5 MW Wind Power Project in Madhya Pradesh, India		
Project Participants	Orange Mamatkheda Wind Private Limited (OMWPL)		
Project Location	Bagiya, Kanser, Mawta, Nandwell, Ranigaon, Thikriya, Bhandariya, Bhepur, Chandakhedi, Dehari, Dhandhoda, Garoda, Karju and Sagwali, villages of Ratlam & Mandsaur districts of Madhya Pradesh, India		
Contact Person	Murali Krishnam Raju M		
Monitoring Period:	01/08/2020 to 31/12/2020 (Both days included)		
GS4GG Version: GS4GG Principles and Requirements 1.2 GS4GG Activity Requirements: RE Activity Requirements, version 1.3 Applied Methodology Version: ACM0002 "Grid-connected electricity generation from renewable sources" Version 16.0		GS4GG Sectoral Scope: 2 UNFCCC CDM Sectoral Scope: 1 Technical Area: 1.2	
Monitoring Report Version: 01 Date: 15/05/2021		Final Monitoring Report Version: 02 Date: 20/07/202016/09/2021	
Certified Project Design Document Version: Assessment team checked the registered GS PDD version 02 dated 21/12/2015. Date: Provided above			
Estimated outcomes for the Monitoring period for all SDG: SDG 7: 75,652 MWh SDG 8: 1 for training, 39 Mn INR O&M Cost spent and 89 people employed SDG 13: 73,914tCO ₂ e			
Actual outcomes achieved for all SDG: SDG 7: 58,854 MWh for this Monitoring Period with below vintage breakup:			
Vintage		Net Generation (MWh)	
01/08/2020 to 31/12/2020		58,854	
Total		58,854	
SDG 8: Trainings = 17 Trainings provided to staff /48 Mn INR spent on O&M/91 Number employment			

SUMMARY

provided. Vintage breakup as follow:

Vintage	Number of Training	O&M Cost Spent (Mn INR)	Number of Jobs provided
01/08/2020 to 31/12/2020	1711	48	91
Total	1711	48	91

SDG 13: 57,500 tCO₂ for this Monitoring Period and vintage breakup as follows:

Vintage	Baseline Emissions (tCO ₂ e)	Project Emissions (tCO ₂ e)	Emission reductions (t CO ₂ e)
01/08/2020 to 31/12/2020	57,500	0	57,500
Total	57,500	0	57,500

Selected Sustainable Development Goals (SDGs): 7; 8; 13

Verification Summary

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by Orange Mamatkhedha Wind Private Limited (OMWPL) to perform the 5th periodical verification of "100.5 MW Wind Power Project in Madhya Pradesh, India" (Ref. No. GS3969) applying the methodology ACM0002 Version 16.0.

The management of Orange Mamatkhedha Wind Private Limited (OMWPL) is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.

A desk review and an interview have been conducted to verify the data submitted in the monitoring report. Applus+ Certification confirms the following have been reviewed:

- The registered PDD and revised PDD including the monitoring plan & Transition Annex;
- Monitoring report(s);
- The applied monitoring methodology;
- Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board;
- GS4GG guideline and related Annex.
- All information and references relevant to the project activity's resulting in emission reductions.

Orange Mamatkhedha Wind Private Limited (OMWPL) has set up wind power project in the villages of Bagiya, Kansar, Mawta, Nandwell, Ranigaon, Thikriya, Bhandariya, Bhepur, Chandakhedi, Dehari, Dhandhoda, Garoda, Karju and Sagwali, villages of Ratlam & Mandsaur districts of Madhya Pradesh with capacity of 100 MW (67 X 1.5 MW).

The project activity generates clean electricity with utilization of wind energy. The project consists of 67 Wind Turbine Generators (WTGs) of ReGen V87 turbines of 1.5 MW each. Commissioning of all WTGs was held between 20/08/2014 to 28/04/2015 period.

The electricity generated by the project is exported to the Indian electricity grid. The project activity displaces an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid and thereby has resulted in reduction of the associated CO₂ emissions. The monitoring of emission reduction and sustainable development indicators has been carried out in accordance to respective revised PDD and Passport & Transition Annex.

Applus+ Certification confirms that the project is implemented in accordance with the validated and registered PDD, revised PDD & Transition Annex. The monitoring plan complies with the applied methodology ACM0002 Version 16.0 and the GS4GG guideline the monitoring has been carried out in accordance with the monitoring plan. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information reviewed and evaluated Applus+

SUMMARY

Certification confirms that the implementation of the project has resulted in 57,500 tCO₂e emission reductions during period 01/08/2020 to 31/12/2020 (Both days included)

ASSESSMENT TEAM

Team Members	Type of Resource ¹	Organization (for OEs)
Lead Auditor: Dr. Atul Takarkhede	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited
Technical Expert: Dr. Atul Takarkhede	☐ IR ☐ EI ☒ OE	M/s True Quality Certifications Private Limited
Technical Reviewer: Mr. Denny Xue	☐ IR ☒ EI ☐ OE	Applus+ Certification

¹ IR (Internal Resource); EI (External Individual); OE (Outsourced Entity)

ABBREVIATIONS	
ACM	Approved Consolidated Methodology
AM	Approved Methodology
AMS	Approved Methodology Small Scale
Applus+ LGAI / Applus+	LGAI Technological Center, S.A. (Applus+ Certification)
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CDM VVS version 02	CDM validation and verification standard for project activities, Version 02.0
CER	Certified Emission Reduction
CL / CR	Clarification Request
CM	Combined Margin
CMP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
DNA	Designated National Authority
DOE	Designated Operational Entity
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reduction
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
GS4GG (or GS)	Gold Standard for Global Goals
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-Governmental Organization
SDG	Sustainable Development Goal
TAC	Gold Standard Technical Advisory Committee
OMWPL	Orange Mamatkhedha Wind Private Limited (OMWPL)
OM	Operational Margin
PDD	Project Design Document
PP	Project Participant
UNFCCC	United Nations Framework Convention for Climate Change
VVB	Validation and Verification Body
VVS	Validation and Verification Standard

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1. INTRODUCTION

1.1 Objective

LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by Orange Mamatkhedha Wind Private Limited (OMWPL) to perform the 5th periodical verification of "100.5 MW Wind Power Project in Madhya Pradesh, India" applying the methodology ACM0002 Version 16.0 and GS4GG guideline. Gold Standard projects must undergo periodic audits and verification of emission reductions as the basis for issuance of Gold Standard VERs.

The objective of the verification work is to assess the compliance with the requirements of paragraph 62 of the CDM Modalities and Procedures as well as the GS4GG guidelines and relevant Principles and Requirements. According to this assessment Applus+ Certification shall:

- Ensure that the project activity has been implemented and operated as per the revised PDD and Passport & Transition Annex and that all physical features (technology, project equipment, monitoring and metering equipment) of the project are in place;
- Ensure that the published MR and other supporting documents provided are complete, verifiable and in accordance with applicable CDM validation and verification standard for project activities, Version 02.0 for the project activities and Gold Standard (i.e., applicable GS4GG requirements);
- Ensure that the actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology;
- Evaluate the data recorded and stored as per the ACM0002 Version 16.0.

1.2 Scope

The verification scope encompasses an independent and objective review and ex-post determination of the monitored reductions in GHG emissions by the DOE. The verification is based on the submitted monitoring report, revised PDD and registered Passport & Transition Annex as well as its validation report, the applied monitoring methodology, relevant decisions, clarifications and guidance from the CMP and the EB, GS4GG guideline and any other information and references relevant to the project activity's resulting emission reductions. These documents are reviewed against the requirements of the Kyoto Protocol, the CDM Modalities and Procedures, GS4GG guideline and relevant Principles and Requirements, as well as their related rules and guidance.

Based on the requirements in the CDM validation and verification standard for project activities, Version 02.0 for the project activities as well as the GS4GG guidelines, Applus+ Certification has applied a rule-based approach for the verification of the project. The principles of accuracy, completeness, relevance, reliability and credibility were combined with a conservative approach to establish a traceable and transparent verification opinion.

The verification considers both quantitative and qualitative information on emission reductions. The verification also considers the monitoring of SDG goals as per the requirement of GS4GG guideline.

The verification is not meant to provide any consultancy towards the client. However, stated requests for clarifications, corrective and/or forward actions may provide input for improvement of the monitoring activities.

1.3 Description of the project activity

Orange Mamatkhedha Wind Private Limited (OMWPL) has set up wind power project in the villages of Bagiya, Kansar, Mawta, Nandwell, Ranigaon, Thikriya, Bhandariya, Bhepur, Chandakhedi, Dehari, Dhandhoda, Garoda, Karju and Sagwali, villages of Ratlam & Mandsaur districts of Madhya Pradesh with capacity of 100.5 MW (67 X 1.5 MW).

The project activity generates clean electricity with utilization of wind energy. The project consists of 50 Wind Turbine Generators (WTGs) of ReGen V87 turbines of 1.5 MW each. Commissioning of all WTGs was held between 20/08/2014 to 28/04/2015 period.

The electricity generated by the project is exported to the Indian electricity grid. The project activity displaces an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid and thereby has resulted in reduction of the associated CO₂ emissions. The monitoring of emission reduction and sustainable development indicators has been carried out in accordance to respective revised PDD, Passport and Transition Annex.

2. METHODOLOGY

Applus+ Certification approach to the verification is a two-stage process. In the 1st stage, Applus+ Certification completed a strategic review and risk assessment of the projects activities and processes in order to gain a full understanding of:

- Activities associated with all the sources contributing to the project emissions and emission reductions, including leakage if relevant;
- Protocols used to estimate or measure GHG emissions from these sources;
- Collection and handling of data;
- Controls on the collection and handling of data;
- Means of verifying reported data; and
- Compilation of the monitoring report.

Applus+ Certification used a periodical Verification Checklist which, based on the risk-based assessment of the parameters and data collection and handling processes for each of those parameters, describes the verification approach and the sampling plan.

In the 2nd stage, using the Verification Checklist, Applus+ Certification verified the implementation of the monitoring plan and the data presented in the Monitoring Report for the period in question. This involved a remote audit and a desk review of the Monitoring Report. This Verification Report describes the findings of this assessment.

2.1 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
Dr. Atul Takarkhede	LA/TE	YES	YES	NA	YES
Mr. Denny Xue	TR	YES	YES	NA	NA

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

2.2 Document review

The Monitoring Report version 01 was submitted to DOE before the verification activities started. The MR was assessed based on all the relevant documents. The aim of the assessment in the desk review was to:

- Verify the completeness of the data and the information presented in the MR;
- Check the compliance of the MR with respect to the monitoring plan depicted in the revised PDD & Transition Annex, verify that the applied methodology was carried out. Particular attention to the frequency of measurements, the quality of the metering equipment including calibration requirements, and the quality assurance and quality control procedures of the power plant was checked by the assessment team.
- Evaluate the data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.
- Please check reference 4 of this report for detail of the documents checked.

2.3 On site assessment and follow up interviews

No Physical verification was conducted by the VVB for this GS verification due to high threat of COVID-19 in entire state of India. Government of India has ordered nationwide lockdown from 25/03/2020 to 14/04/2020 in first phase & further extended².

Hence, inline with the COVID 19: INTERIM MEASURES published by GS on 06/04/2020 and subsequent amendments, VVB has taken alternative measures to reach reasonable level of assurance. Further, no alternative monitoring approach have been used by project proponent during this monitoring period. The monitoring period is less than 2 years inline with GS COVID 19: INTERIM MEASURES guidelines. Moreover, as verified from the ERPA provided by PP/23/, PP has commitment of supplying of VER to buyer by 31/07/2021. So, the site visit cannot be postponed to a later date. Thus, as per para 4.1.1 (b) of GS4GG rule update "COVID-19_Interim-measures", assessment team have conducted remote audit and used verification techniques & advanced communication technology solutions to verify information and compliance with applicable requirements to the extent possible, to ensure the completeness and credibility of the audit.

All the material impact can be confirmed by verifying the supporting documents such as Joint Meter Reading (JMR), Invoice, employment records, Training records, CSR records, grievance register, bird strike register, HSE records etc. which are submitted by PP and the implementation and monitoring procedures can be confirmed through interview with PP representative, O&M team and local stakeholders & consultant. Hence, the assessment team can achieve the reasonable level of assurance through remote audit.

Thus, following means of verification have been implemented by assessment team:

- Cross checks between information provided in the PDD/Passport/Transition Annex/Monitoring report and information.
- The DOE's sectoral & local expertise.
- Telephone & Skype video call Interviews with PP representative, O&M team and local stakeholders & consultant.
- Cross checks between the information provided by interviewed personnels & information provided in registered documents as well as previous verification documents;

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	M	Murali Krishnam Raju	PP representative	14/06/2021 (Telephonic)	Project implementation, JMR, Sustainable monitoring etc.	Dr. Atul Takarkhede
2.	Kumar	Anil	Incharge	14/06/2021 (Skype)	Project implementation, O&M, JMR, Calibration, Sustainable	

² <https://www.mha.gov.in/notifications/circulars-covid-19>

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
					monitoring, LSC etc.	
<u>3.</u>	<u>Singh</u>	<u>Yudhisthir</u>	<u>Store Manager</u>	<u>14/06/2021</u> <u>(Skype)</u>	<u>Employment opportunities & Standard of Livings etc.</u>	
<u>3.4.</u>	Kumar	Narendra	Consultant	14/06/2021 (Skype)	Monitoring report and Emission reduction calculations etc.	
<u>4.5.</u>	Kumavat	Dinesh	Local stakeholder	14/06/2021 (Telephone)	Stakeholder meeting- Employment opportunities, Pollution aspects, Standard of Livings etc.	
<u>5.6.</u>	S	Yashoda	Local stakeholder	14/06/2021 (Telephone)	Stakeholder meeting- Employment opportunities, Pollution aspects, Standard of Livings etc.	

The objective of the remote on-site assessment is to:

- Confirm the implementation and operation of the project;
- Review the data flow for generating, aggregating and reporting the monitoring parameters;
- Confirm the correct implementation of procedures for operations and data collection;
- Cross-check the information provided in the MR documentation with other sources;
- Check the monitoring equipment against the requirements of the PDD & Transition Annex and the approved methodology, including calibrations, maintenance, etc.;
- Review the calculations and assumptions used to obtain the GHG data and ER;
- Identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters.
- Confirm the SDG goals/ Sustainable monitoring parameter as per the revised PDD & Transition Annex
- To understand grievance (if any) from the villagers during the monitoring period.
- Local stakeholder interviews.

To verify the implementation of project activity, onsite operation & maintenance, monitoring & management practices; assessment team has conducted Skype video call/telephonic interviews with onsite in-charge, 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 PDD & Transition Annex and approved methodology), employment & training records, Salary records, CSR records, breakdown log, O&M schedule, complaint/feedback register, bird strike register and other relevant records.

After telephonic/Skype interviews with concerned onsite persons, document reviews & site videos/photographs submitted by PP; assessment team concluded that the project activity is still implemented and operated in-line with the revised PDD & Transition Annex. There is no change in the project design or operation and monitoring practices at site which can alter the applicability or additionality of the project activity. In addition to the interviews with PP, assessment team have checked the commissioning certificate, PPA and JMRs and found that the project activity is implemented as per the PDD, Transition Annex and Monitoring report submitted by the PP for current monitoring period. Assessment team therefore of the opinion that project is implemented as described in the revised PDD & Transition Annex and there is no change in monitoring practices as well as all monitoring parameters as envisaged in the PDD & Transition Annex. All the monitored values are supported by the evidences i.e. JMRs and found that information provided in the MR is inline with the submitted evidences.

Some snapshots of the remote audit through Skype and photographs of the project activity are provided in Appendix 4 of this report.

Interview summary of some of the questions asked to the local stakeholders is also given below:

Name of the stakeholder	Dinesh Kumavat
Occupation	Local Stakeholder
DOE QUESTION: Did PP/vendors have employed locals in the operation and maintenance of the project activity? Answer: Yes. PP as well as vendors have given preference to the local peoples residing in the vicinity of the area for various employment. Assessment team noted that locals were employed for the project activity and same is verified from the list of local employees submitted by PP. DOE also during the interviews with site incharge noted that that local people were employed for security and operation related work like vegetation improvement and other unskilled work and operation and electrical work. DOE QUESTION: Please provide the details of Hazardous waste/waste oil generated, disposed, any spillages and Leakage of any diesel or waste oil during the period 01/08/2020 to 31/12/2020. Answer: No such waste generation or leakage occurred during the period. Please refer the HSE records submitted. DOE also verified HSE records submitted and confirmed that no Hazardous waste/waste oil generated, disposed, any spillages and Leakage of any diesel or waste oil during the monitoring period.	

Name of the stakeholder	Yashoda S.
Occupation	Local Stakeholder (Villager)
DOE QUESTION: Did the project have helped in generating employment opportunities? Answer: Yes. Due the wind mill projects in the area employment opportunities are increased. DOE QUESTION: Is there any infrastructure development like roads etc. happened due to windfarm	

project?

Answer: Yes. Due to WTG installations the company have prepared some roads in the area which is helping villagers.

DOE also noted that employments are created for both skilled and unskilled manpower due to installation of WTGs in the area. Also service provider have constructed some roads to access WTGs and villages.

Name of the stakeholder	Yudhisthir SinghYashoda-S
Occupation	Local stakeholder (Villager)Store Manager
DOE QUESTION: In which area you belong to? Answer: Residing in the village near to the plant substation. DOE questions: In which department you are working? Answer: Working as office staff <u>in store department</u>. DOE question: Did company pays salary regularly? Answer: Yes. PP paying salary regularly. DOE interviewed stakeholder on CSR activities by company, employment for locals, grievance filing & redressal mechanism of company, bird deaths due to WTGs & other SDG parameters. Assessment team verified grievance register, HSE records submitted and confirmed that no Hazardous waste/waste oil generated, disposed, any spillages and Leakage of any diesel or waste oil during the monitoring period.	

2.4 Quality of evidences

Sufficient evidence covering the full verification period in the required frequency is available to verify the figures stated in the final MR Version 2.01. Specific cross-checks have been done in cases that further sources were available. The monitoring report's figures were checked by the assessment team against the raw data. The data collection system meets the requirements of the monitoring plan as per the methodology.

2.5 Reporting of findings

As an outcome of the verification process, the assessment team can raise different types of findings.

Where a non-conformance arises the assessment team shall raise a Corrective Action Request (CAR). A CAR is issued, where:

- Non-compliance with the monitoring plan or methodology are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient;
- Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;

- Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

The assessment team shall raise a Clarification Request (CR) if information is insufficient or not clear enough to determine whether the applicable CDM/GS requirements have been met.

All CARs /CRs/ FARs raised during verification shall be resolved prior to submitting a request for issuance.

Forward Action Requests (FARs) may be raised during verification for actions where the monitoring and reporting require attention and/or adjustment for the next verification period.

Please refer Appendix 1 of this report. Total numbers of CARs: 04, CLs: 00, FARs: 00.

2.6 Internal Quality Control

As a final step of verification, the final documentation including the verification report has to undergo an internal quality control by the Technical Reviewer. Each report has to be finally approved either by the DOE's Technical Manager or the Deputy. This approval process also includes another quality assurance check in terms of Administrative Review. In case one of these two persons is part of the assessment team, the final approval can only be given by the person who is not a part of the assessment team. If the documents have been satisfactorily approved, the Request for Issuance is submitted to the GS Registry along with the relevant documents.

3. VERIFICATION FINDINGS

3.1 FARs from Validation / Previous Verification

This is 5th periodic verification for the project activity and No FAR is raised during validation or previous verification of the project activity. Also, there is no FAR is raised by Gold Standard during the performance review of last monitoring period.

3.2 Project Implementation in accordance with the registered Project Design Document

The project activity was fully implemented according to the description presented in the revised PDD, Passport & Transition Annex. The assessment team confirms, through the remote audit that all physical features of the proposed project activity including data collecting systems and storage have been implemented in accordance with the revised PDD & Transition Annex for GS4GG and Passport.

The technical features of the equipment's have been verified by the assessment team by reviewing following documentation:

- telephonic interviews of onsite personnels
- Technical detail analysis of the power plant from the documents submitted by the manufacturer.
- Commissioning certificates of the turbines
- PPA for the project activity

67 WTGs of ReGen V87 model; 1,500 kW has been installed by the PP. Technical Details are as follow: -

POWER	
Rated power	1500 kW
Cut-in wind speed (10 min.	3 m/s
Rated Wind Speed (10 min.	Approx. 12.5 m/s
Cut-out wind speed (10 min.	22 m/s
Survival wind speed	52.5 m/s
Generator	Variable Speed, Multi-pole Synchronous with Permanent Magnet Excitation
ROTOR	
Diameter	86.7 m
Swept area	5325 m ²
Speed range (variable)	9 to 17.3 rpm
TOWER AND FOUNDATION	
Hub height	85 m
Design	Tubular, Four sections
Foundation type	Floating foundation
CONTROL AND SAFETY SYSTEMS	
Control of output	Pitch Regulation
Speed control	Variable, Micro-controller based
Low Voltage Ride Through	3 seconds
Primary brake system	Aerodynamic Brake, Single Pitch Control/triple redundant
Pitch System	Electromechanical, Maintenance Free Toothed Belt Drive (Patented)
Remote Monitoring	VPN, Visualization via web-browser
TYPE CLASSES	
Wind turbine type class	GL III A

All the WTGs have been commissioned between the period 20/08/2014 – 28/04/2015 (detailed out in below table). Assessment team checked the commissioning date of the project activity from the Commissioning certificate issued by the government authority i.e., State Utility and found the same to be appropriate.

The project activity was in normal operational during the monitoring period and the same has been confirmed during interviews with PP and crosschecked from review of JMR & breakdown records submitted by PP. WTGs are working throughout the monitoring period and same have

been conformed from JMR values. No unusual activates observed during the monitoring period and plant was undergone scheduled as well as emergency maintenance as per the recommendation of the manufacturers. No forced breakdown observed and the same is confirmed by the assessment team with the plant log details and JMRs.

The verification team has reviewed the commissioning certificates & PPA to conclude that the capacity of the project is same as mentioned in the registered GS PDD and explained by PP during interviews. The capacity of the project activity does not change after the registration of the project activity and same have been confirmed from the commission certificate, PPA and JMRs issued by State Utility and Invoices raised by the PP towards State Utility.

Also, from review of other documents such as Commissioning certificate, PPA & JMR, it was observed that the rated capacity of the wind project is 100 MW. The capacity of the project is more than 15 MW and thus the same qualifies as large scale project activity.

WTGs are located at Bagiya, Kansar, Mawta, Nandwell, Ranigaon, Thikriya, Bhandariya, Bhepur, Chandakhedi, Dehari, Dhandhoda, Garoda, Karju and Sagwali, villages of Ratlam & Mandsaur districts of Madhya Pradesh, India. Assessment team also checked the locations of the project activity in the registered revised PDD/passport & Transition Annex, validation report and previous verification monitoring report & verification report and found that the geographical coordinates provided in those documents are in UTM format however depicted as a degree decimal format in these documents Hence, PP has updated MR the geographical coordinates to decimal format which are verified from google map and found to be correct. PP has also submitted the registered PDD (version 2, dated 21/12/2015) with the geographical coordinates in decimal degree format. Also, the locations of each WTG is provided in the Commissioning certificate of the project activity issued by State Utility and found correct in the monitoring report. Thus, locations provided in MR are found inline with revised documents of the project activity and are as below:

S. No	WTG ID	Commissioning date	Latitude (N)	Longitude (E)
1	RM_01	07/11/2014	23° 44' 28.075"	74° 58' 17.419"
2	RM_02	05/04/2015	23° 46' 2.550"	74° 57' 0.942"
3	RM_03	05/04/2015	23° 45' 50.778"	74° 56' 56.742"
4	RM_04	05/04/2015	23° 45' 44.175"	74° 56' 52.646"
5	RM_05	05/04/2015	23° 45' 31.851"	74° 56' 53.004"
6	RM_06	05/04/2015	23° 45' 20.438"	74° 56' 52.126"
7	RM_07	05/04/2015	23° 45' 13.024"	74° 56' 51.705"
8	RM_08	05/04/2015	23° 45' 5.869"	74° 56' 50.400"
9	RM_09	05/04/2015	23° 44' 48.409"	74° 56' 53.869"
10	RM_10	05/04/2015	23° 44' 40.539"	74° 56' 51.258"
11	RM_11	05/04/2015	23° 44' 33.286"	74° 56' 47.552"
12	RM_12	05/04/2015	23° 45' 41.015"	74° 58' 44.783"
13	RM_13	05/04/2015	23° 45' 29.701"	74° 59' 0.506"
14	RM_16	05/04/2015	23° 45' 0.957"	74° 59' 7.999"
15	RM_18	05/04/2015	23° 44' 53.801"	74° 58' 49.207"
16	RM_19	05/04/2015	23° 44' 40.957"	74° 58' 53.907"
17	RM_20	05/04/2015	23° 44' 30.029"	74° 58' 36.282"
18	RM_21	05/04/2015	23° 44' 16.855"	74° 58' 12.264"
19	RM_22	05/04/2015	23° 44' 10.581"	74° 58' 20.178"
20	RM_25	05/04/2015	23° 44' 45.641"	75° 0' 49.350"

S. No	WTG ID	Commissioning date	Latitude (N)	Longitude (E)
21	RM_26	05/04/2015	23° 45' 8.242"	74° 59' 40.994"
22	RM_28	05/04/2015	23° 44' 21.253"	75° 0' 46.839"
23	RM_29	05/04/2015	23° 44' 13.059"	75° 0' 50.582"
24	RM_33	05/04/2015	23° 45' 57.626"	74° 58' 12.594"
25	RM_34	05/04/2015	23° 45' 15.104"	74° 59' 42.831"
26	RM_36	05/04/2015	23° 45' 18.452"	74° 59' 29.123"
27	RM_37	05/04/2015	23° 45' 35.434"	74° 57' 10.526"
28	RM_38	05/04/2015	23° 45' 49.225"	74° 57' 22.745"
29	RM_39	05/04/2015	23° 45' 45.789"	74° 56' 18.906"
30	RM_41	05/04/2015	23° 45' 55.547"	74° 56' 25.826"
31	RM_42	05/04/2015	23° 45' 23.728"	74° 57' 10.318"
32	RM_43	07/11/2014	23° 47' 32.845"	74° 59' 21.058"
33	RM_44	05/04/2015	23° 47' 29.747"	74° 58' 12.750"
34	RM_45	05/04/2015	23° 47' 36.152"	74° 58' 6.070"
35	RM_48	05/04/2015	23° 47' 39.118"	74° 58' 44.623"
36	RM_49	05/04/2015	23° 47' 43.316"	74° 59' 23.990"
37	RM3_01	20/08/2014	23° 50' 29.519"	74° 57' 14.203"
38	RM3_02	20/08/2014	23° 50' 37.583"	74° 57' 11.973"
39	RM3_03	20/08/2014	23° 50' 45.583"	74° 57' 15.470"
40	RM3_08	20/08/2014	23° 50' 32.270"	74° 58' 39.328"
41	RM3_09	20/08/2014	23° 50' 21.832"	74° 58' 37.456"
42	RM3_10	20/08/2014	23° 50' 6.553"	74° 59' 14.328"
43	RM3_11	20/08/2014	23° 50' 25.804"	74° 59' 32.992"
44	RM3_12	25/08/2014	23° 50' 48.892"	74° 59' 48.864"
45	RM3_13	20/08/2014	23° 50' 46.517"	74° 59' 20.122"
46	RM3_14	20/08/2014	23° 51' 3.231"	74° 59' 30.267"
47	RM3_16	20/08/2014	23° 51' 6.901"	74° 58' 44.060"
48	RM3_17	20/08/2014	23° 51' 23.579"	74° 58' 21.783"
49	RM3_18	20/08/2014	23° 51' 31.349"	74° 58' 18.175"
50	RM3_19	20/08/2014	23° 51' 1.759"	74° 58' 16.979"
51	RM3_22	20/08/2014	23° 51' 51.604"	74° 58' 0.138"
52	RM3_23	20/08/2014	23° 51' 25.764"	74° 59' 13.401"
53	RM3_28	20/08/2014	23° 52' 5.757"	74° 58' 51.263"
54	RM3_30	20/08/2014	23° 52' 22.990"	74° 58' 41.855"
55	RM3_32	20/08/2014	23° 51' 59.161"	74° 59' 53.317"
56	RM3_33	20/08/2014	23° 52' 14.671"	75° 0' 15.699"
57	RM3_34	20/08/2014	23° 52' 24.199"	75° 0' 11.174"
58	RM3_35	20/08/2014	23° 50' 51.456"	74° 58' 50.107"
59	RM3_39	20/08/2014	23° 51' 51.292"	75° 0' 0.743"
60	RM3_40	25/08/2014	23° 51' 1.443"	74° 59' 57.136"
61	RM3_41	20/08/2014	23° 49' 57.904"	74° 59' 28.398"
62	RM3_42	20/08/2014	23° 49' 42.687"	74° 59' 32.712"
63	RM3_43	07/11/2014	23° 53' 28.641"	74° 58' 41.490"
64	RM3_44	07/11/2014	23° 53' 41.388"	74° 58' 41.630"
65	RM3_45	07/11/2014	23° 53' 52.021"	74° 58' 44.457"
66	RM3_46	07/11/2014	23° 54' 1.191"	74° 58' 44.809"
67	RM3_48	07/11/2014	23° 54' 27.171"	74° 58' 42.683"

The project is connected to National grid (as per the grid structure of India) and the same is found correct by the assessment team during the review of commissioning certificate, PPA and

interviews with PP. The grid structure as mentioned in the PDD & Transition Annex is still applicable for the project and ex-ante emission factor as proposed in the PDD & Transition Annex is used for emission reduction calculation. Assessment team noted that the project activity has entered a power purchase agreement for a period of 25 years with the Madhya Pradesh Power Management Company Limited. The electricity is fed in the Integrated Indian grid.

The commissioning details as provided in the MR Version 01 & 02 were checked with the commissioning certificates issued by State Utility. The commission certificate is issued by "Government agencies" which is a third-party government firm and thus the commissioning dates are acceptable to the assessment team.

Moreover, there were no changes in host country regulations which may impact either baseline or additionality of the project. Thus, assessment team confirms that the project is implemented as per the revised PDD & Transition Annex and no change in additionality/baseline is envisaged for the present monitoring period.

The amount of GS-VERs achieved during the present monitoring period is lower than the estimated value in the PDD & Transition Annex. This is due to the lower PLF months during the monitoring period. There is no any adverse impact on additionality due to this low PLF of project activity for current monitoring period.

Compliance of the Monitoring Plan with the Monitoring Methodology:

The verification team is able to confirm that the monitoring plan is in accordance with the approved methodology ACM0002 Version 16.0, applied by the proposed GS project activity.

No deviation, correction or permanent change to the monitoring plan has been requested or observed.

Assessment team also checked the Feeder details of the connected Wind turbine and found the same to be appropriate. Feeder details were confirmed from the interviews with PP, Previous verification report and JMRs submitted for current monitoring period.

The feeder details are checked and found correct by the assessment team. The details are as below:

Feeder No	No of WTGs	Capacity
Feeder 1	RM3-34, RM3-33, RM3-32, RM3-39, RM3- 16, RM3-35, RM3-14, RM3-13, RM3-40, RM3-12, RM3-08, RM3-09, RM3-11, RM3- 10, RM3-41 & RM3-42	24 MW
Feeder 2	RM3-48, RM3-46, RM3-45, RM3-44, RM3- 43, RM3-30, RM3-28, RM3-22, RM3-18, RM3-17, RM3-23, RM3-19, RM3-03, RM3- 02, RM3-01	22.5 MW
Feeder 3	RM-49, RM-43, RM-33, RM-12, RM-13, RM-36, RM-34, RM-26, RM-16, RM-18, RM-19, RM-20, RM-21, RM-22, RM-25, RM-28, RM-29	25.5 MW

Feeder 4	RM-48, RM-45, RM-44, RM-01, RM-02, RM-03, RM-04, RM-41, RM-39, RM-05, RM-37, RM-06, RM-42, RM-07, RM-08, RM-09, RM-10, RM-11, RM-38	28.5 MW
Total	67	100.5 MW

Materiality adopted in Verification:

Consideration of materiality in planning the verification

No.	Risk that would lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk levels	Justification	
1	Human errors: Readings from Meters (if not automatic)	LOW	Human error is likely to occur if the monitoring personnel are not trained well or inexperienced in data recording procedures and monitoring processes.	All the personal are well trained to monitor and collect data and thus risk associated with Human error is minimized. Assessment team checked the training records to confirm that all the personal are well trained to handle the activities related to monitoring. Assessment team checked the training records for the complete monitoring period and confirm that the personal are well trained to monitor and collect data for the project activity.
2	Human error: Quantification of emission reduction	LOW	Use of spread sheets without adequate data control, changes/updates, version tracking, traceability and security	All the energy statement i.e. JMR sheets and the invoices for the complete monitoring period are checked and thus the assessment team confirms that the ER value is conservative and correct.

Consideration of materiality in conducting the verification

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 invoices

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.

3.3 Compliance of the Monitoring Plan with the Monitoring Methodology

The verification team is able to confirm that the monitoring plan is in accordance with the approved methodology ACM0002 Version 16.0, applied by the proposed GS project activity.

3.4 Completeness of Monitoring

The monitoring has been carried out in accordance with the monitoring plan contained in the transitional document. All parameters were monitored and determined as per the monitoring plan of the transitional documents as follows:

a. Data and parameters fixed ex ante or at renewable of crediting period

$EF_{OM,y}$, $EF_{BM,y}$ & $EF_{CM,y}$, were mentioned as ex-ante fixed parameter. Assessment team checked the values, source of data, choice of data, purpose of the data mentioned in the MR from the revised PDD & Transition Annex and confirms that the similar approach was considered for the current monitoring period also.

The value for $EF_{OM,y}$, $EF_{BM,y}$, $EF_{CM,y}$ was considered from the CO₂ baseline database published by Central Electricity Authority (CEA) version 10.0. The default value as mentioned in the revised PDD & Transition Annex and submitted MR are same. The value of combined margin in India is being given by CEA (= Central Electricity Authority, Govt of India) and thus assessment team concludes that the value is correct and appropriate. The default value in turn is used for baseline calculation as per the formula given in the revised PDD & Transition Annex for the current monitoring period.

The ex-ante fixed value as per revised PDD & Transition Annex is as below. The same values are used for the current monitoring period for the calculation of baseline emission.

$$EF_{OM,y} = 0.9862 \text{ tCO}_2\text{e/MWh}$$

$$EF_{BM,y} = 0.9495 \text{ tCO}_2\text{e/MWh}$$

$$EF_{CM,y} = 0.9770 \text{ tCO}_2\text{e/MWh}$$

b. Data and parameters monitored

As per the registered monitoring plan and requirement of the registered methodology following parameters needs to be monitored:

Relevant SDG indicators = 7.2.1 Renewable energy share in the total final energy consumption

$EG_{\text{facility},y}$ = Quantity of net electricity supplied to the grid during the year y.

The parameter $EG_{\text{facility},y}$ is calculated using the difference of export and import value measured from the electricity meter. Net electricity supplied to the grid for individual project activity is then calculated as below

$$\text{Net Electricity} = \text{Billed Export} - \text{Import}$$

Since Billed export is calculated as Export-transmission loss,

Net Electricity = (Export – Transmission Loss) – Import

The Meter Reading Statement (i.e., JMR sheets) issued by State board which provide the values of export and import for the month. The same is thus used for emission reduction calculation. The total energy exported/imported to/from the grid by project is measured by State electricity board via (electronic tri-vector main meter which measures both export & import monthly) connected to the turbines. For billing purpose, the meter readings shall be measured on monthly basis jointly by the representative of State electricity board and the Project Participant and the PP has no control over the process. On the basis of this reading, Quantity of net electricity supplied to the grid shall be calculated and the statement shall be issued to Project Participant. Based on the statement the Invoice is raised by PP to State electricity board. The practice followed onsite is as per the registered PDD and registered Passport/Transition Annex. The meter reading is taken during a fixed billing cycle of every month and representative of state electricity board and Operation and maintenance personal onsite present during the process. The export and import reading is continuous and recording frequency is monthly. The QA/QC procedure is as per the requirement of the registered GS PDD and onsite practice. Assessment team confirms the same during the telephonic/Skype interviews with PP. Assessment team checked all the values of calculated Net electricity supplied to the grid from the Meter reading statement (provides the value of export and import) issued by State electricity board. Moreover, as per the requirement of the approved methodology and revised PDD and passport/Transition Annex assessment team cross checked the net electricity value as presented in the JMR with the invoice raised and found the values match with each other. The same is thus acceptable to the assessment team and thus emission reduction calculation is correct.

c. Implementation of sampling plan

PP did not apply sampling plan to determine data and parameters monitored during this monitoring period. The verification team has checked all the documents such as JMR issued by State electricity board /Invoices etc. and hence sampling plan was not required. The verification team hereby confirms that has checked all the documents.

d. Compliance with the calibration frequency requirements for measuring instruments

The metering arrangement is tri-vector bi-directional energy meters (main and check) at the substation. These meters record several parameters including electricity exported & imported. These electricity meters are being used by state officials to obtain the value of export and import and hence Net electricity supplied is calculated based on these values.

The calibration details such as make, accuracy class serial number is as per the meter available were checked during verification review from calibration certificates and interviews with PP & photographs submitted by PP.

The calibration details are as below:

As per the revised PDD & Transition Annex, calibration of meters is under the control of State Utility and frequency of calibration is not within the control of PP. However, as the PDD & Transition Annex the PP shall ensure at least once in a year calibration as per the national standard. During the monitoring period the meters have been calibrated and there has been no error or fault in the meters identified during the latest calibration as well.

All the meters are of "Secure" Make with 0.2s Accuracy class. Below are the details of meter numbers and calibration dates, the meters are calibrated during the monitoring period have been detailed below:

Energy Meter Serial No Details			Calibration dates	Calibration Validity	Calibration compliance
220/132 kV Daloda GSS	Main Meter	MPC65127	20/03/2019 10/03/2020	19/03/2020 09/03/2021	No Delay
	Check Meter	MPC65126	20/03/2019 10/03/2020	19/03/2020 09/03/2021	No Delay

All the above meters are installed at pooling substation this is verified from the revised PDD and from the Joint meter reading statements.

The Calibration details are presented in section D.2 of the MR. Calibration Agency for all the meters is State electricity board (= Meter and testing division of SEB). As per the PPA, the calibration dates and frequency is under the control of State electricity board (= Meter and testing division of SEB).

The calibration is done by State nodal agency (Meter Testing division), which is accredited Laboratory from National Accreditation Board for Testing and Calibration, Govt. of India (<http://www.nabl-india.org/>) to carry out calibration.

Assessment team checked the same and found that the calibration is appropriate and correct as traceability is ensured. The meters were calibrated as per the norms of NABL and the meters are within the permissible error limit.

3.5 SDG Outcomes Monitoring

Meth/tool	Relevant indicator	SDG	Parameter as per PDD/GS4GG Annex	Parameter as per MR	Compliance
Quantity of net electricity supplied to the grid during the year y.	SDG 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix		Quantity of net electricity supplied to the grid during the year y.	Quantity of net electricity supplied to the grid during the year y.	Yes
Quality of employment	SDG 8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value		Trainings provided to employees & O&M staffs	Trainings provided to employees & O&M staffs	Yes
Quantitative employment and income	SDG 8.5: By 2030, achieve full and productive employment		- Cost spent for O&M - Number of	- Cost spent for O&M - Number of O&M	Yes

generation	and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value	O&M staffs involved in the project Total employment generated due to the implementation of project activity and the amount spent for O&M activities due to the project.	staffs involved in the project Total employment generated due to the implementation of project activity and the amount spent for O&M activities due to the project.	
Air Quality	13.2: Integrate climate change measures into national policies and planning.	Air Quality	Air Quality	Yes
Soil Erosion	4.2.2: Erosion and/or Water Body Instability	Soil Erosion	Soil Erosion	Yes
Maintenance of Landscape visual impact	4.3.1: Landscape Modification and Soil	Maintenance of Landscape visual impact	Maintenance of Landscape visual impact	Yes
Species Mortality & Bird Strikes (Bird & Bat Deaths)	4.3.11: Endangered Species	Species Mortality & Bird Strikes (Bird & Bat Deaths)	Species Mortality & Bird Strikes (Bird & Bat Deaths)	Yes

In the Registered PDD version 02 dated 21/12/2015 & Transition Annex indicators are chosen for the monitoring of sustainable monitoring:

The verification of the parameters required by the monitoring plan is provided as follows:

Relevant SDG Indicator	SDG 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix			
Data/parameter:	EG _{facility,y}			
Unit	MWh			
Description	Quantity of net electricity supplied to the grid during the year y.			
Source of data checked by the assessment team	Monthly generation statement/JMR/B-form provided by State Utility			
Value(s) of monitored parameter		Export (MWh)	Import (MWh)	Net Generation (MWh)
	Vintage			
	01/08/2020 to 31/12/2020	58,932	78	58,854
	Total	58,932	78	58,854

Means of verification:	Assessment team checked that the parameter is calculated. Energy meters of 0.2s accuracy class provided at each WTG continuously measure the export as well as the import from the turbine at the project site. The net electricity exported is being calculated by subtracting import from the export and transmission losses values measured for each WTG. For billing purpose, the meter readings shall be measured on monthly basis jointly by the representative of State electricity board and the Project Participant and the PP has no control over the process. On the basis of this reading, Quantity of net electricity supplied to the grid is calculated and the JMR/Form-B issued by State Utility to Project Participant. Based on the JMR/Form-B the Invoice is raised by PP to State electricity board. The practice followed onsite is as per the revised PDD & Transition Annex. The meter reading is taken during a fixed billing cycle of every month and representative of state electricity board and Operation and maintenance personal onsite present during the process. The details of the Meters are provided in appendix 2 of the report.
Cross check mechanism	The JMR is cross-checked with the invoice copies. Emission reduction calculated in thus correct and accurate. The cross-check mechanism is presented in the emission reduction calculation sheet and the same is found correct.

Relevant SDG Indicator	SDG 8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value							
Data/parameter:	Quality of employment							
Unit	Number of Trainings provided to employees & O&M staffs							
Description	Trainings provided to employees & O&M staffs							
Source of data checked by the assessment team	Training Records, HSE & HR records							
Value(s) of monitored parameter	Assessment team checked Number of Trainings provided to employees & O&M staffs. A total of ~~17~~<u>11</u> training programmes to its employees and O&M staffs. <table><tr><th>Vintage</th><th>Number of Training</th></tr><tr><td>01/08/2020 to 31/12/2020</td><td>~~17~~<u>11</u></td></tr><tr><td>Total</td><td>~~17~~<u>11</u></td></tr></table> The training records for the monitoring period is checked by the assessment team and found correct. <u>Further, Only Technical training & Soft skills trainings are includes under SDG 8 as EHS trainings are emerging from the safeguarding principles & not contributing towards SDG 8.</u>		Vintage	Number of Training	01/08/2020 to 31/12/2020	~~17~~ <u>11</u>	Total	~~17~~ <u>11</u>
Vintage	Number of Training							
01/08/2020 to 31/12/2020	~~17~~ <u>11</u>							
Total	~~17~~ <u>11</u>							
Means of verification:	The value for this parameter is taken from Plant records / Letter from O&M contractors for employment generation. Verification team interviewed some employees & local stakeholders.							
Cross check mechanism	Not applicable							

Relevant SDG Indicator	SDG 8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value
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Data/parameter:	Quantitative employment and income generation												
Unit	- Cost spent for O&M - Number of O&M staffs involved in the project												
Description	Total employment generated due to the implementation of project activity and the amount spent for O&M activities due to the project.												
Source of data checked by the assessment team	Plant employment records and O&M Contract etc.												
Value(s) of monitored parameter	Cost spent on O&M <table border="1"> <thead> <tr> <th>Vintage</th><th>O&M Cost Spent (Mn INR)</th></tr> </thead> <tbody> <tr> <td>01/08/2020 to 31/12/2020</td><td>48</td></tr> <tr> <td>Total</td><td>48</td></tr> </tbody> </table> Total Employment <table border="1"> <thead> <tr> <th>Vintage</th><th>Number of Jobs provided</th></tr> </thead> <tbody> <tr> <td>01/08/2020 to 31/12/2020</td><td>91</td></tr> <tr> <td>Total</td><td>91</td></tr> </tbody> </table> Total 91 employment generation	Vintage	O&M Cost Spent (Mn INR)	01/08/2020 to 31/12/2020	48	Total	48	Vintage	Number of Jobs provided	01/08/2020 to 31/12/2020	91	Total	91
Vintage	O&M Cost Spent (Mn INR)												
01/08/2020 to 31/12/2020	48												
Total	48												
Vintage	Number of Jobs provided												
01/08/2020 to 31/12/2020	91												
Total	91												
Means of verification:	Assessment team checked O&M contract as well as employment records and found that values in the MR is correct.												
Cross check mechanism	NA												

Relevant SDG Indicator	13: Climate Change						
Data/parameter:	Air Quality						
Unit	CO ₂ emission reduction and reduction in dust generation						
Description	In order to reduce dust emissions during the construction phase, the following dust suppression measures stipulated and implemented: - Spraying water and covering material trucks' body to minimize dust; - Reuse of water for sprinkling of unpaved roads. - Imposition of speed controls for vehicles and unpaved site roads; - Well-maintained diesel-powered mechanical equipment to avoid black smoke emissions; - Shut-down of diesel-powered mechanical equipment or trucks inside the worksites when they are not in operation.						
Source of data checked by the assessment team	Central Electricity Authority: "CO ₂ Emission Database CEA CO ₂ Baseline database Version 10" published by Central Electricity Authority (CEA), Ministry of Power, Government of India. http://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver10.pdf						
Value(s) of monitored parameter	<table border="1"> <thead> <tr> <th>Vintage</th><th>Emission Reduction (tCO₂)</th></tr> </thead> <tbody> <tr> <td>01/08/2020 to 31/12/2020</td><td>57,500</td></tr> <tr> <td>Total</td><td>57,500</td></tr> </tbody> </table> The applied OM & BM for the project are as following: Operating Margin: 0.9862 tCO₂/MWh Build Margin: 0.9495 tCO₂/MWh The applied Combined margin for the project activity is 0.9770 tCO₂/MWh. This high emission factor signifies the fact that the electricity being fed in	Vintage	Emission Reduction (tCO ₂)	01/08/2020 to 31/12/2020	57,500	Total	57,500
Vintage	Emission Reduction (tCO ₂)						
01/08/2020 to 31/12/2020	57,500						
Total	57,500						

	the Indian grid (earlier INDIAN) is highly carbon intensive. Every MWh of electricity generated by the project activity prevents further emissions. During Commissioning phase dust generation was controlled through strict practice of control measures at site which includes no soil piles, open trucks, controlled vehicle speed. It also includes sprinkling of water if required. The current monitoring period there has been no activity of excavation or road pavements. The project makes positive impact on this parameter. It resulted in emission reductions hence is helping in climate change mitigation
Means of verification:	Assessment team checked the Project logbook, O&M policy and Had a interview with O&M team. The interview with the O&M team revealed that the project operation has minimalistic ground activities which does not result in any dust emissions.
Cross check mechanism	NA

Relevant SDG Indicator	4.2.2: Erosion and/or Water Body Instability
Data/parameter:	Soil Erosion
Unit	NA
Description	Any change in top soil around the establishment of project.
Source of data checked by the assessment team	Checked via Project O&M HSE logbook, or interview with maintenance staff.
Value(s) of monitored parameter	Not applicable
Means of verification:	Assessment team checked the O&M HSE logbook and had an interview with maintenance staff. The O&M log book records all the parameters as listed: 1) Hazardous waste generated, disposed, any spillages 2) Waste oil generated, disposed, any spillages 3) Leakage of any diesel or waste oil This parameter has a neutral (0) impact as there have been no incidences of oil leakage or inappropriate disposal of hazardous or waste oil during the monitoring period. Moreover, assessment team checked the grievance register and found that no any formal complaint received from the local stakeholders regarding soil erosion because of the implementation of the project activity. The copy of register is checked by the assessment team during the document review and found correct. Also, Re-vegetation taken up as necessary after construction, in order to reduce the risk of soil erosion.
Cross check mechanism	NA

Relevant SDG Indicator	4.3.1: Landscape Modification and Soil
Data/parameter:	Maintenance of Landscape visual impact
Unit	Aesthetics
Description	Detailed ESIA study conducted to understand if any of the location needs to be altered. Locals were consulted wherever a WTG location or access road was in vicinity to a settlement. The WTGs are painted with non-reflect paints and are not glary. Re-vegetation taken up as necessary after construction, in order to reduce the risk of soil erosion.

Source of data checked by the assessment team	Checked via Project Grievance register, or interview with local villagers
Value(s) of monitored parameter	Not applicable
Means of verification:	Assessment team checked Detailed ESIA study conducted to understand if any of the location needs to be altered. Locals were consulted where ever a WTG location or access road was in vicinity to a settlement. The WTGs are painted with non-reflect paints and are not glary. Re-vegetation taken up as necessary after construction, in order to reduce the risk of soil erosion. Moreover, No significant visual impact observed and no grievances received. Vegetation has been grown where ever possible in the project's land. Apart from this the project proponent has planted a number of trees to improve the landscape visual impact. The parameter has a neutral (0) impact as there are no grievances received or registered. The WTGs are spread across the terrain and hence have minimalistic presence.
Cross check mechanism	NA

Relevant SDG Indicator	4.3.11: Endangered Species
Data/parameter:	Bird & Bat Deaths
Unit	Bird Carcass Count
Description	- During the siting activity, it was ensured that there are no water bodies beside WTGs. - Water pits are not allowed around the WTGs. - None of the area of WTGs erection or transmission lines are under sensitive or under areas of conservation importance - The transmission lines wherever required has reflectors - Storm water control around within 100m of every WTG
Source of data checked by the assessment team	Checked via Bird Strike register, or interview with local villager
Value(s) of monitored parameter	0
Means of verification:	The O&M team maintains a Bird strike register. As per the record, there are no observed carcasses in vicinity of the WTGs. Assessment team checked the Bird Strike register and interviewed some local stakeholders.
Cross check mechanism	NA

During the interviews with PP, the verification team confirmed that there is a grievance book/form with GS contact information in the lobby of the project site office and is accessible to local stakeholders. By checking grievance book submitted by PP, it was able to confirm there are no comments received from the local people for the present monitoring period. Local people are happy with the implementation of the project activity as it entrust employment and improve living standard of local people and villagers.

Comparison of actual value of outcomes with estimates in approved GS PD

SDG	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
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SDG 7: Affordable and Clean Energy	75,652 MWh electricity generation	58,854 MWh electricity generation
SDG 8: Decent Work and Economic Growth	No. of trainings given: 1 O&M Cost: 39 Mn INR No. of employment created: 89	No. of trainings given: ~~1711~~ O&M Cost: 48 Mn INR No. of employment created: 91
SDG 13: Climate Action	73,914 tCO ₂ e emission reduction	57,500 tCO ₂ e emission reduction

Assessment team also checked that the projects are not registered under the REC mechanism of India and the same can be cross-checked at <https://recregistryindia.nic.in>. Also International REC (I-REC) registry (<https://evident.services/device-register>) is cross-checked and found that this project is not under I-REC as well. Thus, double counting for the current monitoring period is ruled out.

Assessment team also checked the other registry like UNFCCC and VCS and found that project is not registered with UNFCCC or VCS.

Applus+ Certification conducted an interview with the project owner and local stakeholders please find the summary of the interview as below:

Sections	Debriefing
Trainings & salaries of the employees	During remote audit Mr. Murali Krishnam Raju, of PP representative team and Ravikumar of O&M company was interviewed. It was noted that regular technical & nontechnical trainings were conducted and the salaries are in line with the industry standard.

In Summary, it is Applus+ Certification's opinion that the monitoring of the project owner regarding to sustainability is in line with requirement of the GS4GG guideline.

Summary of ex-post values of each SDG outcome for the current monitoring period

Item	Baseline estimate	Project estimate	Net benefit
SDG 7: Affordable and Clean Energy	Electricity supplied to grid (MWh)	Electricity supplied to grid (MWh)	Electricity supplied to grid (MWh)
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	Total	Total	Total
SDG 8: Decent Work and Economic	No of training	No of training	No of training
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	Total	Total	Total

Item	Baseline estimate	Project estimate	Net benefit
Growth	Cost spent on O&M (Mn INR)	Cost spent on O&M (Mn INR)	Cost spent on O&M (Mn INR)
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	0	48	48
	Total	Total	Total
	0	48	48
SDG 13: Climate Action	Number of O&M staff	Number of O&M staff	Number of O&M staff
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	0	91	91
	Total	Total	Total
	NA	NA	NA
SDG 13: Climate Action	GHG Emission Reduction (tCO2)	GHG Emission Reduction (tCO2)	GHG Emission Reduction (tCO2)
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	57,500	57,500	57,500
	Total	Total	Total
	57,500	57,500	57,500

Comparison of actual value of outcomes with estimates in approved GS PDD

Item	Values estimated in ex ante calculation of approved PDD	Actual values achieved during this monitoring period
SDG 7: Affordable and Clean Energy	Electricity supplied to grid (MWh)	Electricity supplied to grid (MWh)
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	75,652	58,854
	Total	Total
SDG 8: Decent Work and Economic Growth	No of training	No of training
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	01	1711
	Total	Total
	01	1711
	Cost spent on O&M (Mn INR)	Cost spent on O&M (Mn INR)
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	39	48
	Total	Total
	39	48
	Number of O&M Staff	Number of O&M Staff
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	89	91
	Total	Total
	NA	NA
SDG 13: Climate Action	GHG Emission reduction (tCO2e)	GHG Emission reduction (tCO2e)
	01/08/2020 to 31/12/2020	01/08/2020 to 31/12/2020
	73,914	57,500
	Total	Total
	73,914	57,500

3.6 Assessment of Data and Calculation of Greenhouse Gas Emission Reductions

As a result of verification of the ER calculation process, the assessment team confirmed that all the parameters required for the determination of the emission reductions have been included in the Monitoring report Version 1.0, Monitoring report Version 2.0~~1~~₁ and corresponding ER calculation spread-sheets and are consistent with the applied methodology ACM0002 Version 16.0 and the monitoring plan contained in the revised PDD & Transition Annex. The parameters are complete in this monitoring period.

After verifying the reported figures with the raw data sources, it's confirmed that the values of the parameters from the raw data sources are consistent with those quoted in the Monitoring Report Version 1.0, Monitoring report Version 2.0~~1~~₁ and corresponding ER calculation spread-sheets. The verification process for the same has been clearly described in above section of the report. See below for the detailed data:

Baseline Emissions for the amount of electricity supplied by project activity, BE_y is calculated as:

The baseline emission is calculated in line with para 44 of AC0002, Version 17, using equation below:

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

Where,

BE_y = Baseline emissions in year y (tCO₂/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 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" (tCO₂/MWh)

AS per para 46 of ACM0002, version 17, when the project activity is installation of Greenfield power plant, then:

$$EG_{PJ,y} = EG_{facility,y}$$

Where,

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

$EF_{grid,CM,y}$ = Baseline Emission factor
 = 0.9770 tCO₂/MWh

Year	Period	$EG_{PJ,y} / EG_{facility,y}$ (MWh)	$EF_{grid,CM,y}$ (tCO ₂ /MWh)	BE_y^* (tCO ₂)
2020	01/08/2020 to 31/12/2020	58,854	0.9770	57,500
Total		58,854	0.9770	57,500

*round down figure

Thus, the baseline value of each SDG outcome are summarised as follows;

Item	Baseline value
SDG 7: Affordable and Clean Energy	No Activities in the baseline
SDG 8: Decent Work and Economic Growth	No Activities in the baseline
SDG 13: Climate Action	Emission of 57,500 tCO _{2e}

Project emissions:

The project is a Wind power project, no fossil fuel is be consumed according to the methodology ACM0002 Version 16.0 & according to registered PDD, $PE_y = 0 \text{ tCO}_2e$

Leakage:

As per ACM0002 Version 16.0, No leakage emission needs to be considered.

Emission reductions:

Thus the emission reductions are:

$$ER_y = BE_y - PE_y$$

$$= 57,500 - 0 = 57,500 \text{ tCO}_2e$$

The actual achieved emission reduction for this monitoring period is 22.20% lower than estimated value in the GS PDD (57,500 tCO_{2e} against estimated 73,914 tCO_{2e} for 153 operational days with 176,331 tCO_{2e}/annum). The reductions in actual emission reduction are justified, since during the current monitoring period, the plant underwent scheduled maintenance and breakdown. Also being a wind power project, the generation is nature dependent.

3.7 Management and Operational System

The responsibilities of data measurement, collection, verifying, archiving etc. have been clearly defined in the revised PDD (version 05 dated 21/12/2015) & Transition Annex. The same practice is followed onsite and it is confirmed by the assessment team during the interviews with PP. The data related to ER calculation as well as data monitoring, collection process etc. have been internally reviewed by the management of the Monitoring team regularly. The responsibility of each function is consistent with the monitoring plan in the revised PDD (version 2.0 dated 21/12/2015) & Transition Annex.

The information flow of each parameter has been verified by the assessment team via interviewing with responsible personnel.

It's verified during the interviews with PP & document review, the monitoring procedure as well as the internal quality management and control procedures are stipulated in the registered PDD. The monitoring personnel have been interviewed by the assessment team and it's confirmed that the monitoring is implemented as per the procedure. Also the training record has been checked by the assessment team and it is confirmed that the monitoring personnel are get sufficient train to perform the monitoring.

All the data and documents, either hard copies or soft copies, is kept for two years after the end of the last crediting period or the last issuance of GS VERs for this Project, whichever occurs later.

4. REFERENCE

LIST OF DOCUMENTS	
S. No.	Document/Evidence/Reference/Web link, Version, Date
/01/	Monitoring Report Version 1.0 dated 15/05/2021 Monitoring Report Version 2.0 dated 30/06/2021 Monitoring Report Version 2.0-1 dated 30/06/2021 16/09/2021
/02/	ER sheets version 1.0 dated 15/05/2021
/03/	Registered PDD Version 02 dated 21/12/2015 Transition Annex for the project activity 4 th Final Verification Report version 1.0 dated 26/01/2021
/05/	ACM0002 Version 16.0 Tool to calculate the emission factor for an electricity system"
/06/	CDM validation and verification standard for project activities, Version 02.0
/07/	GS4GG guideline
/08/	Training records of the employees (both skilled/non-skilled)
/09/	O&M policy
/10/	Monthly reports issued by state utility and invoices raised by PP for the complete monitoring period
/11/	Calibration certificates of the complete monitoring period
/12/	Commissioning certificates for power plant
/13/	Log book records for scheduled maintenance of the power plant for the complete monitoring period
/14/	Sample work contract for both skilled and non-skilled manpower
/15/	CSR report
/16/	Grievance register
/17/	HSE procedures
/18/	Power purchase agreement
/19/	O&M agreement
/20/	Technical manual from the Manufacturer
/21/	Declaration for no double counting of the emission reductions
/22/	Bird strike register
/23/	ERPA dated 16/03/2021 signed for the purchase of the credits from the project activity
/24/	Skype and telephonic interviews carried out with PP as part of remote audit due COVID-19 situation in India

5. FINAL VERIFICATION STATEMENT

Applus+ Certification has been engaged by Orange Mamatkhedha Wind Private Limited (OMWPL) to perform the 5th periodical verification of the “100.5 MW Wind Power Project in Madhya Pradesh, India” (GS Ref. No. GS3969).

The management of Orange Mamatkhedha Wind Private Limited (OMWPL) is 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 revised PDD (version 02 dated 21/12/2015) and the applied methodology ACM0002 Version 16.0.

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 Gold Standard. 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. A reasonable level of assurance have been achieved during this verification. The verification can confirm that:

- the project is operated as planned and described in the project design document and PDD approved by the EB and GS;
- the monitoring plan is as per the applied methodology;
- the monitoring in Monitoring Report is as per the PDD and the monitoring plan approved by the EB and GS;
- the development and maintenance of records and reporting procedures are in accordance with the registered 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.

In our opinion, the GHG emission reductions for “100.5 MW Wind Power Project in Madhya Pradesh, India” for the monitoring period 01/08/2020 to 31/12/2020 (Both days included) as reported in Monitoring Report, prepared on the basis of the project’s Monitoring Plan are fairly stated.

Based on the information we have seen and evaluated, we confirm the following statement:

Reporting period: 01/08/2020 to 31/12/2020 (Both days included)

Verified emissions in the above reporting period:

Leakage emissions	0 tCO ₂ e equivalents
Project emissions	0 tCO ₂ e equivalents
Baseline emissions	57,500 tCO ₂ e equivalents
Emission reductions	57,500 tCO ₂ e equivalents

Vintage wise breakup of verified emission reduction (SDG 13 impact) is given below:

Vintage	Period	Emission Reduction Achieved (tCO ₂ e)
Year 2020	01/08/2020 to 31/12/2020	57,500
Total	01/08/2020 to 31/12/2020	57,500

SDG 7:

Vintage	Period	Electricity supplied to grid (MWh)
~~Year 2020~~ Year 2018	01/08/2020 to 31/12/2020	58,854
Total	01/08/2020 to 31/12/2020	58,854

SDG 8:

Vintage	Period	No of training	Cost spent on O&M (Mn INR)	Number of O&M Staff
~~Year 2020~~ Year 2018	01/08/2020 to 31/12/2020	~~1711~~	48	91
Total	01/08/2020 to 31/12/2020	~~1711~~	48	91

Date: ~~09/08/2021~~ 20/09/2021

Lead Auditor: Dr. Atul Takarkhede

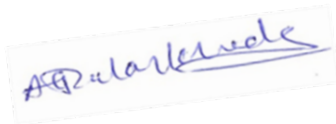
Tech. Expert: Dr. Atul Takarkhede

Auditor: N/A

Tech. Reviewer: Mr. Denny Xue

Approver (*Applus+ Certification, VVB Technical Manager*)

Mr. Agustín Calle de Miguel

ASSESSMENT TEAM	
Team Leader Dr. Atul Takarkhede	Technical Reviewer: Mr. Denny Xue
Signature: 	Signature: 
Approver: Mr. Agustín Calle de Miguel	
Signature: 	

Appendix 1: Corrective Action Request/Clarification Request/Forward Action Request resolution table

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	01
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.2
Description of the audit finding		Date:	23/06/2021
Following discrepancies observed during the review of monitoring report: 1. Alteration in template observed for section D.3 for parameter comparison table. 2. Table 2 and Section E of the MR not completed inline with guidelines to complete GS MR. Corrective actions sought. 3. PP requested to submit technical specifications of the power plant, PPA, O&M agreements and grievance records.			
Project Participant's response		Date:	30/06/2021
1. The template format is now retained in section D.3 for parameter comparison table. 2. Table 2 and Section E of the MR are completed inline with guidelines to complete GS MR. 3. The technical specifications of the power plant, PPA, O&M agreements and grievance records are submitted now			
Documentation provided as evidence by Project Participant			
Revised MR Technical specification of WTG O&M contract Grievance register			
Auditor's assessment comment		Date:	08/07/2021
1. PP has rectified Section D.2 of revised and found inline with the guidelines to complete GS4GG MR template. Hence accepted. 2. Revision has been made in respective sections and tables. Also found inline with the guidelines to complete GS4GG MR template. Hence accepted. 3. PP has submitted document for Technical Specification of "ReGen" V87 model WTG, to the assessment team. During review, WTG's specifications mentioned in revised MR found inline with submitted document. Hence accepted. CAR01 is closed.			

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	02
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.5
Description of the audit finding		Date:	23/06/2021
PP have submitted JMR & invoices for the project activity and net electricity export values found correct. However, JMR for the month of August 2020 missing. Corrections requested. Further, PP requested to submit evidenced for all SDG 8 parameters and safeguarding principles monitoring parameters /indicators Bird & Bat Deaths, Landscape Modification and Soil, Erosion and/or Water Body Instability, Achieve universal health coverage etc.			
Project Participant's response		Date:	30/06/2021

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	02
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.5
The August 2020 JMR is now provided The Employment records, HSE records & Bird & bats strike registers are submitted as evidence for SDG 8 and safeguarding parameters.			
Documentation provided as evidence by Project Participant			
Employment records HSE records Bird & bats strike register			
Auditor's assessment comment		Date:	08/07/2021
August 2020 JMR has been accepted and Assessment team verified all monthly electricity generation successfully. Moreover, also verified other parameters with the help of Employment records, HSE records and Bird & Bats strike register. Team found all are consistent with the revised MR. thus accepted. CAR02 is closed.			

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	03
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.4
Description of the audit finding		Date:	23/06/2021
The details of monitoring meters and calibration dates are provided in the MR. PP requested to submit records of the calibration. Corrective action is sought for the same.			
Project Participant's response		Date:	30/06/2021
The calibration records are now submitted			
Documentation provided as evidence by Project Participant			
Calibration records			
Auditor's assessment comment		Date:	08/07/2021
PP have submitted Calibration reports relevant to the current monitoring period and dates provided in the MR found correct. CAR thus closed.			

Type:	☒ CAR ☐ CL/CR ☐ FAR	Number:	04
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.6
Description of the audit finding		Date:	23/06/2021
- Section E of the MR not completed inline with the guidelines to complete MR. - PP requested to submit supporting documents for all the monitoring parameters. Corrective actions sought for above findings.			
Project Participant's response		Date:	30/06/2021

1. The section E of the MR is completed in line with the guideline to complete MR 2. Supporting documents for all monitoring parameters are now provided.		
Documentation provided as evidence by Project Participant		
Revised MR Supporting documents for all monitoring parameters		
Auditor's assessment comment	Date:	08/07/2021
1. Revised Section E in MR v.02 found inline with the guidelines to complete GS4GG MR. hence accepted. 2. PP has submitted supporting documents for all monitoring parameter to assessment team. And during review, Values in revised MR found consistent with supporting thus accepted. Hence CAR04 is closed.		

Appendix 2: Calibration details of monitoring meters

The calibration details of Main and Check Meter at Delivery Point is as below:

Energy Meter Serial No Details			Calibration dates		Calibration compliance
220/132 kV Daloda GSS	Main Meter	MPC65127	20/03/2019 10/03/2020	19/03/2020 09/03/2021	No Delay
	Check Meter	MPC65126	20/03/2019 10/03/2020	19/03/2020 09/03/2021	No Delay

All meters installed above are of Secure make and 0.2s accuracy class.

Appendix 3: Audit Team CVs

Name	SHORT CV. BACKGROUND INFORMATION
Dr. Atul Takarkhede	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.
Mr. Denny Xue	Mr. Denny Xue (Master's Degree in Environmental Engineering, Bachelor's Degree in Thermal 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 technical review with Applus+. Before he joined Applus+ LGAI, he has been working for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development.