

**VERIFICATION REPORT
AND
CERTIFICATION STATEMENT**

Of

Wind Power Project in Madhya Pradesh by OBWPPL

(GS Ref. No. 4962)

**Monitoring period #1: 05/0~~6~~5/2016 to 31/03/2018 (Both
days included)**

APPLUS Report No. 6018 GS VER

Client: Orange Bercha Wind Power Private Limited

DATE: ~~08/01/2019~~04/04/2019

Report No.	Date of first issue	Revision No.	Date of this revision
6018 GS VER	23/10/2018	0 4 3	08/01/2019 04/04/2019
Subject	GS 1 st periodic Verification		
Client	Orange Bercha Wind Power Private Limited		
Project Title	Wind Power Project in Madhya Pradesh by OBWPPL		
Project Participants	Orange Bercha Wind Power Private Limited		
Project Location	The project activity is located in the villages of Jhar, Sandala, Dhanesra, Kamed villages of Ratlam district, in the state of Madhya Pradesh, India		
Contact Person	Mr. Pavan Gupta		
Monitoring period:	05/0 6 5/2016 to 31/03/2018 (Both days included)		
Initial Monitoring Report (version/date)	Version 01; 12/07/2018		
Final Monitoring Report (version/date)	Version 02-1; 08/01/2019 Version 03 dated 27/03/2019		
Applied Methodology/Version	ACM0002 "Grid-connected electricity generation from renewable sources" Version 17.0		
Scope	1		
Technical Area	1.2		
Registered PDD:	https://mer.markit.com/br-reg/public/project.jsp?project_id=103000000011181		
Registered Passport	Registered PDD, Version 05, 22/03/2018 Registered Passport, Version 05, 11/06/2018		
Summary:			
<p>LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by Orange Bercha Wind Power Private Limited to perform the first periodical verification of "Wind Power Project in Madhya Pradesh by OBWPPL" (GS Ref. No. 4962) applying the methodology ACM0002 version 17.0. The management of Orange Bercha Wind Power Private Limited is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.</p> <p>A desk review and a site visit have been conducted to verify the data submitted in the monitoring report. Applus+ Certification confirms the following has been reviewed:</p> <ol style="list-style-type: none"> The registered PDD and Passport, including the monitoring plan and the corresponding validation report; Monitoring report(s); 			

- c. The applied monitoring methodology;
- d. Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board;
- e. The Gold Standard Toolkit Version 2.2 and related Annex.
- f. All information and references relevant to the project activity's resulting in emission reductions.

The project activity generates clean electricity with utilization of wind energy. The project consists of 25 Wind Turbine Generators (WTGs) of Gamesa G 97 turbines of 2 MW each.

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 registered PDD and Passport

Applus+ Certification confirms that the project is implemented in accordance with the validated and registered PDD and Passport. The monitoring plan complies with the applied methodology ACM0002 version 17.0 and the Gold Standard Toolkit Version 2.2, 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+ Certification confirms that the implementation of the project has resulted in 202,064 tCO₂e emission reductions during period 05/06/2016 to 31/03/2018 (Both days included)

Assessment team	Role	Organization
Sukanta Das	LA/TE	True Quality Certifications private Limited-Outsourced entity
Reviewer team	Role	Organization
Denny Xue	TR	Applus+ Certification

ABBREVIATIONS

ACM	Approved Consolidated Methodology
AM	Approved Methodology
AMS	Approved Methodology Small Scale
Applus+ LGAI	LGAI Technological Center, S.A. (Applus)
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CER	Certified Emission Reduction
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)
GS	Gold Standard
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-Governmental Organization
TAC	Gold Standard Technical Advisory Committee
OM	Operational Margin
PDD	Project Design Document
PP	Project Participant
UNFCCC	United Nations Framework Convention for Climate Change
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 Bercha Wind Power Private Limited to perform the 1st periodical verification of "Wind Power Project in Madhya Pradesh by OBWPPL" applying the methodology ACM0002 version 17.0 and the Gold Standard Toolkit Version 2.2/08/. 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 comply with the requirements of paragraph 62 of the CDM Modalities and Procedures as well as the Gold Standard Toolkit Version 2.2/08/. According to this assessment Applus+ Certification shall:

- Ensure that the project activity has been implemented and operated as per the registered PDD/03/ and Passport/04/ 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 (3rd party documents like Commissioning certificate, invoices etc) provided are complete, verifiable and in accordance with applicable CDM VVS version 02 for the project activities and Gold Standard requirements/08/;
- 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 17.0.

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, the validated and registered PDD/03/ and registered Passport/04/ as well as its validation report, the applied monitoring methodology, relevant decisions, clarifications and guidance from the CMP and the EB, The Gold Standard Toolkit Version 2.2 and any other information and references (3rd party public documents like commissioning certificate, JMR , Invoices etc.) 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, The Gold Standard Toolkit Version 2.2/08/and related rules and guidance.

Based on the requirements in the CDM VVS version 02 for the project activities/07/ as well as the Gold Standard Toolkit Version 2.2 /08/, 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 sustainable parameters.

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:

Project activity:	Wind Power Project in Madhya Pradesh by OBWPPL
Gold Standard registration number:	GS 4962
Project Participants:	Orange Bercha Wind Power Private Limited

Location of the project: The project activity is located in the villages of Jhar, Sandala, Dhanesra, Kamed villages of Ratlam district, in the state of Madhya Pradesh, India

The purpose of the proposed project is to generate electricity by utilizing clean wind energy and to reduce the greenhouse gas emissions, which otherwise would have been emitted by the existing fossil fuel based power plants connected to the National grid in India or the addition of similar kind of fossil fuel based power plants.

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 site visit and a desk review of the Monitoring Report. This Verification Report describes the findings of this assessment.

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. Sukanta Das	LA/TE	YES	YES	YES	YES
Mr. Denny Xue	TR	YES	YES	NA	NA

The curriculum vitae of the DOE’s Verification team members are provided below:

1. **Mr. Sukanta DAS**, has done M. SC in (Electronics and Photonics) and M. Tech in (Energy technology) from Tezpur Central University/ Indian Institute of technology Bombay in India. He is a certified lead auditor for ISO 14001 EMS LA and ISO 9001 QMS LA from International registry for Certified Auditors (IRCA) and Certified Lean Management practitioner from Quality Council of India (QCI). He has more than Nine years of working experience at TUV NoRD/ Re-consult/CRA/ Applus+ LGAI under various categories of projects stating from Renewable to waste to supercritical projects. He was JI/ CDM Lead Assessor in TUV NoRD and was involved in more than 100 CDM validation and verifications activities in Gold Standard, VCS, CDM projects as a team leader/technical reviewer / validator / verifier covering the sectoral scope 1, 13 technical areas 1.2/1.1/13.1. Currently he is associated with True Quality Certifications Private Limited and is empanelled with Applus+ LGAI certification to carry out GHG audit.
2. **Hanshen (Denny) Xue** (Master Degree in Environmental Engineering, Bachelor Degree in Thermal Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment. He is based on Shanghai. He has 1.5 years of work experiences in CDM project development. Before he joined Applus+ LGAI, he has been worked for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development.

1.4.- Review of Documentation

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 registered PDD/[03](#)/and Passport/[04](#)/, 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.

A complete list of documents reviewed is available in Section 4 of this report.

1.5.- On-site Assessment and follow-up Interviews

As a part of the verification, the on-site inspection in the state of Madhya Pradesh has been performed by the assessment team.

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Gupta	Pavan	PP representative	16/10/2018	Project implementation, Baseline emissions, ER calculations, Sustainable monitoring etc.	Mr. Sukanta Das
2	-	Ramesh	Local stakeholder-Villager	16/10/2018	Stakeholder meeting-Employment opportunities, Standard of Livings etc.	Mr. Sukanta Das
2	-	Kamesh	Local stakeholder-Villager	16/10/2018	Stakeholder meeting-Employment opportunities, Standard of Livings etc.	Mr. Sukanta Das

The objective of the 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 (3rd party documents like JMR, Invoices etc.);
- Check the monitoring equipment against the requirements of the PDD, Passport 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 Sustainability monitoring plan as per the registered Passport
- To understand grievance (if any) from the villagers during the monitoring period.

Local stakeholder meeting details:

Name of the stakeholder	Ramesh
Occupation	Villager
DOE QUESTION: Did PP promised employment opportunity?	
Answer: Yes, stakeholder said that as promised PP provided employment.	
DOE also like to conclude that during the site visit it was observed that local people were employed for security and operation related work like water spraying, vegetation improvement and other unskilled work. DOE also found that skilled local persons were also employed by the organization for the operation and maintenance of the power plant.	

Name of the stakeholder	Kamesh
Occupation	Villager
DOE questions: Did the power plant discharge any harmful pollutants?	

Answer: NO the plant does not discharge any harmful pollutants.
DOE questions: Did the power plant destroy any crop fields?
Answer: The plant is implemented in barren land and there were no any fertile land or crop which is damaged.

1.6.-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 ~~02-03~~. The source of the evidences will be discussed in section 3 of this report. 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.

1.7.-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:

- a) 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;
- b) Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;
- c) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;
- d) 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 and CRs 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.

All CARs, CRs and FARs for this verification period are included in Section 3 of the verification report.

1.8.-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. In case one of these two persons is part of the assessment team, the 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.

2. VERIFICATION FINDINGS

In the following sections, the results of the verification are stated. The verification results related to the project performance as documented and described in the registered PDD (Version 05, dated 22/03/2018/[03](#)), registered Passport (Passport Version 05 dated 11/06/2018)/[04](#) and Monitoring Report (Version 1, dated 12/07/2018/[01](#)). The verification findings for each verification subject are presented below.

2.1.- FARs from Validation / Previous Verification

This is the first periodical verification, after checking validation report, there are no FARs requested.

2.2.-Project Implementation in accordance with the registered Project Design Document

The project activity was fully implemented according to the description presented in the registered PDD/[03](#) and registered Passport/[04](#). The assessment team confirms, through the visual inspection that all physical features of the proposed project activity including data collecting systems and storage have been implemented in accordance with the registered PDD/[03](#) and registered Passport/[04](#).

The technical features of the equipment's have been verified by the assessment team during site visit by checking nameplate of Wind turbines and also from the manufacturer's technical manual which is detailed listed below:

Gamesa G-97	
Rated power	2000 kW
Average Annual Wind speed	7.5 m/s
Turbulence Intensity I15%	18 m/s
Reference 10 minute wind speed for 50 years	37.5 m/s
Survival wind speed	52.5 m/s
POWER	
Rated power	2000 kW
Average Annual Wind speed	7.5 m/s
Turbulence Intensity I15%	18 m/s
Reference 10 minute wind speed for 50 years	37.5 m/s
Survival wind speed	52.5 m/s
GENERATOR	
Type	Doubly-fed with coil rotors and slip rings
Rated power	2.0 MW
Voltage	690 V AC

Frequency	50Hz/60Hz
Protection class	IP 54
Power Factor	0.95 CAP – 0.95 IND throughout the power range
ROTOR	
Diameter	97 m
Swept area	7390 sq. meter
Speed range (variable)	9:19 rpm
TOWER AND FOUNDATION	
Hub height	104 m
Design	Tubular, Four sections
Foundation type	Floating foundation
GEAR BOX	
Type	1 Planetary stage & 2 Parallel stage
Ratio	1:106.8 (50 Hz), 1:127.2 (60 Hz)

Assessment team checked the relevant dates for the project activity and found the same to be appropriate. The details are as below:

~~All the~~**The entire** project WTGs were commissioned on the same day i.e. 05/05/2016.

Assessment team also checked the latitude and longitude of the WTGs using GPS meters and also cross check the same from the Google earth software. Assessment team confirms that the details of latitude and longitude as presented in the registered passport and PDD is correct. The details of the same are as below:

No	WTG ID	Latitude (North)	Longitude (East)	Tehsil/ District	Village	State
1	B 16	52.2298	25.7294	Ratlam	Jhar	Madhya Pradesh
2	B 4	52.3946	25.7375	Ratlam	Sandala	Madhya Pradesh
3	B 1	52.1672	25.7515	Ratlam	Sandala	Madhya Pradesh
4	B 72	52.3437	25.7426	Ratlam	Jhar	Madhya Pradesh
5	B 90	52.5259	25.7525	Ratlam	Jhar	Madhya Pradesh
6	B 92	52.7864	25.7393	Ratlam	Jhar	Madhya Pradesh
7	B 89	52.5573	25.7325	Ratlam	Sandala	Madhya Pradesh
8	B 86	52.5976	25.7415	Ratlam	Sandala	Madhya Pradesh
9	B 73	52.8737	25.7434	Ratlam	Sandala	Madhya

						Pradesh
10	B 79	52.8032	25.7356	Ratlam	Sandala	Madhya Pradesh
11	B 38	52.5999	25.7551	Ratlam	Dhanesra	Madhya Pradesh
12	B 87	52.4506	25.7245	Ratlam	Dhanesra	Madhya Pradesh
13	B 80	52.608	25.737	Ratlam	Dhanesra	Madhya Pradesh
14	B 82	52.7876	25.7563	Ratlam	Dhanesra	Madhya Pradesh
15	B 91	52.608	25.737	Ratlam	Dhanesra	Madhya Pradesh
16	B 33	52.6708	25.7399	Ratlam	Dhanesra	Madhya Pradesh
17	B 71	52.8647	25.7629	Ratlam	Kamed	Madhya Pradesh
18	T1	52.7818	25.7614	Ratlam	Kamed	Madhya Pradesh
19	T2	52.7876	25.7563	Ratlam	Kamed	Madhya Pradesh
20	B 77	52.8648	25.7588	Ratlam	Kamed	Madhya Pradesh
21	B 83	52.8737	25.7434	Ratlam	Kamed	Madhya Pradesh
22	B 78	52.8747	25.7401	Ratlam	Kamed	Madhya Pradesh
23	B 85	52.8032	25.7356	Ratlam	Kamed	Madhya Pradesh
24	B 75	52.7864	25.7393	Ratlam	Kamed	Madhya Pradesh
25	B 84	52.735	25.7416	Ratlam	Kamed	Madhya Pradesh

The project activity was in normal operational during the monitoring period and the same has been confirmed on-site. No unusual activates observed during the monitoring period and plant was undergone scheduled maintenance as per the recommendation of the manufactures. NO forced breakdown observed and the same is confirmed by the assessment team with the plant breakdown log details.

Assessment team also checked the Feeder details of the connected WTGs and found the same to be appropriate. The details are as below:

Feeder	WTGs
Feeder 1	B-01, B-04, B-16, B-72, B-73, B-79, B-82, B-86, B-89, B-90, B-91, B-92

Feeder 2	B-33, B-38, B-71, B-75, B-77, B-78, B-80, B-83, B-84, B-85, B-87, T-01, T-02
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The verification team has reviewed the commissioning certificates to conclude that the capacity of the project is same as mentioned in the registered PDD/03/. The capacity of the project activity does not change after the registration of the project activity.

Also during the onsite visit it was observed that the rated capacity of the Wind project is 50 MW. As the capacity of the project is more than type I limit of small scale project activity, DOE confirms that the project is large scale project activity. Assessment team also confirmed during the discussion with PP that project will remain within the project scale for the whole crediting period.

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 verification site visit. The grid structure as mentioned in the PDD/03/ is still applicable for the project and ex-ante emission factor as proposed in the PDD/03/ is used for emission reduction calculation.

The commissioning details as provided in the MR Version 01/01/were checked with the commissioning certificates/13/ provided by the project participant. The commission certificates were issued by "Govt agencies" which is a third party government firm and thus the commissioning dates are acceptable to the assessment team.

The amount of GS-VERs achieved during the present monitoring period is ~~1.022.24~~ % lower than the estimated value in the PDD/03/. 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.

The details are checked in emission reduction sheet and the same is also provided below:

<u>Start date of Monitoring period</u>	<u>5-Jun-16</u>	-
<u>End date of Monitoring period</u>	<u>31-Mar-18</u>	-
<u>Total days in the Monitoring period</u>	<u>665</u>	-
<u>Estimated emission Reduction As per PDD</u>	<u>107,058</u>	<u>tCO₂e</u>
<u>Estimated ERs for this monitoring period</u>	<u>195051</u>	<u>tCO₂e</u>
<u>Actual Emission Reduction</u>	<u>190687</u>	<u>tCO₂e</u>
<u>Difference in Emission reduction</u>	<u>-2.24%</u>	-

<u>Start date of Monitoring period</u>	<u>05/05/2016</u>	-
<u>End date of Monitoring period</u>	<u>31/03/2018</u>	-
<u>Total days in the Monitoring period</u>	<u>696</u>	-
<u>Estimated emission Reduction As per PDD</u>	<u>107,058</u>	<u>tCO₂e</u>
<u>Estimated ERs for this monitoring period</u>	<u>204,143</u>	<u>tCO₂e</u>
<u>Actual Emission Reduction</u>	<u>202,064</u>	<u>tCO₂e</u>
<u>Difference in Emission reduction</u>	<u>-1.02%</u>	-

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 registered PDD/03/ and no change in additionality/baseline is envisaged for the present monitoring period.

2.3.-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 17.0 /06/, applied by the proposed CDM project activity.

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

2.4.-Completeness of Monitoring

The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD/03/ and Passport/04/. All parameters were monitored and determined as per the monitoring plan as follows:

a. Data and parameters fixed ex ante or at renewal 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 registered PDD/03/ and confirms that the similar approach was considered for the current monitoring period also.

The values are as below:

$$EF_{OM,y} = 0.9941 \text{ tCO}_2\text{e/MWh}$$

$$EF_{BM,y} = 0.9285 \text{ tCO}_2\text{e/MWh}$$

$$EF_{CM,y} = 0.9777 \text{ tCO}_2\text{e/MWh}$$

The value for $EF_{OM,y}$, $EF_{BM,y}$ and $EF_{CM,y}$ was considered from the CO₂ baseline database published by Central Electricity Authority (CEA) version 11. The default value as mentioned in the registered PDD/03/ and MR /01/ 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. No further assessment of the combined margin is thus required. The default value in turn is used for baseline calculation as per the formula given in the registered PDD/03/ for the current monitoring period.

b. Data and parameters monitored

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

$EG_{\text{facility},y}$: Net electricity supplied to the grid by the project activity

The parameter is calculated by export and import.

The parameter $EG_{\text{facility},y}$ is calculated using the difference of recorded export and import from the meter. The total energy exported/imported to/from the grid by this WTG is measured by State electricity board energy meter (electronic tri-vector main meter which measures both export & import concurrently) connected to the WTG in the High Tension (HT) yard located besides the each WTGs. For billing purpose, the meter readings are measured on monthly basis jointly by the representative of State Electricity board officials and the O&M representative. On the basis of this reading, export and import value is thus provided in the JMR sheets for individual project participant. The practice followed onsite is as per the registered PDD and registered Passport. 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 PDD/03/ and onsite practice. Assessment team confirms the same during the project visit. Assessment team

checked all the values of the electricity exported and electricity imported from the Meter reading statement/JMR issued by State electricity board. The Export data for June 2016 has been considered only from 5th June onwards as per the monitoring period. On the other hand Import has been taken for the full month to be on conservative side. Assessment team checked the calculation and found correct. The Net electricity supplied to the grid is also cross checked from the invoices and the same is found correct. The procedure is as per the requirement of registered PDD and Passport and thus the same is acceptable to the assessment team. The details are provided in the ER sheet version 02 and same is checked and found correct by the assessment team.

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 KPTCL/Invoices/[11](#)/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/[12](#)/ such as make, accuracy class serial number is as per the meter available onsite and checked during verification site visit.

The metering arrangement for the project activity is 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.

All the energy meters is calibrated as per the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, (Published in the Gazette of India, Extraordinary, Part III, section iv), and thus calibrated once in five years by the State officials, as per the provisions of the PPA, signed between the PP and the State electricity board. PP has not control whatsoever over the processes related to state Board meters calibration as the meters are under the purview of State Board. The joint meter reading can be cross checked against the invoice on energy generation from the WTGs, issued monthly by the State Board. 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. The calibration of the meters is under the purview of state utility and the frequency is decided by them. The 1st calibration done covers the monitoring period and next due is after 5 years. However, it is to be noted that state board may decide to carryout calibration as suited and deemed appropriate in the coming years. However, the assessment team confirms while interviewing the PP that it will ensure that at-least the frequency mentioned in registered PDD is met which is once in a five year.

The Calibration details are as follows:

Energy Meter Serial No Details			Calibration Date	Calibration Due Date
PSS Meters	Main Meter	XC576471	04/01/2016	03/01/2021
	Check Meter	XC576472	04/01/2016	03/01/2021

All the meters are of "Secure Make: with 0.2s Accuracy class.

The calibration is done by Secure which is authorised by State nodal agency (Meter Testing division), Govt of Madhya Pradesh, India which is accredited Laboratory from National Accreditation Board for Testing and Calibration, Govt of India (<http://www.nabl-india.org/>) to carry out calibration. No delay in Calibration is observed.

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.

2.5.-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 01 & Monitoring report Version ~~02-103~~ /01/and corresponding ER calculation spreadsheets and are consistent with the applied methodology ACM0002 version 17.0/06/and the monitoring plan contained in the registered PDD/03/. 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 01 & Monitoring report Version 02.1 /01/and corresponding ER calculation spreadsheets/02/. The verification process for the same has been clearly described in section 3.4 of the report. See below for the detailed data:

As per the approved methodology ACM0002 version 17.0 baseline emissions for the project activity are calculated by multiplying the net quantity of electricity supplied by this project activity ($EG_{facility,y}$) with the CO₂ baseline emission factor for the electricity displaced due to the project ($EF_{CM,y}$) as follows:

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

$$BE_y = EG_{facility,y} \cdot EF_{CM,y} \dots\dots\dots (1)$$

Where,

BE_y = Baseline emissions in year y (tCO₂/yr)

$EG_{facility,y}$ = 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).

$EF_{CM,y}$ = 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)

For this monitoring period, the emission reduction is calculated as below:

$$= 195,037,206,673(\text{MWh}) * 0.9777 (\text{tCO}_2/\text{MWh})$$

$$= 190,687,202,064 \text{ tCO}_2 \text{ (rounded down)}$$

Project emissions:

The project is a Wind power project, no fossil fuel will be consumed according to the methodology ACM0002 version 17/06/ & according to registered PDD/03/, $PE_y = 0 \text{ tCO}_2\text{e}$

Leakage:

As per registered PDD, passport and methodology leakage emission is negligible for renewables projects.

Emission reductions:

Thus the emission reductions are:

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$$\begin{aligned}
 ER_y &= BE_y - PE_y \\
 &= \mathbf{190,687,202,064 - 0} \text{ (tCO}_2\text{e)} \\
 &= \mathbf{190,687,202,064} \text{ (tCO}_2\text{e)}
 \end{aligned}$$

For the current monitoring period the vintage wise break down of GS VERs has been calculated and are as below

Vintage wise Emission reductions (GS VERs)

Vintage	Emission Reduction (tCO ₂ e)- Actual for the Monitoring period	Estimated ERs as per PDD	Difference in Emission reduction
Year 2016	71,39760,020	70,68861,595	1.00-2.56%
Year 2017	112,9545	107,058	-5.51%
Year 2018	17,713	26,398	-32.90%

2.6.- Management and Operational System

The responsibilities of data measurement, collection, verifying, archiving etc. have been clearly defined in the PDD/03/. The same practice is followed onsite and it is confirmed by the assessment team during the verification site visit. 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 registered PDD/03/.

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

It's verified during the on-site verification, the monitoring procedure as well as the internal quality management and control procedures are stipulated in the PDD/03/. 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, will be 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.

2.7.- Assessment of Sustainable Monitoring

In the Registered Passport Version 05 indicators are chosen for the monitoring of sustainable monitoring:

Meth/tool	Passport	MR	Compliance?
Air quality	Air quality	Air quality	Yes
Quality of employment	Quality of employment	Quality of employment	Yes
Livelihood of the poor	Livelihood of the poor	Livelihood of the poor	Yes
Access to affordable and clean energy services	Access to affordable and clean energy services	Access to affordable and clean energy services	Yes
Quantitative employment and	Quantitative employment and	Quantitative employment and	Yes

Meth/tool	Passport	MR	Compliance?
income generation	income generation	income generation	
Soil Erosion	Soil Erosion	Soil Erosion	Yes
Maintenance of Landscape visual impact	Maintenance of Landscape visual impact	Maintenance of Landscape visual impact	Yes
Species Mortality & Bird Strikes (Bird & Bat Deaths)	Species Mortality & Bird Strikes (Bird & Bat Deaths)	Species Mortality & Bird Strikes (Bird & Bat Deaths)	Yes
Involuntary Resettlement & expropriation	Involuntary Resettlement & expropriation	Involuntary Resettlement & expropriation	Yes
Safety of workers	Safety of workers	Safety of workers	Yes

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

Indicator:	Air quality
Chosen parameter 1:	Electricity generation and equivalent of PM, NOx and SOx avoided and dust generation
Parameter value:	Not applicable
Mitigation Measures:	<p>In order to reduce dust emissions during the construction phase, the following dust suppression measures stipulated and implemented as confirmed by the assessment team with the interview with PP</p> <ul style="list-style-type: none"> - 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. <p>During the operational phase (monitoring period) the scope of dust emission is none to minimal. Vehicles are run under controlled speed to avoid any dust generation.</p>
Data Source:	Project Log book and interview with O&M team/Locals on yearly basis. The interview with the O&M team/Locals and cross check in the project log book revealed that the project operation has minimalistic ground activities which does not result in any dust emissions.
Baseline situation of parameter 1:	Equivalent SOx & NOx generation from power projects in the Indian grid mix. There was no project related activity and hence no resultant dust due to construction or project's vehicle movements.
Target achieved?	The project achieved to reduce the amount of CO ₂ in the atmosphere for the current monitoring period. No data for SOx and NOx. During the operational phase (monitoring period) the scope of dust emission is none to minimal. Vehicles are run under controlled speed to avoid any dust generation.
Procedure monitoring:	Project logbook (for vehicle maintenance), or interview with maintenance staff. Grievance register and interview with stakeholders

	(For Dust emission)
Means of verification:	<p>The emission reduction sheet is checked and found correct. To avoid dust emission during construction stage following measures are taken:</p> <ul style="list-style-type: none"> - 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 <p>During the operational phase (monitoring period) the scope of dust emission is none to minimal. Vehicles are run under controlled speed to avoid any dust generation.</p> <p>Assessment team also checked the detail regarding SOx and NOx data and found that in the host country there is no data available for the calculation of equivalent electricity calculation for SOx and NOx. To confirm the same PP has taken a clarification from GS team via email dated 07/12/2018 for project GS 4962. GS clarified in their email dated 02/01/2019 "Please note since there is no data available for SOx and NOx for India, hence it is acceptable to us for this case, please make sure that you are armed enough to justify the parameters which you have chosen to report in future."</p> <p>Hence, with the clarification from GS assessment team confirm that the parameter monitoring for the current monitoring period is correct.</p>
Cross-check:	Not applicable

Indicator :	Quality of employment
Chosen parameter 2:	Details of Trainings & workshops conducted (& its relevance) for employees and O&M staffs on yearly basis.
Parameter value:	Not applicable
Mitigation Measures:	Not applicable as indicator scored positive as per the registered Passport
Data Source:	Training Record and Employee feedback forms /09/
Baseline situation of parameter 2:	In the baseline, local people have no such opportunities to be trained on the technology and the monitoring of the plant operation, and the emergency and safety procedures.
Target achieved?	Yes, the staffs have accepted a series of training on the technology and the monitoring of the plant operation, and the emergency and safety procedures. The safe and healthy working condition was provided to the staffs.
Procedure of monitoring:	Checked training record and certificates and the feedback forms as well/09/
Means of	By checking all the training records and certificates on yearly basis /09/, it is confirmed that

verification:

the project proponent provided sufficient training for the employee/local people for skill and operation of the power plant. The Training on safety procedures, communication skills etc. were also provided to the O&M staffs and local people. Also some interviews were made with employee/local people and they confirmed that they are receiving a lot of trainings. The training not only improves the operation level of the Project, and also enhances the technical skill of the staff. The detail regarding training conducted and checked by assessment team is given below:

<u>Sl.No</u>	<u>Name of Training</u>	<u>Training date</u>	<u>Trainer /Institute</u>	<u>No. of Participants</u>	<u>Type of Participants</u>
1	Work at height	Last Week of Every Month	Karam Training Consultancy	20	Orange & Gamesa Site Employees
2	Communication & Presentation Training	28-01-2017	Internal Training	15	Orange Site Employees
3	Advance Course on Electrical Safety	18-12-2017, 19-12-2017, 20-03-2018	Internal Training	05	Orange Site Employees
4	Primavera	April 2015, 25th to 29th Feb 16	Internal Training	4	Orange & Gamesa Site Employees
5	Quit Smoking Session	01-08-2017	Internal Training	7	Orange Site Security
6	Ride Safe Program	12-12-2017	Hero Corp	15	Orange & Gamesa Site Employees
7	Emergency Responder Training	29-07-2016, 02-09-2016, 24-08-2017	VIVO Health Care	20	Orange & Gamesa Site Employees
8	Basic First Aid Training	25-11-2016, 22-01-2017, 24-03-2017, 15-09-2017, 18-01-2018	Trove Skills	25	Orange & Gamesa Site Employees
9	Gender Sensitization Workshop	18-12-16, 18-09-2017	Aspiring People	Over 50	Orange Employees at Head office

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	The safe and healthy working condition was provided to the staffs of the Project confirmed by site visit.
Cross-check:	Not applicable

Indicator:	Livelihood of the poor
Chosen parameter 3:	Health Camps, Knowledge and information dissemination regarding natural disasters through seminars.
Parameter value:	Not applicable
Mitigation Measures:	Not applicable as indicator scored positive as per the registered Passport
Data Source:	CSR records and photographic evidence
Baseline situation of parameter 3:	In the baseline, local people have no basic facilities and only government facilities were available which were not sufficient enough
Target achieved?	<p>PP conducted survey during construction phase of the project in the villages near project locations to check the requirement of facilities by the villages. From the survey, PP has identified several scope of developmental activities such as health camps, furniture, sports kits and toilet requirements in government schools, drinking water requirements etc.</p> <p>PP has started implementing the CSR activities. During the monitoring period the CSR activities like:</p> <ol style="list-style-type: none"> 1) Distribution of furniture to schools (Chairs, stools, benches and books). <u>50 Students of primary schools of jhar and sandla village is benefitted with this activity. The distribution is done on 2nd October 2016.</u> 2) Construction of Toilets at school for Girls if required. 3) Promotion of greenery and plantation in project region. The activity is carried in Girls College, Ratlam. The activity is carried out on 04-05th June 2016 as a part of CSR initiative. 4) Establishment of water purifier with cooler. <u>The activity is conducted in Police Staff and approx. 500 People nearby villages. Moreover, Approx. 250 students of nearby villages are also benefitted with the Establishment of water purifier with cooler. The activity is carried out on 31st March 2018 as a part of CSR initiative</u> <p>The activities <u>also</u> carried out are focused to up hold the livelihood of the poor as, it the poor in the project region who are mostly deprived of the basic facilities such as sanitation, education and medical attention.</p> <p>The project will have positive impact on this parameter as there were no socially oriented CSR activities before the project activity. Thus the project has positive impact on the indicator. The detail date wise CSR activity is included in the revised MR for the current monitoring period which is found to be correct.</p>
Procedure of monitoring:	Checked CSR records and photographic evidence
Means of verification:	Assessment team checked the CSR report of the organization and with the

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	<p>photographic evidence confirm that many basic facilities were provided to the local people/villagers which were not available in baseline scenario. PP made a detailed study during the construction phase and systematically implemented following facilities during construction and operation of the project activity. The details are as below:</p> <ol style="list-style-type: none"> 1) Distribution of furniture to schools (Chairs, stools, benches and books) 2) Construction of Toilets at school for Girls if required. 3) Promotion of greenery and plantation in project region. 4) Establishment of water purifier with cooler <p>The facilities helped to improve the livelihood of local people/villagers and their families and thus assessment team confirms that the monitoring parameter Target is achieved for the current verification.</p>
Cross-check:	Not applicable

Indicator:	Quantitative employment and income generation																										
Chosen parameter 4:	<ol style="list-style-type: none"> 1. Cost spent for O&M 2. Number of O&M staffs involved in the project 																										
Parameter value:	<p>The total number of O&M staffs employed by the Gamesa and Orange for the operation & maintenance of the project activity is provided below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>2016</th> <th>2017</th> <th>2018</th> </tr> </thead> <tbody> <tr> <td>Gamesa O&M</td> <td>8</td> <td>9</td> <td>8</td> </tr> <tr> <td>O&M Support</td> <td>12</td> <td>14</td> <td>17</td> </tr> <tr> <td>Gamesa Admin Staff</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>Security</td> <td>30</td> <td>34</td> <td>34</td> </tr> <tr> <td>Orange</td> <td>4</td> <td>2</td> <td>2</td> </tr> </tbody> </table> <p>The first two years (05/05/2016 to 04/05/2018) of O&M cost is included in the supply order and hence there is no cost. However, from the third year onwards, the cost of O&M will be over 21.5 lakhs per WTG which works at 537.5 lakhs for the project per year. The current monitoring period falls under the no cost O&M period.</p>				2016	2017	2018	Gamesa O&M	8	9	8	O&M Support	12	14	17	Gamesa Admin Staff	4	5	6	Security	30	34	34	Orange	4	2	2
	2016	2017	2018																								
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Gamesa Admin Staff	4	5	6																								
Security	30	34	34																								
Orange	4	2	2																								
Data Source:	Plant employment records																										
Mitigation Measures:	Not applicable																										
Baseline situation of parameter 4:	In the baseline, local people have no such job opportunities from the project, and their income has no increase.																										
Target achieved?	Yes. More than 40 fulltime work positions for local people have been created																										
Procedure of monitoring:	PP has employment records for the people working in skilled O&M team and also local villagers working as non- skilled jobs like Security guards, peon etc.																										
Means of verification:	<p>After checking daily attendance register and employment records assessment team confirms the below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>2016</th> <th>2017</th> <th>2018</th> </tr> </thead> <tbody> <tr> <td>Gamesa O&M</td> <td>8</td> <td>9</td> <td>8</td> </tr> <tr> <td>O&M Support</td> <td>12</td> <td>14</td> <td>17</td> </tr> </tbody> </table>				2016	2017	2018	Gamesa O&M	8	9	8	O&M Support	12	14	17												
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	<p>The first two years (05/05/2016 to 04/05/2018) of O&M cost is included in the supply order and hence there is no cost. However, from the third year onwards, the cost of O&M will be over 21.5 lakhs per WTG which works at 537.5 lakhs for the project per year. The current monitoring period falls under the no cost O&M period.</p> <p>The same is checked by the assessment team from the O&M agreements. The O&M service provider maintains a healthy number of employees at the site, and also hires locally for unskilled workers; which helps in creating service based jobs in the project region. The parameter has a positive impact as the project results in direct employment and income generation.</p> <p>Assessment team confirms that the monitoring parameter target is achieved for the present monitoring period.</p>			
Cross-check:	Not applicable			

Indicator:	Access to affordable and clean energy services
Chosen parameter 5:	Net electricity supplied to grid
Parameter value:	206,673 MWh of electricity supplied to grid by the project activity
Data Source:	Monitored through energy meter. Net electricity will be calculated from the recorded export value recorded import value by DISCOM on monthly basis.
Mitigation Measures:	Not applicable
Baseline situation of parameter 5:	No electricity is generated as the power was generally drawn from fossil fuel dominated grid.
Target achieved?	206,673 MWh of electricity supplied to grid by the project activity
Procedure monitoring:	Monitored through energy meter. Net electricity will be calculated from the recorded export value recorded import value by DISCOM on monthly basis. The JMR forms the basis for this value. PP has no control over this procedure of calculation.
Means of verification:	<p>The calculation of Net electricity supplied to the grid is checked and found correct.</p> <p>The parameter $EG_{\text{facility}, y}$ is calculated using the difference of recorded export and import from the meter. The total energy exported/imported to/from the grid by this WTG is measured by State electricity board energy meter (electronic tri-vector main meter which measures both export & import concurrently) connected to the WTG in the High Tension (HT) yard located besides the each WTGs. For billing purpose, the meter readings is measured on monthly basis jointly by the representative of State Electricity board officials and the O&M representative. On the basis of this reading, export and import value is thus provided in the JMR sheets for individual project participant. The practice followed onsite is as per the registered PDD and registered Passport. 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 PDD/03/and onsite practice. Assessment team confirms the same during the project visit. Assessment team checked all the values of the electricity exported and electricity imported from the Meter reading statement/JMR issued by State electricity board. The Net electricity supplied to the grid is also cross checked from the invoices and the same is</p>

	<p>found correct. The procedure is as per the requirement of registered PDD and Passport and thus the same is acceptable to the assessment team. The details are provided in the ER sheet version 02 and same is checked and found correct by the assessment team.</p> <p>Assessment team confirms that the monitoring parameter target is achieved for the present monitoring period.</p>
Cross-check:	<p>As per the registered PDD and passport, invoices are used to cross check the value of Net electricity supplied to the grid and the same is conducted for present verification. The procedure is as per the requirement of applied methodology and registered PDD and thus acceptable to the assessment team.</p>

Indicator:	Soil Erosion
Chosen parameter 6:	Any Project Related Activities Altering Soil Condition
Parameter value:	Not applicable
Mitigation Measures:	<p>For the current monitoring period, General soil erosion and sediment control measures includes:</p> <ul style="list-style-type: none"> - Keep open areas of excavation to a minimum and construction activities restricted to dry months to avoid heavy rainfalls; - Using existing roads and lanes used by land owner. - Stockpiles of materials placed away from drainage lines and formed with sediment control structures placed immediately down slope; - Construction debris and excavated material were cleared up at regular intervals - Excavated material stock piled and used for backfilling of foundations, platforms etc. - Minimization of traffic in construction zones and use of a dedicated parking area, i.e. site compound; - Re-vegetation taken up as necessary after construction, in order to reduce the risk of soil erosion. <p>Specific mitigation measures followed in the operational phase of the project: Waste oil generated shall be stored separately in containers in a secured location in the maintenance room. The storage location and the containers are properly marked. The waste / used waste oil from the WTGs to be disposed off to a CPCB/SPCB authorized vendor. A hazardous waste inventory is maintained as per the provisions of the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008.</p>
Data Source:	Project O&M HSE logbook, or interview with maintenance staff on yearly basis.
Baseline situation of parameter 6:	No project related soil erosion in absences of project activity
Target achieved?	Yes, as no complain of Soil erosion observed.
Procedure of monitoring:	Checked Project O&M HSE logbook, or interview with maintenance staff.
Means of verification:	<p>Assessment team checked that PP has taken adequate control for soil erosion like Excavated material stock piled and used for backfilling of foundations, platforms etc.</p> <ul style="list-style-type: none"> - Minimization of traffic in construction zones and use of a dedicated parking area, i.e. site compound;

	<p>- Re-vegetation taken up as necessary after construction, in order to reduce the risk of soil erosion.</p> <p>The O&M log book records all the parameters as listed:</p> <ol style="list-style-type: none"> 1) Hazardous waste generated, disposed, any spillages 2) Waste oil generated, disposed, any spillages 3) Leakage of any diesel or waste oil <p>The same is checked and found correct by the assessment team. No such incident found for the current monitoring period which can impact the soil.</p> <p>This parameter has a neutral (0) impact as there has been no incidences of oil leakage or inappropriate disposal of hazardous or waste oil during the monitoring period.</p>
Cross-check:	Not applicable

Indicator:	Maintenance of Landscape visual impact
Chosen parameter 7:	Aesthetics
Parameter value:	Not applicable
Mitigation Measures:	<p>Detailed ESIA study conducted to understand if any of the location needs to be altered.</p> <p>Locals were consulted where ever a WTG location or access road was in vicinity to a settlement.</p> <p>The WTGs are painted with non-reflect paints and are not glary.</p> <p>Re-vegetation taken up as necessary after construction, in order to reduce the risk of soil erosion.</p>
Data Source:	Project Grievance register, or interview with local villagers on yearly basis
Baseline situation of parameter 7:	There was no project activity and hence no resultant visual or landscape impact of the same.
Target achieved?	Yes as 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
Procedure of monitoring:	Project Grievance register, or interview with local villagers
Means of verification:	<p>Assessment team checked the Grievance register and also discussed with local villagers and found that 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.</p> <p>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.</p>
Cross-check:	Not applicable

Indicator:	Species Mortality & Bird Strikes (Bird & Bat Deaths)
Chosen parameter 8:	Bird carcass
Parameter value:	Not applicable

Mitigation Measures:	<ol style="list-style-type: none"> 1. During the siting activity it was ensured that there are no water bodies beside WTGs. 2. Water pits are not allowed around the WTGs. 3. None of the area of WTGs erection or transmission lines are under sensitive or under areas of conservation importance 4. The transmission lines wherever required has reflectors 5. Storm water control around within 100m of every WTG
Data Source:	Bird Strike register, or interview with local villager
Baseline situation of parameter 8:	No action taken as there were no WTGs.
Target achieved?	Yes. No bird strike noticed for the current monitoring period.
Procedure of monitoring:	Bird Strike register, or interview with local villager
Means of verification:	<p>Assessment team checked Bird Strike register as per the record, there are no observed carcasses in vicinity of the WTGs.</p> <p>The project activity's micro-siting had been done considering possible impact on flora and fauna. The choice of sites has been carefully done considering the preliminary recommendation of the ESIA report. None of the WTGs are near to water bodies and PP takes deliberate steps to ensure there no water holes around the WTGs.</p> <p>PP take continuous feedback from Locals in case of any bird death and for the monitoring period it is observed that locals have not filled any complaint of bird death in the grievance register nor in the Bird strike register. By discussing with the locals during the site visit this has been confirmed by the assessment team. The project proponent actively takes regular feedback from local villagers about project and has also set up a grievance mechanism in place. There has been no reported bird death in the project vicinity.</p> <p>The impact of parameter is neutral as there is no impact observed during the current monitoring period.</p>
Cross-check:	Not applicable

Indicator:	Involuntary Resettlement & expropriation
Chosen parameter 9:	Resettlement or Grievance
Parameter value:	There is no change in the monitoring period, as no land has been purchased after construction nor any associated resettlement. Assessment team observed during the onsite visit that the WTGs are located on Barren land and therefore there is no population which is being displaced because of the project activity. Hence there is no question of resettlement arises.
Mitigation Measures:	Not applicable as indicator scored positive as per the registered Passport
Data Source:	Interview with local villagers & Grievance register
Baseline situation of parameter 9:	No resettlement involved in absence of the project activity
Target achieved?	Not applicable
Procedure of monitoring:	Checked Grievance register and done interview with local villager in yearly basis
Means of verification:	Assessment team, checked that there is no change in the monitoring period, as no land has been purchased after construction nor any associated resettlement. Assessment team observed during the onsite visit that the WTGs are located on Barren land and therefore there is no population which is being

	displaced because of the project activity. Hence there is no question of resettlement arises.
Cross-check:	Not applicable

Indicator:	Safety of workers
Chosen parameter 10:	Safety procedures followed: <ul style="list-style-type: none"> • Operating staffs are provided with helmet, shoes & gloves • Conduct safety training to the O&M staffs yearly
Parameter value:	Not applicable
Mitigation Measures:	EHS team onsite is responsible for the below: <ul style="list-style-type: none"> - Proper training to all the workers at site - Safety gear mandatory while Working at heights and inside the site location - Job card in conformity with safety protocol released before taking up any task by O&M team - Implementation of Loading & Unloading protocols - Use of vehicles with PUC & proper maintenance of vehicles - Control and speeding of Vehicle
Data Source:	Records of helmet, shoes & gloves distributed to staffs & Records of safety training
Baseline situation of parameter 10:	In the baseline there was no power plant and hence the baseline is grid mix grid. The project is a greenfield project.
Target achieved?	Yes the evidence of safety drill (photographs of helmet, shoes, gloves) and audit (records) conducted onsite is checked and found correct by the assessment team. All the safety procedure is followed onsite. Moreover, the O&M operator is ISO 18001 certified organization and thus the quality Manual also mention detail regarding Safety of the worker and working condition. Assessment team found that the manual procedure is followed onsite and the safety of the people is given paramount importance.
Procedure monitoring:	Checked Records of helmet, shoes & gloves distributed to staffs & Records of safety training
Means of verification:	By checking all the training records for safety, it is confirmed that the project proponent provided sufficient training to the skilled personal for the operation of the power plant. The Training on safety procedures, communication skills etc. were also provided to the O&M staffs and local people. The training not only improves the operation level of the Project, and also enhances the technical skill of the staff. The safe and healthy working condition was provided to the staffs of the Project confirmed by site visit.
Cross-check:	Not applicable

During the site visit, the verification team confirmed that there is a grievance book with GS contact information in the lobby of the project owner's office. By checking grievance book, 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.

The grievance register is made available by the project participant for the locals in the project site for any kind of grievances felt by the people during the monitoring period. In case any

grievance is received by the PP, a corrective action is considered for the same and the same is closed if any for the monitoring period. For the current monitoring period no such grievance is received from the local's people. Assessment team would like to submit that before the implementation of the project activity the locals people were bond laborer in agricultural field and thus the income was not regular. They used to get paid on day to day basis and that is not regular. After the implementation of the project activity many locals got permanent jobs as mentioned in the FVR against the parameter "Quantitative employment opportunities and income generation". Thus the assessment team concluded that project activity helped to improve the lifestyle of the locals and also provided them job opportunity.

Moreover, assessment team also had a discussion with some of the villagers the name of the same were given in section 1.5 of the FVR and conclude that locals are happy with the implementation of the project activity

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>. Thus double counting for the current monitoring period is ruled out. Assessment team also checked the declaration for no REC claimed for the current monitoring period submitted by PP. The declaration dated 01/10/2018 is found correct and is line with the requirement of GS.

Also during the site visit, 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 site visit Mr. Gupta, PP representative 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 Gold Standard Toolkit Version 2.2.

3. SUMMARY OF FINDINGS

The assessment team can confirm that the Initial MR /01/ and related documents are complete and verifiable in accordance with the GS requirements. All the findings that were raised by the assessment team, the responses by the PPs and the conclusion from the team are presented below. The means of verification and resulting changes in the MR/01/ or related documents are identified in the following tables:

Compilation and Resolutions of CARs, CRs and FARs

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	Number:	01
Raised by:	Sukanta Das	Ref. to checklist in above tables:	NA
Description of the audit finding	Date:		17/10/2018
<p>The parameters details as mentioned in registered passport do not match with MR. Corrective action is sought regarding the same.</p> <p>Moreover, following CARs are raised regarding Sustainability parameter as mentioned in registered PDD:</p> <ol style="list-style-type: none"> 1. Air Quality: Project logbook as per the registered PDD is not submitted to assessment team. Corrective action is sought. Moreover, the MR for this prepared is not prepared as per the registered passport. The baseline scenario, Value, future target and way of Monitoring is not as per the registered passport. 2. As per registered Passport for parameter "Quality of employment" will be monitored through Training Records (HSE & HR) & Employee feedback forms. The documents are not submitted to the assessment team. The parameter is thus reserved till the submission of further documents. Corrective action is sought. Moreover chosen parameter and baseline is also not as per the registered passport. 3. As per registered passport the parameter "Livelihood of the poor will be monitored through CSR records and photographic evidence. The documents are not submitted to the assessment team. The parameter is thus reserved till the submission of further documents. Corrective action is sought. Moreover, PP should also explain how the CSR activities uphold the Livelihood of poor in the MR. Corrective action is sought 4. As per the registered PDD "Access to affordable and clean energy services" is monitored through energy meter. Net electricity will be calculated by DISCOM and O&M operator on monthly basis and provided in the share certificate. The ER sheet submitted have blank import and export values. No definitive conclusion can be drawn and thus Corrective action is sought in both MR and ER sheet. 5. As per registered passport Quantitative employment and income generation will be monitored through Plant employment records. Moreover, the number of employees (skilled and non-skilled and permanent and adhoc) are also not detailed out in the MR. Monitoring period range from 2016 to 2018. The year wise employment details needed to be mentioned. Also, cost of O&M is provided however the supporting is not provided. The documents are not submitted to the assessment team. The year wise O&M cost needed to be mentioned. The parameter is thus reserved till the submission of further documents. Corrective action is sought. 6. As per registered passport Soil erosion will be monitored through Project O&M HSE log book. The documents are not submitted to the assessment team. The parameter is thus reserved till the submission of further documents. Corrective action is sought. 7. As per the registered passport Maintenance of Landscape visual impact will be monitored through Project grievance register. The parameter is thus reserved till the submission 			

of further documents. Corrective action is sought.

8. As per the registered passport Species Mortality & Bird Strikes (Bird & Bat Deaths) will be monitored through Bird Strike register. The documents are not submitted to the assessment team. The parameter is thus reserved till the submission of further documents. Corrective action is sought.
9. The parameter Involuntary Resettlement & expropriation needs to be monitored as according to the grievance register. The parameter is thus reserved till the submission of further documents. Corrective action is sought.
10. The parameter Safety of workers needs to be monitored through Records of helmet, shoes & gloves distributed to staffs & Records of safety training. The parameter is thus reserved till the submission of further documents. Corrective action is sought.

Based on the above observation corrective action is sought in MR and ER sheet

Project Participant's response	Date:	22/10/2018
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1. None of the activities in the project resulted in soil erosion. The DoE is provided with the record of observation logbook. The MR has been updated wherever applicable to match the registered Passport, particularly at all the SD parameters.
2. For the parameter "Quality of employment", the chosen parameter and baseline is updated as per the registered passport. The DoE is provided with Training Records, HSE & HR Records for Orange.
3. The MR is updated to describe how CSR activities upheld livelihood of the poor, under the parameter "Livelihood of the poor" in the revised MR. Further, the DoE is shared with photographs of CSR along with CSR record.
4. The ER sheet has been updated with import and export values of electricity and the MR has been updated as well wherever applicable.
5. The MR is now updated under the parameter "Quantitative employment and income generation". The employment record has been updated to include both type of number of employees on annual basis. Further, the detail of cost of O&M is also included in the MR for the monitoring period. As for reference, the DoE is provided with O&M contract and sample employment contract.
6. None of the activities in the project resulted in soil erosion. The DoE is provided with the record of observation logbook.
7. Landscape and visual impact are subject matters, the WTGs do not cause any aesthetics or visual beauty of the area. The project's site team works closely with the locals and this is evident that none has ever complained of hindrance to beauty of the area. Moreover, there has been no incident of any grievance in the monitoring period. The DoE is provided with the forms used.
8. There have been no incidents of any bird mortality in the monitoring period and the DoE has been provided with the Bird Strike register copy.
9. The project did not resettlement during the project construction and there have been no activities related to resettlement during the monitoring period. There have been no Grievances in the monitoring period and the DoE is provided copy of Grievance forms.
10. The project has a dedicated EHS (Environmental Health & Safety) team at the site and follows safety religiously. The DoE is provided with sample of HSE audit copy for reference.

Documentation provided as evidence by Project Participant

<ol style="list-style-type: none"> 1. Project logbook for soil 2. Training Records, HSE & HR Records for Orange 3. Photographs of CSR along with CSR record 4. Updated ER sheet with import & Export 5. O&M contract and sample employment contract 6. Project logbook for soil 7. Landscape and visual impact Grievance form 8. Bird Strike register forms. 9. Grievance form 10. Sample of HSE audit copy 		
Auditor's assessment comment	Date:	23/10/2018
<p>Following are the Observation of the DOE:</p> <ol style="list-style-type: none"> 1. Air quality details are now mentioned as per the requirement of registered passport. The project log book is checked and no incidence of Air quality pollution is observed. CAR is thus closed 2. The Training records are submitted. The Training (HSE and HR) Attendance list, Minutes of meeting of Training and conclusions of the Training are also submitted. CAR is closed 3. The uplifting for the livelihood of poor is now explained clearly in the MR and the same is checked by the assessment team during the verification site visit. CAR is thus closed. 4. The ER sheet is now corrected. The Value of the parameter is thus correctly mentioned in the revised MR Version 02. CAR is thus closed. 5. Sample employee contract is checked and found correct. The details of employee are now presented in the revised MR Version 02. However Cost spent for O&M is now mentioned in the revised MR. CAR is closed 6. Project O&M HSE log book is checked and no such incidence of soil erosion is observed for the monitoring period. CAR is thus closed 7. Project grievance register is checked by the assessment team and no such incidence of Landscape and visual impact is observed for the monitoring period. CAR is thus closed 8. Bird Strike register is checked by the assessment team and no such incidence of Species Mortality & Bird Strikes (Bird & Bat Deaths) is observed for the monitoring period. CAR is thus closed 9. The project is implemented on a barren land and thus there is no population which needed to be re-settled. The population living in nearby vicinity however have positive effects with the implementation of power plant as it provided job opportunity to the locals and sustained income which increases their livelihood of living. Moreover, grievance register as per the passport requirement is checked and no such incident is observed. CAR is thus closed. 10. The safety drills and Training records are checked and found that all safety measures are followed onsite. Moreover, the O&M operator is ISO 18001 certified organization and thus the quality Manual also mention detail regarding Safety of the worker and working condition. Assessment team found that the manual procedure is followed onsite and the safety of the people is given paramount importance. 		

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> FAR	<input type="checkbox"/> CL/CR	Number:	02
Raised by:	Sukanta Das		Ref. to checklist in above tables:	NA
Description of the audit finding			Date:	17/10/2018
Following discrepancies are observed by the assessment team: <ol style="list-style-type: none"> 1. Calibration details for the measuring device for the monitoring period is missing. The calibration agency name and due date of calibration is also missing for the energy meters. Calibration certificate is also not provided to the assessment team. Corrective action is sought in the MR. 2. The feeder wise details of the WTGs of the respective site are also missing. Corrective action is sought in the MR. 3. JMR and invoices are missing for the complete monitoring period is missing. 4. Commission Certificate is missing. Corrective action is sought in the MR. 5. The actual vs estimated value is not provided in % term. Also the detail explanation is missing in the MR. Moreover, the cross check mechanism like the invoice value is missing in the ER sheet. 6. Section C of the MR table i.e. Monthly Generation Data for the Monitoring Period and Key Reasons for Downtime during the Current Monitoring Period is not provided as supporting neither it is mentioned in the MR. Corrective action is sought in the MR. Based on the above observation corrective action is sought in MR and ER sheet				
Project Participant's response			Date:	22/10/2018
<ol style="list-style-type: none"> 1. The calibration details of the monitoring meters have been included in the section C of the monitoring report. Other details like agency name, due date are included as well. A copy of the calibration certificate is provided to the DoE. 2. The details of feeder wise WTGs is included in the section B of the revised MR. 3. Copy of JMR and invoices is provided to the DoE. 4. Copy of Commissioning certificate is provided to DoE 5. The actual vs estimated is provided in the section D.6 of the MR along with detailed explanation of reasons for variation in generation. The cross check mechanism of invoice values is now included in the ER sheet. 				
Documentation provided as evidence by Project Participant				
<ol style="list-style-type: none"> 1. Copy of the calibration certificate 2. None 3. Copy of JMR and invoice 4. Copy of Commissioning certificate 				
Auditor's assessment comment			Date:	23/10/2018
Following are the observation of the DOE: <ol style="list-style-type: none"> 1. The calibration frequency as per registered passport is once in a five year. The same is followed onsite and thus there is no delay in Calibration is observed. The calibration certificates are checked and found correct by the assessment team. CAR is thus closed 2. The feeder wise details are now mentioned in the revised MR Version 02 which is as per the onsite practice. CAR is thus closed 3. The JMR copy and invoices for the complete monitoring period is checked and found correct by 				

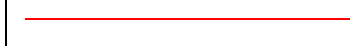
the assessment team. ER calculation is thus found correct. No overestimation of VERs is found and CAR is thus closed

4. The Commissioning certificate is checked and it is observed that the details mentioned in the MR is correct. CAR is thus closed
5. The actual vs estimated variation for the monitoring period is found correct. The cross check mechanism for invoice value and JMR value is also mentioned in the revise ER version 02. CAR is thus closed

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	Number:	03
Raised by:	Sukanta Das	Ref. to checklist in above tables:	NA
Description of the audit finding	Date:		17/10/2018
The grievance register records are missing and not submitted to the assessment team. Break down details of the power plant is not detailed out. Supporting log sheets are also missing. Corrective action sought.			
Project Participant's response	Date:		22/10/2018
The Grievance register is provided in responses to previous queries and same goes for break down details. The revised MR is updated to inculcate these details.			
Documentation provided as evidence by Project Participant			
Down time log			
Auditor's assessment comment	Date:		23/10/2018
The grievance register for the monitoring period is checked and found correct. No complain is received for the monitoring period from the local villagers and people. CAR is thus closed.			

4. REFERENCE

/01/	Monitoring Report Version 01 dated 12/07/2018, Monitoring Report Version 02 dated 22/10/2018, MR version 2.1 dated 08/01/2019, MR version 03 dated 27/03/2019														
/02/	ER sheets version 01 corresponding to MR version 01 dated 12/07/2018 ER Sheets version 02 corresponding to the MR version 02 dated 22/10/2018 ER sheet version 03 Corresponding to MR version 03 dated 25/03/2019														
/03/	Registered PDD Version 05 dated 22/03/2018														
/04/	Registered Passport Version 05 dated 11/06/2018														
/05/	GS registered Validation Report version 01 dated 18/06/2018														
/06/	ACM 0002 version 17.0														
/07/	CDM VVS version 01 for the project activities														
/08/	The Gold Standard Toolkit Version 2.2														
/09/	Training records (communication skills, safety Training, environment norms Training) of the employees (both skilled/non skilled) and employee feedback forms														
/10/	Statement for salary of employee issued by the project owner														
/11/	Monthly JMR reports issued by state utility and invoices raised by PP for the complete monitoring period														
/12/	<p>Calibration certificates of the complete monitoring period</p> <p>Calibration Details</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Energy Meter Serial No Details</th> <th>Calibration Date</th> <th>Calibration Due Date</th> </tr> </thead> <tbody> <tr> <td rowspan="2">PSS Meters</td> <td>Main Meter</td> <td>XC576471</td> <td>04/01/2016</td> <td>03/01/2021</td> </tr> <tr> <td>Check Meter</td> <td>XC576472</td> <td>04/01/2016</td> <td>03/01/2021</td> </tr> </tbody> </table> <p>*All the meters are of "Secure Make: with 0.2s Accuracy class.</p>	Energy Meter Serial No Details			Calibration Date	Calibration Due Date	PSS Meters	Main Meter	XC576471	04/01/2016	03/01/2021	Check Meter	XC576472	04/01/2016	03/01/2021
Energy Meter Serial No Details			Calibration Date	Calibration Due Date											
PSS Meters	Main Meter	XC576471	04/01/2016	03/01/2021											
	Check Meter	XC576472	04/01/2016	03/01/2021											
/13/	Commissioning certificates for the power plant														
/14/	Log book records for scheduled maintenance of the power plant for the complete monitoring period														
/15/	O&M agreement and O&M policy														
/16/	Bird Striking register														
/17/	Grievance register														
/18/	CSR records and photographic evidence.														
/19/	Photographic evidence of Seminars conducted about Education, Hygiene and gender equality.														
/20/	Plant employment records for the employees														
/21/	Project O&M HSE logbook, or interview with maintenance staff.														
/22/	Declaration for non-participating in REC mechanism program for the current monitoring period														



5. VERIFICATION STATEMENT

Applus+ Certification has been engaged by Orange Bercha Wind Power Private Limited to perform the first periodical verification of the "Wind Power Project in Madhya Pradesh by OBWPPL" (GS Ref. No. 4962).

The management of Orange Bercha Wind Power Private Limited 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 registered PDD, registered Passport and the applied methodology ACM0002 version 17.0

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. The verification can confirm that:

- the project is operated as planned and described in the project design document and passport 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 Passport 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 "Wind Power Project in Madhya Pradesh by OBWPPL" for the monitoring period 05/06/2016 to 31/03/2018 (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: 05/06/2016 to 31/03/2018 (Both days included)

Verified emissions in the above reporting period:

<i>Leakage emissions</i>	<i>0 tCO₂ equivalents</i>
<i>Project emissions</i>	<i>0 tCO₂ equivalents</i>
<i>Baseline emissions</i>	<i>202,064 190,687 tCO₂ equivalents</i>
<i>Emission reductions</i>	<i>190,687 202,064 tCO₂ equivalents</i>

Signature



Date: ~~08/01/2019~~04/04/2019

Assessment team: Mr. Sukanta Das (Team Leader / Leader Auditor)

Technical Reviewer: Mr. Denny Xue



DOE Representative Applus+ Certification BU Managing Director: Mr. Juan Sendín Caballero

