

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



Project Title: Wind Energy Project in Gujarat by Enn Enn Corp Limited
Monitoring Period: 01/09/2019 to 31/12/2020 (inclusive of both dates)
GS project ID: GS7755
Internal ID: 6620
Customer: Enn Enn Corp Limited
Date: 12/11/2022
Revision: 04

SUMMARY			
Reference No.	Date (first version)	Version No.	Date (last version)
A+SH_SYST_TQC_GS_VAL_VER_6620	18/10/2021	04	12/11/2022
GS4GG Verification			
GS4GG Certified Product (sought):		GS CER	
GS4GG SDG Impact Statement (sought):		Impact Certification	
General Information			
Client	Enn Enn Corp Limited		
Project Title	Wind Energy Project in Gujarat by Enn Enn Corp Limited		
Project Participants	Enn Enn Corp Limited		
Project Location	Gujarat state of India		
Contact Person	Mr. Abhishek N. Shah		
Monitoring Period:	01/09/2019 to 31/12/2020 (inclusive of both dates)		
GS4GG Version: GS4GG Principles and Requirements 1.2		GS4GG Sectoral Scope: 2 UNFCCC CDM Sectoral Scope: 1 Technical Area: 1.2	
GS4GG Activity Requirements: RE Activity Requirements - Version 1.4			
Applied Methodology Version: AMS-I.D. "Grid connected renewable electricity generation" (EB 61, Version 17)			
Current Methodology Version: AMS-I.D. "Grid connected renewable electricity generation" (E6 81, Version 17)			
Monitoring Report Version: 01 Date: 12/07/2021		Final Monitoring Report Version: 04 Date: 10/11/2022	
Certified Project Design Document Version: Assessment team checked the GS PDD version 05 dated 08/11/2022. Date: Provided above			
Estimated Values for the Monitoring period for all SDG:			
Sustainable Development Goals	SDG Impact	Estimated Average	Annual
13 Climate Action	GHG Emission Reduction	20,682 tCO ₂ e	
7 Affordable and Clean Energy	Clean Electricity supplied to grid	22,130 MWh	
8 Decent Work and Economic Growth	employments created	10 employments	
	Trainings conducted	01 Training	
Actual outcomes achieved for all SDG:			
SDG	SDG	Actual values achieved for this monitoring period	
7	Renewable Electricity Generated	23,133.65 MWh	
8	No. of Trainings provided	01 Training provided	

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8	Number of Jobs generated	15 employments
13	Emission Reduction	21,602 tCO ₂ e emission reduction

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 Enn Enn Corp Limited to perform the 1st verification of "Wind Energy Project in Gujarat by Enn Enn Corp Limited" (Ref. No. GS7755) applying the methodology AMS-I.D. Version 17. The same audit team of Applus+ Certification has performed the validation activity also.

The management of Enn Enn Corp Limited is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.

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

- a. The GS PDD including the monitoring plan;
- b. Monitoring report(s);
- c. The applied monitoring methodology;
- d. Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board;
- e. GS4GG guideline and related Annex.
- f. All information and references relevant to the project activity's resulting in emission reductions.

Enn Enn Corp Limited is setting up wind power project at Rajkot and Surendra Nagar district, Gujarat state of India with total capacity of 12.6 MW. The purpose of the project activity is to generate electrical power through operation of wind power plant.

The details of the WTGs & commissioning mentioned in the table:

WTG Location No.	Capacity (MW)	Village; District	Date of Commissioning
JSD - 43	2.1	Dahisara,Rajkot	30/09/2011
JSD - 44	2.1	Dahisara,Rajkot	30/09/2011
JSD - 76	2.1	Pipaliyadhoro, Surendranagar	30/11/2011
JSD - 51	2.1	Barvada, Surendranagar	29/03/2012
JSD - 24	2.1	Pipaliyadhoro, Surendranagar	30/11/2011
JSD - 25	2.1	Khadvavdi, Rajkot	18/11/2011

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 GS PDD.

Applus+ Certification confirms that the project is implemented in accordance with the validated PDD. The monitoring plan complies with the applied methodology AMS-I.D. Version 17 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

SUMMARY

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 21,602 tCO₂e emission reductions during period 01/09/2019 to 31/12/2020 (inclusive of both dates).

ASSESSMENT TEAM

Team Members	Type of Resource ¹	Organization (for OEs)
Lead Auditor: Dr. Atul Takarkhede	<input type="checkbox"/> IR <input type="checkbox"/> EI <input checked="" type="checkbox"/> OE	M/s True Quality Certifications Private Limited
Auditor: NA	<input type="checkbox"/> IR <input type="checkbox"/> EI <input type="checkbox"/> OE	NA
Technical Expert: Dr. Atul Takarkhede	<input type="checkbox"/> IR <input type="checkbox"/> EI <input checked="" type="checkbox"/> OE	M/s True Quality Certifications Private Limited
Technical Reviewer: Mr. Simon Shen	<input type="checkbox"/> IR <input checked="" type="checkbox"/> EI <input type="checkbox"/> 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 03.0	CDM validation and verification standard for project activities, Version 03.0
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
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 Enn Enn Corp Limited to perform the 1st verification of "Wind Energy Project in Gujarat by Enn Enn Corp Limited" applying the methodology AMS-I.D. Version 17 and GS4GG guideline. The same audit team of Applus+ Certification has performed the validation activity also. 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 GS PDD 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 03.0 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 AMS-I.D. Version 17.

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, GS 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 03.0 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

Enn Enn Corp Limited is setting up wind power project at Rajkot and Surendra Nagar district, Gujarat state of India with total capacity of 12.6 MW. The purpose of the project activity is to generate electrical power through operation of wind power plant.

The project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 20,682 tCO₂e per annum, thereon displacing 22,130 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian electricity grid, which is mainly dominated by thermal/ fossil fuel based power plant.

The details of the wind PV project & commissioning mentioned in the table:

WTG No.	Unique Identification No.	Commissioning date	Metering location
JSD - 43	SEL/2100/11-12/2349	30/09/2011	Connected by 33 KV grid line to 33/66 KV, 2 X 25 MVA capacity sub-station at Bhojapuri site.
JSD - 44	SEL/2100/11-12/2350	30/09/2011	Connected by 33 KV grid line to 33/66 KV, 2 X 25 MVA capacity sub-station at Bhojapuri site.
JSD - 76	SEL/2100/11-12/2346	30/11/2011	Connected by 33 KV grid line to 33/66 KV, 2 X 20 MVA capacity Halenda site sub-station at Halenda.
JSD - 51	SEL/2100/11-12/2326	29/03/2012	Connected by 33 KV grid line to 33/66 KV, 2 X 25 MVA capacity sub-station at Bhojapuri site.
JSD - 24	SEL/2100/11-12/2347	30/11/2011	Connected by 33 KV grid line to 33/66 KV, 2 X 20 MVA capacity Halenda site sub-station at Halenda.
JSD - 25	SEL/2100/11-12/2348	18/11/2011	Connected by 33 KV grid line to 33/66 KV, 2 X 20 MVA capacity Halenda site sub-station at Halenda.

The electricity generated by the project is exported to the Indian electricity grid and is being utilized by third parties. 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 GS PDD.

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 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. Simon Shen	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 GS PDD, 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

Interviewed Personnel	Functions	Organization
Mr. Abhishek N. Shah	PP Representative	Enn Enn Corp Limited
Mr. Rohit Dave	Villager	NA
Mr. Dharma Patil	Villager	NA

The details activity done during the remote audit is as below:

No physical verification was conducted by the DOE for this CDM verification due to high threat of COVID-19 in entire country of India, traveling restrictions, Applus+ internal safety policies and the safeguarding of the involved persons' health. Government of India has ordered nationwide lockdown from 25/03/2020². Latter during second wave of pandemic, it was further imposed by various state governments state-wise lockdown and quarantine rules. State of Maharashtra has imposed various restrictions on public activities & travelling.

Hence, in line with the guidance to relax mandatory site visits by DOEs due to COVID 19 pandemic published by UNFCCC, DOE has taken alternative measures to arrive at conservative estimation of emission reductions achieved, applying standard auditing techniques for verification, as referred in section 9.1.3 of the "CDM validation and verification standard for project activities, Version 03". Moreover, as verified from the ERPA provided by PP, PP has commitment of supplying of CERs to buyer by September 2021. So, the site visit cannot be postponed to a later date. Thus, as per guidance to relax mandatory site visits by DOEs due to COVID 19 pandemic, assessment team have conducted remote audit and used standard auditing techniques to verify information and compliance with applicable requirements to the extent possible, to ensure the completeness and credibility of the audit. The remote audit was conducted through Zoom and audit was attended by Site In-charge the site as well as consultant. Details of attendees are given below in section D.3. The topics discussed during the remote audit are given in below table;

Duration of Remote Audit: 20/07/2021 (Through Video Conferencing)				
No.	Activity performed on-site	Site location	Date	Team member
1.	Assessment team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring.	Rajkot and Surendra Nagar district, Gujarat state of India	20/07/2021 (Through Video Conferencing)	Mr. Atul Takarkhede

² https://www.mha.gov.in/sites/default/files/MHADOLrDt_3052020.pdf

Duration of Remote Audit: 20/07/2021 (Through Video Conferencing)				
No.	Activity performed on-site	Site location	Date	Team member
	Assessment team interviewed the local stakeholder and confirmed that there is no grievance resulted from the project activity in and out of the project location. The stakeholder confirmed that the project resulted in employment and improves lifestyles of the personal/families in the nearby villages. (Discussion with Stakeholder)			

As referred above, the objective of the remote assessment was to verify the following issues:

- Confirm the implementation and operation of the project in line with CDM PDD: the project activity is implemented as per the registered PDD and there is no change in capacity or design of the project activity since commissioning. Same was confirmed from commissioning certificates, technical specifications of the WTGs & recent site photographs, PPA, interviews with PP/Site in charge and JMR as well as invoices raised by PP towards state utility;
- Review the data flow for generating, aggregating and reporting the monitoring parameters: JMR procedures are followed at the project site in line with the state utility practice and are in line with the registered PDD. JMR procedure is confirmed during the interviews with PP and assessment team also checked entire monthly JMRs issued by the state utility for the project activity with the values provided in the ER sheet for the calculations of the emission reductions;
- Confirm the correct implementation of procedures for operations and data collection: during interviews with PP, it was confirmed that implementation of procedures for operations and data collection is in line with registered PDD. Service provider is responsible for the operations, maintenance as well as maintaining other technical data of the project activity. Performance and operation data of each WTG is controlled and maintained by service provider through the dedicated software and made available to the PP as & when required;
- Cross-check the information provided in the MR documentation with other sources: the information provided in the MR was crosschecked with the commissioning certificates, PPA, calibration certificates and JMRs are issued by Statutory authority and invoices are used for cross-checking;
- Check the monitoring equipment against the requirements of the PDD and the approved methodology, including calibrations, maintenance, etc.: monitoring meters are cross checked with the previous verification reports, interviews with PP, current photographs/videos submitted by PP and calibration is checked with the calibration certificates issued by State Utility authorized third parties;
- Review the calculations and assumptions used to obtain the GHG data and ER: calculation procedures and monthly generation data is checked with JMR and crosschecked with invoices;
- Identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters: during interviews with PP, it was confirmed that quality control and quality assurance procedures are in place. Metering arrangements & JMR procedure is defined and controlled by state utility and PP do not

have control on it. Assessment team checked all the monthly JMR values as well as crosschecked with the invoices and found that emission reductions are calculated conservatively.

Thus, to verify the implementation of project activity, onsite operation & maintenance, monitoring & management practices; assessment team has conducted Zoom 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), training records, breakdown log, O&M schedule, complaint/feedback register and other relevant records.

After telephonic/Zoom interviews with concerned onsite persons, document reviews & site videos/photographs submitted by PP; assessment team concluded that the project activity is implemented and operated in-line with the registered PDD. There is no change in the project design or operation and monitoring practices at site which can alter the applicability of meth 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, and Monitoring report submitted by the PP for current monitoring period. From review of JMR and invoices assessment team therefore of the opinion that project is implemented as described in the registered PDD and there is no change in monitoring practices as well as all monitoring parameters as envisaged in the PDD. All the monitored values are supported by the evidences i.e. JMRs and found that information provided in the MR is in line with the submitted evidences. Assessment team reviewed all the calibration certificates and found that monitoring meters are calibrated periodically. Detailed assessment provided later in Section E.7 of this report.

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

Name of the stakeholder	Mr. Rohit Dave
Occupation	Villager
<p>DOE QUESTION: Did PP promised employment opportunity?</p> <p>Answer: Yes, PP have employed locals in some technical work as well as unskilled men & women in non-technical work.</p> <p>DOE QUESTION: Did any improvements happened in the area due to wind projects?</p> <p>Answer: Yes, some roads are constructed in the area due to wind projects and thus helped to the locals.</p> <p>DOE QUESTION: Any pollution due to wind power plant/ Did company discards waste outside plant?</p> <p>Answer: No pollution due to wind plant and no any waste material thrown outside plant.</p> <p>DOE interviewed stakeholder on CSR activities by company, employment for locals including men & women, grievance filing & redressal mechanism of company & 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.</p>	

Name of the stakeholder	Mr. Dharma Patil
Occupation	Villager
<p>DOE questions: Did the power plant discharge any harmful pollutants? Answer: NO the plant does not discharge any harmful pollutants.</p> <p>DOE questions: Did PP conducts social (CSR) activities in nearby area? Answer: Yes. PP have done some CSR activities in village school & nearby villages</p> <p>DOE thus conclude that stakeholders are happy with the implementation of the project activity.</p>	

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 03. 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: 05, 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 1st verification for the project activity under GS and No FAR is raised during validation of the project activity.

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 GS PDD. 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 GS PDD.

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 plants
- PPA/Wheeling agreements for the project activity

The total installed capacity of the project is 12.6 MW, which are installed in Gujarat state of India.

The technical life time for the Wind Turbine Generator is 20 years 0 months.

Technical specifications of the WTGs are given in Table below:

S. No	Parameters	Specification
Operating data		
1.	Installed electrical output	2100 kW
2.	Cut in wind speed	4 m/s
3.	Rated wind speed	14 m/s
4.	Cut out wind speed	25 m/s
5.	Hub height	79m (Foundation top equal to ground level)
6.	Wind Class	IEC-IIA
7.	Rotational speed	15 to 17.6 rpm

S. No	Parameters	Specification
Rotor		
1.	Pitch System	Pitch regulated, electrical
2.	Rotor Diameter	88 m
3.	Rotor Swept Area	6082 m ²
4.	Material Type	Epoxy bounded fibre glass
Generator		
1.	Type	Single fed induction Generator with slip rings, variable rotor resistance with SUZLON-FLEXI-SLIP control system
2.	Rated Power	2100 kW
3.	Rated voltage	3 Phase- 690 V AC
4.	Frequency	50 Hz
5.	Protection	IP 54, IP2 3 for slip ring unit
6.	Insulation Class	Class H
7.	Cooling system	Air-cooled
8.	Slip control	Unique flexi slip providing slip up to 16.67%
Gear Box		
1.	Gear box type	3 stage (1 planetary and 2 helical)
2.	Gear ratio	1:98.8
3.	Nominal Load	2200 kW
Yaw system		
1.	Yaw drive system	3 electrical driven planetary drives
2.	Yaw bearing type	Slide bearing with gear ring & automatic greasing system
Braking system		
1.	Aerodynamic brake	3 independent systems with blade pitching mechanism
2.	Mechanical brake	Hydraulic disc brake, activated by hydraulic pressure + mechanical rotor lock, activated by hydraulic pressure
Certification		
1.	Design standards	GL 2003
2.	Quality	ISO 9001:2000, ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007
Tower		
1.	Tower type	Tabular Tower (4 sections)
2.	Corrosion protection	Epoxy/ PU coated

Assessment team checked the latitude and longitude of the project activity using GPS meter and also cross checked from the Google earth and found the detail to be correct. The same is defined below:

WTGs are located in Gujarat state of India. Assessment team also checked the locations of the project activity in the GS PDD and found that the geographical coordinates provided are found to be correct. Thus, locations provided in MR are found inline with revised documents of the project activity and are as below:

WTG Location No.	Unique Identification No.	Geographical Coordinates	Village	Taluka	District
JSD - 43	SEL/2100/11-12/2349	22°11'21.6" N 71°08'49.7" E	Dahisara	Jasdan	Rajkot
JSD - 44	SEL/2100/11-12/2350	22°11'09.6" N 71°09'01.7" E	Dahisara	Jasdan	Rajkot
JSD - 76	SEL/2100/11-12/2346	22°08'17.2" N 71°04'30.9" E	Pipaliyadhoro	Chotila	Surendra - nagar
JSD - 51	SEL/2100/11-12/2326	22°08'17.3" N 71°10'55.8" E	Barvada	Jasdan	Rajkot
JSD - 24	SEL/2100/11-12/2347	22°09'27.8" N 71°09'34.3" E	Pipaliyadhoro	Chotila	Surendra - nagar
JSD - 25	SEL/2100/11-12/2348	22°09'52.2" N 71°09'29.2" E	Khadvadi	Jasdan	Rajkot

Assessment team checked the commissioning date of the project activity from the Commissioning certificate issued by the government authority i.e. state utilities 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. Power plant is 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/Wheeling agreements 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/Wheeling agreements & JMR, it was observed that the rated capacity of the Wind power project is 12.6 MW. The capacity of the project is less than 15 MW and thus the same qualifies as small-scale project activity.

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/Wheeling agreements and interviews with PP. The grid structure as mentioned in the GS PDD is still applicable for the project and ex-ante emission factor as proposed in the GS PDD is used for emission reduction calculation. Assessment team noted that the project activity has entered a power purchase agreement with the state utility/third parties. The electricity is fed in the Integrated Indian grid.

The commissioning details as provided in the MR Version 01 & 03 were checked with the commissioning certificates issued by State Utilities. 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 GS PDD and no change in additionality/baseline is envisaged for the present monitoring period.

The amount of GS-CERs achieved during the present monitoring period is lower than the estimated value in the GS PDD. This is project is yet to install fully and 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 AMS-I.D. Version 17, applied by the proposed GS project activity.

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

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,	All the energy statement i.e. JMR sheets and the invoices for the complete monitoring period are checked and thus the

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	
			version tracking, traceability and security	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 AMS-I.D. Version 17, 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 GS PDD as follows:

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

$EF_{grid,OM,y}$, $EF_{grid,BM,y}$, $EF_{grid,CM,y}$ are considered as ex-ante fixed parameters. Assessment team checked the values, source of data, choice of data, purpose of the data mentioned in the MR from the registered PDD and confirms that the similar approach was considered for the current monitoring period also. The ex-ante fixed parameters are described below:

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

The values are as below:

$EF_{grid,OM,y} = 0.9568 \text{ tCO}_2/\text{MWh}$ (As per the GS4GG PDD version 04 and CO₂ Baseline Database Version 16 for the Indian Power Sector prepared by Central Electricity Authority)

$EF_{grid,BM,y} = 0.8682 \text{ tCO}_2/\text{MWh}$ (As per the GS4GG PDD version 04 and CO₂ Baseline Database Version 16 for the Indian Power Sector prepared by Central Electricity Authority)

$EF_{grid,y} = 0.9346 \text{ tCO}_2/\text{MWh}$ (As per the GS4GG PDD version 04 and CO₂ Baseline Database Version 16 for the Indian Power Sector prepared by Central Electricity Authority)

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_{PJ, y} = Quantity of net electricity generation supplied by the project plant/unit in year y in MWh

The parameter **EG_{PJ, y}** is calculated using the difference of export and import value measured from the electricity meter. Electricity produced and supplied to the grid is monitored through energy meter. Net electricity generated is obtained from the monthly JMR. The other parameters used for net electricity supplied to grid.

The Meter Reading Statement (i.e. JMR sheets) which provide the values of export, import and/or net export for the month. The same is thus used for emission reduction calculation. The net energy exported to the grid by project is measured by via electronic tri-vector main meter. Assessment team checked the value of net electricity exported and found the same to be correct as per the JMR statement. The value is also crosschecked from the bills raised towards wheeling as per the requirement of applied methodology and GS4GG PDD and found matching except values for the month in which apportioning was done as JMR period not coinciding with start date of monitoring period. The apportioning procedure have been checked and found correct. The QA/QC procedure is as per the requirement of the registered PDD and onsite practice.

Assessment team thus confirm that the value of 23,133.65 MWh as mentioned in the MR version 03 and emission sheet is correct and the same is in compliance with the requirement of Para 364 and 395 (e) of CDM validation and verification standard for project activities, Version 03.0.

There are other parameters to calculate net electricity as per the CDM monitoring plan are as below:

EG_{SS, Export} = Electricity export to the grid by the Project Activity and the other PPs connected to the same sub-station

The meter reading at ABT meter at substation is taken jointly by the representatives of Suzlon and State Utility on monthly basis. However, this data will not be directly used for the calculation of emission reduction. Verified value for the monitoring period is 96102.011 MWh and same found correct.

EG_{SS, Import} = Electricity Import from the grid by the Project Activity and the other PPs connected to the same sub-station

The meter reading at ABT meter at substation is taken jointly by the representatives of Suzlon and State Utility on monthly basis. However, this data will not be directly used for the calculation of emission reduction. Verified value for the monitoring period is 2439.600 MWh and same found correct.

EG_{yard, y} = The electricity generated by wind mills of the project activity, recorded by the yard meters near the wind mill.

Each WTG is equipped with a yard meter. The generation data of individual WTG is monitored through these meters & readings are taken by the representatives of Suzlon on monthly basis. Verified value for the monitoring period is 7048.699 MWh and same found correct.

Number of employment generation = Number of people employed directly due to the project activity

Employment records are maintained by the service provider and PP and were made available to the assessment team. Verified value for the monitoring period is 15 employments and same found correct.

Quality of Employment = Training of Staff

Training records are maintained by the service provider and PP and were made available to the assessment team. Verified value for the monitoring period is 01 training which was attended by 15 persons and same found 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 JMRS issued by state utilities 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 calibration details such as make, accuracy class serial number is as per the meter available onsite and checked through photograph of meters. The Calibration details are presented in below table. Calibration of meters carried out by a NABL accredited company for testing and calibration, Govt of India (<http://www.nabl-india.org/>) to carry out calibration.

Calibration frequency of the monitoring meters are once in 5 years as per the monitoring plan. 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.

Below are the details of meter numbers and testing dates, the meters are tested/calibrated during the monitoring period have been detailed below:

Meter name	Location	Make	Serial Number	Accuracy Class	Testing/Calibration dates	Validity	Calibration compliance
Mahika Line – I	WTG No. JSD – 43 & 44 (66 KV Bhojapuri, Mahidad)	L & T	GJ-1003-A	0.2s	28/12/2018	27/12/2021	Yes. No delay in calibration frequency of once in 5 years
Mahika Line – II	WTG No. JSD – 43 & 44 (66 KV Bhojapuri, Mahidad)	L & T	GJ-1004-A	0.2s	28/12/2018	27/12/2021	
Main Meter	WTG No. JSD – 76, 24, 25 & 51 (66 KV)	L & T	GJ-0945-A	0.2s	01/12/2018	30/11/2021	

Meter name	Location	Make	Serial Number	Accuracy Class	Testing/Calibration dates	Validity	Calibration compliance
Check Meter	Halenda, Mahidad) WTG No. JSD – 76, 24, 25 & 51 (66 KV Halenda, Mahidad)	L & T	GJ-0946-A	0.2s	01/12/2018	30/11/2021	

The Calibration details are presented in annexure I of the MR. Initial testing for all the meters is done by manufacturer as per the PPA/wheeling agreement, the calibration dates and frequency is under the control of state utilities and meters are sealed by state utilities.

Assessment team checked the same and found that the initial testing/calibration is appropriate and correct as traceability is ensured. The meters were tested as per the norms of IS 14697 and the meters are within the permissible error limit.

3.5 SDG Outcomes Monitoring

In the GS PDD Version 04 dated 04/08/2022 indicators are chosen for the monitoring of sustainable monitoring:

Meth/tool	Relevant indicator	SDG	GS PDD	MR	Compliance
Net electricity supplied to the grid	SDG 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix		Quantity of net electricity generation supplied by the project plant/unit in year y in MWh	Quantity of net electricity generation supplied by the project plant/unit in year y in MWh	Yes
Decent Work and Economic Growth	8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities		Number of people employed directly due to the project activity.	Number of people employed directly due to the project activity.	Yes
Decent Work and Economic Growth	8.6.1 Proportion of youth (aged 15-24 years) not in education, employment or training		Number of trainings provided per year	Number of trainings provided per year	Yes
Climate Action	Take urgent action to combat climate change and its impacts		Emission reductions achieved per year	Emission reductions achieved per year	Yes

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_{PJ, y}
Unit	MWh
Description	Quantity of net electricity generation supplied by the project plant/unit in year y in MWh
Source of data checked by the assessment team	JMR provided by State Utility

Value(s) of monitored parameter	23,133.65 MWh
Means of verification:	The parameter $EG_{PJ,y}$ is calculated based on the difference between values of "export" and "import" on the energy meter at the sub-station (evacuation point). The Meter Reading Statement (i.e. JMR sheets) issued by State board which provide the values of net export for the month. The same is thus used for emission reduction calculation. The net electricity exported are measured by Energy meters (main meter) installed at substation/evacuation point. The reading is recorded and the difference from last month reading gives the number of units imported/exported. The installed meters are of 0.2s accuracy class. 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 and onsite practice. Assessment team confirms the same during the onsite interviews with PP. Assessment team checked all the values of calculated Net electricity supplied to the grid from the Meter reading statement issued by State electricity board. Moreover, as per the requirement of the approved methodology and registered PDD, assessment team cross checked the net electricity value as presented in the JMR with the bills raised towards wheeling and found the values match with each other. The same is thus acceptable to the assessment team and thus emission reduction calculation is correct.
Cross check mechanism	The JMR is cross-checked with the bill 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 13 – Climate Action: Take urgent action to combat climate change and its impacts												
Data/parameter:	ER_y												
Unit	tCO ₂ e												
Description	Emission reductions achieved per year												
Source of data checked by the assessment team	Calculated in ER sheet												
Value(s) of monitored parameter	21,602 tCO ₂ e <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="3">Vintage Wise Breakdown</th> </tr> <tr> <th>From</th> <th>to</th> <th>Emission Reductions</th> </tr> </thead> <tbody> <tr> <td>01-09-2019</td> <td>31-12-2019</td> <td>4,947</td> </tr> <tr> <td>01-01-2020</td> <td>31-12-2020</td> <td>16,655</td> </tr> </tbody> </table>	Vintage Wise Breakdown			From	to	Emission Reductions	01-09-2019	31-12-2019	4,947	01-01-2020	31-12-2020	16,655
Vintage Wise Breakdown													
From	to	Emission Reductions											
01-09-2019	31-12-2019	4,947											
01-01-2020	31-12-2020	16,655											
Means of verification:	Emission reduction calculated in thus correct and accurate.												
Cross check mechanism	NA												

Relevant SDG Indicator	8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities
Data/parameter:	Quantitative employment
Unit	Number
Description	Number of people employed directly due to the project activity
Source of data checked by the assessment team	Plant records, Salary Slips and employee records for all the employees/Letter from O&M contractor for employment generation/ DOE interview with employees, local stakeholders etc.

Value(s) of monitored parameter	Assessment team checked the employment records. Total employment for present monitoring period is 15.	
	Period	SDG 8
	01/09/2019 to 31/12/2019	15 employments (12 skilled, 03 Unskilled)
	01/01/2020 to 31/12/2020	15 ³ employments
Means of verification:	The value for this parameter is taken from Plant records Plant records, Salary Slips. Attendance sheets. Verification team interviewed some employees & local stakeholders.	
Cross check mechanism	Not applicable	

Relevant SDG Indicator	8.6.1 Proportion of youth (aged 15-24 years) not in education, employment or training	
Data/parameter:	Quality of Employment	
Unit	Number	
Description	Number of trainings provided per year.	
Source of data checked by the assessment team	Plant records or the training records for all the employees/Letter from O&M contractor for employment generation	
Value(s) of monitored parameter	Assessment team checked Number of Trainings provided to employees & O&M staffs. A total of 01 Training programme to its employees and O&M staffs conducted. The training records for the monitoring period is checked by the assessment team and found correct.	
	Period	SDG 8
	01/09/2019 to 31/12/2019	01 Trainings
	01/01/2020 to 31/12/2020	00 ⁴ Trainings
	The details of the trainings are provided in the MR and same are found correct as per the training records submitted.	
Means of verification:	The value for this parameter is taken from Plant records i.e. training Records.	
Cross check mechanism	Not applicable	

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.

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

³ Due to COVID-19 Pandemic, PP doesn't employ new employees during the year 2020. However, total employment is more than the minimum employment estimated for the monitoring period.

⁴ Due to COVID-19 Pandemic, PP doesn't conduct any training during the year 2020.

for the current monitoring period is ruled out.

Assessment team also checked the other registry like UNFCCC and VCS and found that project is registered with UNFCCC Ref. ID 10073⁵.

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. Abhishek N. Shah of 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 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	0	23,133.65 MWh	23,133.65 MWh
SDG 8: Decent Work and Economic Growth	0	No. of employment opportunities created: 15 employment No. of trainings conducted: 01 training	No. of employment opportunities created: 15 employment No. of trainings conducted: 1 training
SDG 13: Climate Action	0	21,602 tCO ₂ e	21,602 tCO ₂ e

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	29,587.51 MWh	23,133.65 MWh
SDG 8: Decent Work and Economic Growth	01 training/annum and 10 people employed	No. of employment opportunities created: 15 employments No. of trainings conducted: 01 training
SDG 13: Climate Action	27,652 tCO ₂ e	21,602 tCO ₂ e

⁵ <https://cdm.unfccc.int/Projects/DB/URSCert1417432071.89/view>

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 01, Monitoring report Version 03 and corresponding ER calculation spread-sheets and are consistent with the applied methodology AMS-I.D. Version 17 and the monitoring plan contained in the GS PDD. 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 03 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 AMS I.D, 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 supplied by the project plant/unit in year y in MWh

$EF_{grid,CM,y}$ = 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 AMS-I.D., 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
 = 0.9346 tCO₂/MWh

$$BE_y = EG_{PJ,y} \times EF_{CO2,grid,y}$$

$$= 23,133.65 * 0.9346$$

$$= 21,602 \text{ tCO}_2\text{e (round down value)}$$

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	No Activities in the baseline

Project emissions:

The project is a Wind PV power project, no fossil fuel is be consumed according to the methodology AMS-I.D. Version 17 & according to PDD, $PE_y = 0 \text{ tCO}_2e$

Leakage:

As per AMS-I.D. Version 17, No leakage emission needs to be considered.

Emission reductions:

Thus, the emission reductions are:

$$ER_y = BE_y - PE_y$$

$$= 21,602 - 0 = 21,602 \text{ tCO}_2e$$

The actual achieved emission reduction for this monitoring period is 21.88% lower than estimated value in the GS PDD (21,602 tCO_{2e} against estimated 27,652 tCO_{2e} for 488 operational days). 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 GS PDD. 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 GS PDD.

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 GS 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 CERs for this Project, whichever occurs later.

4. REFERENCE

LIST OF DOCUMENTS	
S. No.	Document/Evidence/Reference/Web link, Version, Date
1.	Monitoring Report Version 01 dated 12/07/2021, Monitoring report version 02 dated 04/10/2021 Monitoring report version 03 dated 04/08/2022 (GS Review R1) Monitoring report version 04 dated 10/11/2022 (GS review R2)
2.	ER Sheets version 01 dated 04/10/2021

LIST OF DOCUMENTS	
S. No.	Document/Evidence/Reference/Web link, Version, Date
	ER Sheets version 02 dated 04/08/2022 ER Sheet version 03 dated 10/11/2022
3.	Revised GS PDD under validation Version 05 dated 08/11/2022 Final GS PDD under validation Version 04 dated 04/08/2022, Final GS Validation report version 02 dated 23/08/2022
4.	AMS-I.D. Version 17 Tool to calculate the emission factor for an electricity system
5.	CDM validation and verification standard for project activities, Version 03.0
6.	GS4GG guideline
7.	Training records of the employees (both skilled/non-skilled)
8.	O&M policy
9.	JMR & bills for the complete monitoring period
10.	Initial Test /calibration Certificates from manufacturer/state utilities for the monitoring meters
11.	Commissioning certificates for power plant
12.	Log book records for scheduled maintenance of the power plant for the complete monitoring period
13.	Sample work contract for both skilled and non-skilled manpower
14.	CSR report
15.	Grievance register
16.	HSE procedures
17.	Power purchase agreement/Wheeling agreements
18.	Technical manual from the Manufacturer
19.	Declaration from project developer dated 04/10/2021 for no double counting of the emission reductions

5. FINAL VERIFICATION STATEMENT

Applus+ Certification has been engaged by Enn Enn Corp Limited to perform the 1st verification of the “Wind Energy Project in Gujarat by Enn Enn Corp Limited” (GS Ref. No. GS7755).

The management of Enn Enn Corp 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 GS PDD (version 04 dated 04/08/2022) and the applied methodology AMS-I.D. Version 17.

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 “Wind Energy Project in Gujarat by Enn Enn Corp Limited” for the monitoring period 01/09/2019 to 31/12/2020 (inclusive of both dates) 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:

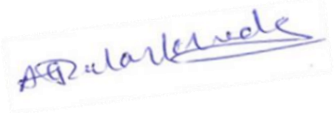


Reporting period:	01/09/2019 to 31/12/2020 (inclusive of both dates)
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Verified emissions in the above reporting period:

Leakage emissions	0 tCO ₂ e equivalents
Project emissions	0 tCO ₂ e equivalents
Baseline emissions	21,602 tCO ₂ e equivalents
Emission reductions	21,602 tCO ₂ e equivalents

Date: 12/11/2022
Lead Auditor: Dr. Atul Takarkhede
Tech. Expert: Dr. Atul Takarkhede
Auditor: NA
Tech. Reviewer: Mr. Simon Shen

Approver (*Applus+ Certification VVB Technical Manager*)
 Mr. Agustín Calle de Miguel

ASSESSMENT TEAM	
Lead Auditor: Dr. Atul Takarkhede	Technical Reviewer: Mr. Simon Shen
Signature: 	Signature: 
Approver: Mr. Agustín Calle de Miguel	
Signature: 	

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

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	Number:	01
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.2
Description of the audit finding		Date:	23/07/2021
<p>1. PP requested to submit Declaration confirming that there would not be double counting of credits for any particular monitoring period. Kindly submit.</p> <p>2. PP requested to submit Commission Certificate & PPA of the power plant. Kindly submit.</p>			
Project Participant's response		Date:	04/10/2021
<p>1. The project got registered under CDM (CDM ID 10073) Weblink - https://cdm.unfccc.int/Projects/DB/URSCert1417432071.89/view Since the project activity applied under GS4GG (as per Principles & Requirements document (version 1.2)) Submitting herewith declaration confirming w.r.t. there would not be double counting of credits for both GS and CDM scheme, confirming PP will not claim credits for both GS and CDM Scheme for the monitoring period under verification.</p> <p>1. Submitting herewith copy of commissioning certificate & PPA.</p>			
Documentation provided as evidence by Project Participant			
<p>Revised MR (version 02 dated 04/10/2021)</p> <p>Signed copy of declaration regarding not be double counting of credits</p> <p>Commissioning certificate</p> <p>Power Purchase Agreement</p>			
Auditor's assessment comment		Date:	18/10/2021
<ul style="list-style-type: none"> PP submitted declaration confirming that there would not be double counting of credits for any particular monitoring period. CAR closed. Commission Certificate and PPA is submitted by PP and information in the MR found correct as per documents submitted. CAR thus closed. 			

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	Number:	02
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.4, 3.5 & 3.6
Description of the audit finding		Date:	23/07/2021
<p>Following observation is made by the DOE regarding monitoring parameter:</p> <p>For the parameter SDG 13 - (EG_{PJ,y}): Monthly Generation Record / Joint Meter Reading sheets, Controller readings and invoices for cross check for the complete monitoring period is missing. The parameters are thus reserved.</p> <p>For the parameter SDG 8: Decent Work and Economic Growth - "Number of employment generation". Following discrepancies found:</p> <ul style="list-style-type: none"> The daily attendance registers and salary/wages sheet for total number of direct employees. The Letter from O&M contractor /other contractors for employment generation along with salary sheets/attendance registers etc. 			

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	Number:	02
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.4, 3.5 & 3.6
<ul style="list-style-type: none"> Annual Training Records- (Attendance sheet, Minutes of Meeting for the training provided- Safety, operational, soft skills etc.) and (HSE & HR) & Employee feedback forms are not submitted to the DOE. Moreover, Annual training details for the monitoring period are also missing in the MR. <p>Corrective action is sought for the same.</p> <p>For the parameter SDG 8 : Decent Work and Economic Growth - "Salary/Wages distributed to employees". Following discrepancies are observed for the current monitoring period:</p> <ul style="list-style-type: none"> The daily attendance registers and salary/wages sheet for total number of direct employees. The Letter from O&M contractor /other contractors for employment generation along with salary sheets/attendance registers etc. <p>Also, segregation of number of employees recruited as: Direct and indirect, Local peoples and outside, men & womens, Permanent/contract basis/Daily wages etc. As the parameter has a positive impact as the project results in direct employment and income generation, PP is requested to provide evidence how income generation and direct employment in the region is improved.</p>			
Project Participant's response		Date:	04/10/2021
<p>For the parameter SDG 13 (EG_{PPJ}) : Submitting herewith Monthly generation record (suzlon energy break up sheet) , joint meter reading sheet, controller reading and invoices for cross checking for the verification period 01/09/2019 to 31/12/2020 for verification.</p> <p>For the parameter SDG 8 (Descent Work and Economic Growth): Submitting herewith:</p> <p>Daily attendance register (for three month Jan, Feb & March'20)</p> <p>Salary sheet for direct employees (on sample basis)</p> <p>Wages details for employee on contract/daily basis</p> <p>Annual training record by O & M contractor i.e Suzlon for FY 2019-20 (total no. of programs, No. of participant, total man days & total man hrs.)</p> <p>Annual training details are now mentioned in revised MR (Version 02 dated 04/10/2021)</p> <p>Segregation of employees now mentioned as direct & indirect, local & outside, men & women, permanent & Contract basis.</p> <p>As total 5 employees are directly employed from local/nearby villages, hence project activity resulted in improved in income generation and direct employment generation in the area.</p>			
Documentation provided as evidence by Project Participant			
<p>JMR/Invoices</p> <p>Revised MR (Version 02 dated 04/10/2021)</p> <p>Training records'</p> <p>Salary slips</p> <p>Attendance register</p>			
Auditor's assessment comment		Date:	18/10/2021
PP have submitted the supporting documents and values of all the SDG parameters are found correct. CAR closed.			

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	Number:	03
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.4
Description of the audit finding		Date:	23/07/2021
PP has mentioned details of monitoring meters in the MR. However, to verify the same, PP requested to submit records of the calibration.			
Project Participant's response		Date:	04/10/2021
Submitting herewith calibration certificates for the applicable monitoring period (01/09/2019 to 31/12/2020)			
Documentation provided as evidence by Project Participant			
Calibration certificates for the applicable monitoring period (01/09/2019 to 31/12/2020)			
Auditor's assessment comment		Date:	18/10/2021
PP have submitted revised MR and test/calibration certificates for the monitoring meters installed and found correct. CAR thus closed.			

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	Number:	04
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	NA
Description of the audit finding		Date:	23/07/2021
As per the GS PDD a grievance forms are placed at site and is being monitored continuously for any comments from Stakeholder. However, the records are not submitted to the assessment team. CAR is thus raised.			
Further, Section G.3 of the MR; details of any legal contest are missing & only not applicable mentioned. Corrections sought.			
Project Participant's response		Date:	04/10/2021
Submitting herewith grievance register for verification. Necessary description added to section G.3 of the revised MR.			
Documentation provided as evidence by Project Participant			
Grievance register Revised MR (version 02 dated 04/10/2021)			
Auditor's assessment comment		Date:	18/10/2021
PP have submitted grievance records and found that no grievances recorded for the project activity. CAR closed.			

Type:	<input checked="" type="checkbox"/> CAR <input type="checkbox"/> CL/CR <input type="checkbox"/> FAR	Number:	05
Raised by:	Atul Takarkhede	Ref. to checklist in above tables:	3.6
Description of the audit finding		Date:	23/07/2021
PP requested to submit supporting documents for all the monitoring parameters for all SDGs. Also ER sheet missing in the submitted documents. Corrective actions sought.			
Project Participant's response		Date:	04/10/2021
Submitting herewith Monthly generation record (Energy share certificate issued by GEDA), controller reading and invoices for cross checking for the verification period 01/09/2019 to 31/12/2020 for verification.			
Documentation provided as evidence by Project Participant			
ER calculation sheet.			
Auditor's assessment comment		Date:	18/10/2021
PP has submitted Emission reduction sheet to assessment team. During review, team found ER sheet consistent with copies of JMR and invoice. Thus, accepted and CAR is closed.			

Appendix 2: Audit Team CVs

Name	SHORT CV. BACKGROUND INFORMATION
Dr. Atul Takarkhede	Dr. Atul Takarkhede counts with 10 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. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. He has Ph.D. (Environmental Science) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical reports related to environmental science. Currently he is associated with True Quality Certifications Private Limited and is empanelled with APPLUS certification to carry out GHG audit.
Mr. Simon Shen	Mr. Simon Shen (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD for 3.5 years before he joined Applus+. Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.