



**Verified Carbon
Standard**

“RENEWABLE WIND POWER PROJECT BY ADANI”



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

Project Title	Renewable Wind Power Project by Adani
Version	02.1
Report ID	BELL_CDM_2021_IND WPP Adani_VCS_VER

Report Title	Verification Report “Renewable Wind Power Project by Adani”
Client	Adani Green Energy Limited
Pages	37
Date of Issue	15-November-2021
Prepared By	LGAI Technological Center, S.A.(Applus+ Certification)

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Summary:

LGAI Technological Center, S.A.(Applus+ Certification) has performed the verification of the project “Renewable Wind Power Project by Adani.” VCS ID 2042, against VCS Standard Version 4.1. The scope of verification includes confirming the implementation of the monitoring plan of the registered VCS Joint PD& MR (version 02) dated 27/12/2019 and the application of the monitoring methodology “Grid-connected electricity generation from renewable sources”, ACM0002, Version 19.

The verification is consisted of three phases: i) desk review of the project; ii) remote visit and interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted following Applus+ certification internal quality procedures.

During the verification process 05 CARs, 00 CL and 00 FARs were raised. All the findings have been closed satisfactorily and the same has been discussed in Appendix 4.

Applus+ certification confirms that the monitoring system is in place and the emission reductions are calculated without material misstatements. The emission reductions from the project activity “Renewable Wind Power Project by Adani” in India during the period 29-June-2019 to 31-August - 2021 (including both days) amount to 652,424tonnes of CO₂e.

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1 INTRODUCTION

1.1 Objective

Adani Green Energy Limited has contracted LGAI Technological Center, S.A. (Applus+ Certification) to perform the periodic verification of the 'Renewable Wind Power Project by Adani' in India (hereafter called project). This project has already been registered as a VCS project (VCS ID 2042). The objective of this verification is a thorough and independent assessment of registered project activities against the applicable VCS requirement by the DOE. The verification process shall determine whether the proposed project activity complies with the requirements of latest VCS guidelines, applicability conditions of the selected methodology, relevant host country regulations and guidance issued by the VCS Board.

1.2 Scope and Criteria

The scope of verification is to assess the claims and assumptions made in the VCS monitoring report (MR) against the VCS criteria, including but not limited to, VCS standard, applied methodology and other relevant rules and requirements established for VCS project activities. The verification of this project was based on the registered project description & monitoring report /4/ and supporting documents submitted by the project proponent to the verification team. The documents were reviewed against the following guidance and protocols:

VCS standard Version 4.1, Issued: 19-September-2019; Updated: 22-April-2021 /16/

Approved baseline and monitoring methodology ACM0002 ver. 19.0 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"/14/

VCS Program Guide, Version 4.0, dated 19-September-2019 /17/

CDM VVS for project activities version 03.0 /22/

CDM PS for project activities version 03.0 /21/

The Verification is not meant to provide any consulting towards the project participants. However, stated requests for clarification and/or correction actions request may have provided inputs for improvement of the project design.

1.3 Level of Assurance

The verification team verified the complete monitoring data for all the parameters of the monitoring plan and confirms that the reported emission reductions are free from any type of material errors. Therefore, Applus+ certification confirms that the verification is conducted with reasonable level of assurance.

1.4 Summary Description of the Project

The project activity involves electricity generation by wind electric convertors and supplying the generated electricity to the state Grid. The project being a renewable energy generation activity, it leads to removal of fossil fuel dominated electricity generation. The project activity results in reductions of greenhouse gas (GHG) emissions that are real, measurable, and verifiable and also plays beneficial role in the mitigation of climate change.

During the time of registration the total installed capacity of the project was 150 MW of Wind project located in Gujarat state of India.

The project shall result in replacing anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 301,584 tCO_{2e} per year, thereon displacing 321,930 MWh/year amount of electricity from the grid over the 10 years crediting period. The emission reductions from the project activity "Renewable Wind Power Project by Adani" in India during the period 29-June-2019 to 31-August -2021 (including both days) amount to 652,424 tonnes of CO_{2e}.

The details of the project are given below:

Name of the SPVs	Capacity (MW)	Village	Taluka	District	State
Wind Three Renergy Private Limited	50	Meghpar, Lakhpat	Nakhatrana	Kutch	Gujarat
Wind One Renergy Private Limited	50				
Adani Green Energy (MP) Limited	50	Ratadiyaat			

This information was verified during remote assessment and found to be in line with the details provided in the registered PD /01/.

The WTGs have been commissioned between 29/06/2019, 02/07/2019 and 20-10-2019. The same was verified against the registered VCS PD/01/ and commissioning certificates/11/. The emission reductions from the project activity during the period 29-June-2019 to 31-August-2021 (including both days) amount to 652,424 tonnes of CO_{2e}.

2 VERIFICATION PROCESS

The registered VCS project is undergoing periodic verification under VCS, the approach adopted to ensure the quality of emission reductions is described in the following sections.

2.1 Method and Criteria

Verification was conducted using Applus+ Certification procedures in line with the requirements CDM validation and verification standard for project activities, Version 03.0 for the project activity and “VCS standard version 4.1 and program guideline version 4.0” and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the VCS project activity are appointed. The project activity does not fall under category “grouped projects”, hence any sampling methods not to be employed by the validation/verification body for the verification of GHG emission reductions or removals generated by the project.

Applus+ certification assessed and determined whether the proposed implementation and operation of the project activity, and the steps taken to report emission reductions comply with the criteria and relevant guidance provided by the VCS Board. The validation/verification process consist of the following three phases;

- A desk review of the VCS PD and VCS MR
- Remote visit and follow up interviews with project stakeholders
- The resolution of outstanding issues and issuance of final report and opinion

2.2 Document Review

The verification is performed primarily as a document review of the approved revised VCS PD, previous MR and Verification report and associated documents as stated in detail in appendix 1 of this document. The assessment is performed by a verification team using a protocol. The cross checks between information provided in the Monitoring report, VCS PD and information from sources other than those used, if available, the team’s sectoral or local expertise and, if necessary, independent background investigations.

2.3 Interviews

Due to the current situation with the global COVID-19 pandemic scenario and country wide lock down in most of countries across the globe, an on-site inspection has not been performed by the assessment team. However, the representatives of the PPs and onsite staff of PP were interviewed online via Skype/WhatsApp on 08-October-2021 i.e. personnel responsible for monitoring of the project activity, data collection and management, and QA/QC procedure. The details of the people interviewed are mentioned in the table below:

S N	Name	Organization
1.	Mr. Alpesh Gedia	Associate Manager,PP Representative//Adani Green Energy Ltd
2.	Mr. Kartik Pandya	Sr. Manager //Adani Green Energy Ltd
3.	Mr. K Hari Ram	PP Representative //Adani Green Energy Ltd
4.	Mr. Bharatbhai Patel	PP Representative //Adani Green Energy Ltd
5.	Mr. Kingshuk Das	Advisor/Consultant// EKI Energy Services Ltd.
6.	Mr. Barun Sharma	Advisor/Consultant// EKI Energy Services Ltd.

The topics covered during interview ranges from general features and implementation of project to technical details of the project like calibration details, monitoring and measuring system and data collection, recording and archiving procedures. The assessment was drawn based on the feedback received during interview coupled with the documentation and remote observations.

2.4 Site Inspections

As discussed in the above section, physical site inspection is not done for the current verification. However, to achieve a reasonable level of assurance, the assessment team has followed the alternative means to substantiate the verification criteria as described in the below table –

Assessment Criteria	Means of verification/source documents	Assessment opinion
Description of project activity	i. Commissioning certificates /9/ ii. PPA signed with PTC India Ltd./10/ iii. Latest VCS verification report /2.1/.	The information's with reference to project capacity, technology, plant equipment's and commissioning dates as

Assessment Criteria	Means of verification/source documents	Assessment opinion
	iv. Interview with PP representatives on 08-October-2021	provided in section 1.1 of MR are found consistent with the documents.
Compliance of the project implementation with the registered project design document	i. Monthly JMRs signed by SEB /8/ ii. Geographical co-ordinates (Location of Project activity) verified through Google Map ¹ as well as sharing of live location from PP representative onsite. iii. Latest VCS verification report /2.1/. iv. PPA signed with PTC India Ltd /10/ v. Interview with PP representatives on 08-October-2021 vi. Latest photographs of major project equipment's installed at site (i.e. Turbine, generators, energy meters, weir intake, penstock, tailrace etc.)/18/	Verified documents indicated the following information: <ul style="list-style-type: none"> • Serial number of energy meters (Main and Check) • Capacity of project • Name of project participant (Ownership of the project activity) Location of power house is verified through Google Map. Daily generation records are verified on sample basis to check the operational status of project activity. Grid connectivity of the project is confirmed through the PPA. All the information's regarding the project implementation as discuss above are further verified through previous VCS verification report/2.1/ and found consistent.
Compliance of the registered monitoring plan with applied methodologies and standardized baselines	i. Interview with PP representatives on 08-October-2021 ii. PPA signed with PTC India Ltd /10/ iii. Monthly JMRs signed by SEB /8/ iv. Invoices raised by project developer to SEB/7/ v. Photograph of all the WTGs, energy meters installed at site and screen shots of online	The organizational structure, responsibilities and competencies of the personnel confirmed through interview with PP representatives. Frequency of monitoring of parameters listed under approved monitoring plan is verified through JMRs /Invoices. The methods used for

¹<https://www.gps-coordinates.net/>

Assessment Criteria	Means of verification/source documents	Assessment opinion
	monitoring system/18/	<p>measuring, recording, storing, aggregating, and reporting the data on monitored parameters are verified through PPA and interactions with site personnel.</p> <p>Procedure for data uncertainty, emergency preparedness, roles and responsibility, operational and management structure are mentioned in the MR is confirmed through interview with PP representatives and found satisfactory.</p>
Compliance with the calibration frequency requirements for measuring instruments	i. Calibration certificates of energy meters/6/ ii. Monthly JMRs signed by SEB /8/ iii. PPA signed with PTC India Ltd/10/	<p>Calibration frequency and energy meter specifications (Sr.No., make, accuracy class) is verified through calibration certificates, photographs of energy meters and further verified through monthly JMRs and found consistent.</p> <p>Responsibility of calibration and maintenance of energy meters is solely under control of SEB; this is verified through the PPA.</p>
Assessment of data and calculation of emission reductions or net removals	i. Monthly JMRs signed by SEB /8/ ii. Invoices raised by project developer to SEB/7/	<p>Monthly values of monitoring parameters used in ER calculation are verified through JMRs and cross verified with the invoices.</p> <p>Methods, formulae and emission factor for calculating baseline emissions have been followed are in accordance with the applied methodology /14/.</p>

It is noteworthy that no sampling plan for verification is applied as 100% data is verified for the current monitoring period. Most of the reference document referred by the assessment team (above table) are either issued /endorsed by grid utility (SEB) Western regional Power committee, a government agency, hence is deemed authentic.

The assessment team has also used documents such as validation report/2.2/ available publicly. Furthermore, the project activity already verified under VCS previously and currently undergoing periodic VCS verification. Hence, based on the information's available through approved documents (VCS verifications), it can be confirmed that project is implemented and being operated as described in the registered PD/1.1/.

The assessment team has verified sufficient appropriate audit evidences, to reduce audit risk to an acceptably low level as requisite to achieve reasonable level of assurance for the current verification.

2.5 Resolution of Findings

The objective of this step is to identify, discuss and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and remote assessment. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and non-conformities, which may be of following types;

CAR (Corrective Action Request) is raised if one of the following occurs:

- Non-compliance with the monitoring plan, the methodology or the standardized baseline 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.

Clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met. All CARs and CLs raised by the Applus+ certification during verification shall be resolved prior to submitting a request for issuance.

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

All the findings that are raised and communicated to project participant during the verification are included under Appendix 4. The section also includes the response, if provided, by the project participants and an assessment by the verification team if it was closed out or otherwise.

2.5.1 Forward Action Requests

The project activity is undergoing periodic verification under VCS; there were no FARs raised during the validation /2.1/.

2.6 Eligibility for Validation Activities

Not applicable, as Applus+ holds the accreditation to perform validation activities in this Sectoral Scope.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project is not applied under any other GHG program like CDM, GS, hence not applicable. This was confirmed through a declaration/14/ submitted by the PP and hence accepted by the assessment team.

Audit team checked the REC Mechanism database of India and found that the project activity is not accredited / registered under REC mechanism. Further, declaration for the same is checked and found correct by the assessment team. Also assessment team checked the following registries to confirm the same. The details of the registries checked are as follows:

1. <https://www.recregistryindia.nic.in/>
2. <http://cdm.unfccc.int/>
3. <http://www.goldstandard.org/>

Rejection by other GHG programs

The Project is not rejected by other GHG programs. A declaration/14/ for the same is checked and found correct by the assessment team. Also assessment team checked the following registries to confirm the same. The details of the registries checked are as follows:

1. <https://www.recregistryindia.nic.in/>
2. <http://cdm.unfccc.int/>
3. <http://www.goldstandard.org/>
4. <https://verra.org/verra-standards-and-programs/>

The Project has no intend to generate any other form of GHG-related environmental credit for GHG emission reductions or removals claimed under the VCS Program. Renewable energy certificates are available for trading in the host country However, the same is not availed by the Project Proponent. The undertaking regarding the same is submitted by the PP which is acceptable to the assessment team and assessment team also checked the REC web site (<https://recregistryindia.nic.in/>) and found the declaration/14/ to be correct.

3.2 Methodology Deviations

There is no methodology deviation identified during the current monitoring period./2.1/.

3.3 Project Description Deviations

At the time of registration, the source of generation data for all the SPVs, the JMRs were considered as the source. However, REA statements are being issued for all the three SPVs. The REA statements being issued to PP as source of data for the generation is as per the requirement of State electricity authority and PP has no role to play in it. Hence, the generation data during the current monitoring period has been taken from the REA statements.

This deviation is of permanent nature (the change in source of data generation) and does not have any impact on the project applicability, baseline scenario and additionality.

As the deviation of the project activity does not have impact on scale & methodology of the project activity, additionality of the project activity with change in source of the data as per registered PD/01/ and will not lead overestimation of ER value, hence deviation is accepted by the audit team.

3.4 Grouped Project

This is not a grouped project. Therefore, this section is Not Applicable.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the remote-site audit with PP representative, it was concluded that the project is implemented as per the requirement of the registered VCS PD and approved monitoring plan. During the current monitoring period, it was observed through breakdown log sheet records onsite that no unforeseen incident/event evolved which can impact the operation of the project activity. The project underwent continuous operation and only scheduled maintenance as per the manufactures specification which is acceptable to the assessment team. Moreover, there is no unforeseen incident which can affect the applicability of the methodology and thus the same is acceptable to the assessment team.

Project location is confirmed by the assessment team through Google software. Moreover, assessment team confirm that the latitudes and longitudes as mentioned in the registered PDD is correct. The WTG wise latitudes and longitudes are confirmed below:

Name of the	Capacity (MW)	Latitude	Longitude
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SPVs			
Wind Three Renergy Private Limited	50	23° 12' 32.4108" N	70° 38' 7.6236" E
Wind One Renergy Private Limited	50	23° 12' 29.952" N	70° 37' 50.9772" E
Adani Green Energy (MP) Limited	50	23° 12' 30.42" N	70° 38' 26.0484" E

Starting date of the operation of the project activity is 29-June 2019 which is the date of commissioning/commercial operation of the 1st WTG/Assessment team checked the commissioning certificate and confirmed that the dates of Commission for the WTGs are correct. Assessment team also confirm during the remote site visit that there is no change in project design except deviation requested and the project is implemented as per the description provided in the registered PDD. Commissioning dates of WTGs are given below:

Name of the SPVs	Capacity (MW)	COD	Connection with the Grid	State	Usage
Wind Three Renergy Private Limited	50	29/06/2019	Indian Grid	Gujarat	Sale to grid
Wind One Renergy Private Limited	50	02/07/2019			
Adani Green Energy (MP) Limited	50	20/10/2019			

The technical parameters have been verified with the name plates as well as with the technical specifications of WTGs and also cross checked from the technical manual of the Manufactures. Assessment team confirms that the technical parameters are consistent with the registered VCS PD. The major technical specifications of the WTG are as follows:

Parameter	Technical Data / Description
General Parameters	
Turbine	INOX, DF/2000/113 (HH120)
Rated Output	2000 kW
Wind Speed at rated output (m/s)	10.5 m/s
Cut in Wind Speed (m/s)	3 m/s
Cut out Wind Speed (m/s)	20 m/s
Survival Wind Speed (m/s)	52.5 m/s
Rotor Diameter (m)	113 m
Hub Height (m)	120 m (Hybrid)
Rotor Speed (rpm)	14.2 RPM

Power Regulation Independent Mechanical Pitch	Independent Mechanical Pitch
WEC design for which wind regime	Low Wind Speed
Class of Machine	III A
Life	25 years
Generator	
Rated Power Output (kW)	2000 kW
Type	Asynchronous Double Fed Induction Generator
Voltage	690 V AC, 3 Phase
Operation Speed Range, RPM	Variable, 620-1380 RPM
Current	Rated stator current-1506-1526 A, Rated rotor current-526-529 A
Rated Generator Speed, RPM	1200 RPM
No. of Poles	6
Insulation Class	Stator-F, Rotor-F
Protection Class	IP 54
Coupling	Flexible
Frequency	50 Hz
Drive Train	Patented integral drive train
Voltage Variation	±10 %
Power Factor	0.95 Inductive ~ 0.95 Capacitive (Grid Voltage 690 V AC with Tolerance ±10%)
Auxiliary Power Consumption	0.5 % of Generation
Type of Cooling	Forced water cooling
Yawing System	
Type	Direct Contact, Driven by 4 Gear Motors
Yaw Motors	3 Phase, 3 kW, 50 Hz
Yaw Brake	Holding Brake with Electric & Manual Brake Release
AC Motor	Type S1
Pitching System	
Type	3 Phase Servo Motors
Control	Through Pitch Converter
Backup	Capacitor Based
Braking System for Rotor Braking	
Maintenance Braking	Hydraulic Operated Rotor Lock

Manual Locking Arrangement	Hydraulic Operated Rotor Lock
Rotor Blade	
Blade Material	Glass Fibre
Special attachments in Blade	Rain Deflector
Length of Blade	55.2 m
Swept Area of Blade	10029 sq. m
Swept Area per kW Power (sq. m/kW)	5.01
Number of Blades	3
Power Regulation	Pitch Control
Nacelle	
Nacelle Cover & Material	Fibre Reinforcement Plastic
Type of Nacelle Bed	Casting
Facilities for Loading & Unloading	Lifting Eye Bolts
Lightning Protection	Sliding Carbon Brushes & Cables
Weight	74.88 MT
Transformer Mounting	Switchyard
Sensors	
Anemometer	Acoustic Resonance Type (Acu-Res Technology)
Rotor Speed Sensor	Encoder Type 512 Pulse A,B,O/ A/B/O Channel, Push Pull O/p
Blade Position Sensor	Micro Switching Technology
Yaw Pad Sensor	Not applicable
Yaw Motor Speed Sensor	Not required
Over Speed Sensor	Programmable Monitoring Speed Relay
Resolver	Integrated Encoder in Motor
Cable Twist Sensor	YCD (B-Command)
Acceleration Sensor	Double Acceleration Transducer
Current Sensor	CT
Temperature Sensor	PT100
Power Panel	
Voltage	690 V
Short Circuit Level	EN 954 Category-1
Rating of Main MCCB	2000 A

Provision for Earth Fault Protection	Yes
Local Control Panel	
List of Displays	NC (Nacelle Cabinet) & TBC (Tower Base Cabinet)
Control Systems	
Controller Type	PLC
Display	FR 1 (SCADA Based)
Tower	
Tower Height (m)	118 m
Type	Hybrid
Material	Steel & Cement
Corrosion Protection	Yes
Ladder Type/Lift Provision	Ladder / Lift

The assessment team confirmed through remote site visit with PP representative that there is no proposed or actual change to the project design during this monitoring period. It was observed that the monitoring plan was implemented as per the registered VCS PD and applied methodology ACM0002, Version 19.0. The organisational role and responsibility as mentioned in the registered VCS PD is followed onsite. Meters are calibrated as per calibration frequency in registered VCS PD. All the emergency preparedness as mentioned in the registered VCS PD is followed onsite and no discrepancies were found regarding the same.

Assessment team concludes the following:

- a) There is no material discrepancies between project implementation and the project description provided in the registered PD/04/.
- b) The monitoring plan is implemented completely and monitoring system (i.e., process and schedule for obtaining, recording, compiling and analysing the monitored data and parameters) is appropriate.
- c) There is no material discrepancies between the actual monitoring system, and the monitoring plan set out in the project description and the applied methodology/08/.
- d) The GHG emission reductions or removals generated by the project have not included in an emissions trading program or any other mechanism that includes GHG allowance trading/16/.
- e) The project has not received or sought any other form of environmental credit, or has become eligible to do so since validation or previous verification.
- f) The project is registered under VCS only.
- g) The project activity is comply with indicators for sustainable development in the interim approval guidelines for Clean Development Mechanism (CDM) projects from India as discussed under section 1.11 of MR.

In view of the information's as verified above the assessment team is able to conclude that the project has been implemented as described in the project description.

4.2 Safeguards

4.2.1 No Net Harm

Being bundled renewable wind power generation project there is no negative environmental and socio-economic impacts in fact project activity contributes positively by providing environment friendly power generation leading to sustainable development of the region. Also, the generation of employment supports upliftment of socio-economic status of region. As per the EIA notification dated 14th September 2006, the wind power projects are exempted from environmental clearance. Hence, Environmental impact assessment is not required for this project activity.

The report on "Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects" prepared by MNRE dated September 2013 also confirms that wind power project activity operations do not result in direct air pollution, noise pollution. Hence verification team confirms that there are no any significant impacts due to implementation of project activity on air, water, soil quality and ambience are envisaged due to the project activity.

4.2.2 Local Stakeholder Consultation

The Project is already registered with VCS and registered VCS Project Description; sections 6 describe the Local Stakeholder Consultation Process as in-line with VCS requirement.

As a part of continuous feedback from stakeholders, there were no other major comments or protest raised by the stakeholders and they were totally in support for setting up of these kinds of projects in the region.

For ongoing communication, the PP has also placed a grievance register onsite where in the stakeholder can put down his/her complain and the same if found genuine will be addressed immediately. However, being renewable wind power generation project there is no feedback/grievance has been reported within this monitoring period verified from the photos provided by the Project participant.

4.3 AFOLU-Specific Safeguards

Not applicable for this verification.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The project monitoring has been carried in accordance with the registered VCS PD/01/ and the monitoring report/04/. The monitoring plan laid in the registered PD is being followed at the site/18/. The assessment team has verified the information flow (from data generation, aggregation, to recording, calculation and reporting for these parameters including the values) in the MR/04/. The emission reductions are purely based on the net electricity generated and exported from the machines. PP has provided all the sufficient data for current monitoring period. The values of the parameter net electricity generation supplied to the grid by each phase used in deriving the GHG emission reduction could be very well correlated between the data sets and ER spreadsheet/05/ provided by PP. The verification of each monitoring parameter has been discussed later in section 4.5.

The calculation method and formulae used in calculating baseline emission is in compliance to the methodology used i.e. ACM0002 Version 19 /09/. Since project activity is a wind power project, leakage emission and project emission has been considered as zero.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

The below tables describe how the parameter, that is to be measured according to the monitoring plan, has been verified to confirm that the actual monitoring complies with the monitoring plan, monitoring data has been thoroughly assessed and that the calibration requirements are met.

Parameter	Quantity of net electricity generation supplied by the project (Wind) plant/unit to the grid in year y, $EG_{p,j,y}$ (MWh)	
Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	The parameter is calculated and recorded on monthly basis. Quantity of net electricity generation supplied by the project plant/unit to the grid in year y, is calculated as: $EG_{p,j,y} = (\sum EG_{JMR, project, export,y} - \sum EG_{JMR, project, import,y})$

		<p>Where,</p> <p>$EG_{JMR, project, export, y}$ = Quantity of Electricity exported by the Project WTGs connected to the feeder i to the grid during the year y.</p> <p>$EG_{JMR, project, import, y}$ = Quantity of Electricity imported by the Project WTGs connected to the feeder i from the grid during the year y.</p>
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/09/.
	Monitoring equipment	No monitoring equipment is used as this parameter is calculated. However the parameter $EG_{JMR, project, export, y}$ and $EG_{JMR, project, import, y}$ are calculated using measured values, are continuously monitored, hourly measured and monthly recorded ² .
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	The accuracy of the monitoring equipment used to measure the input values used to calculate $EG_{JMR, project, export, y}$ and $EG_{JMR, project, import, y}$ is 0.2s, which is as per the registered PD/01/ which is as per the norm defined in the PPA/12/.

	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes. The accuracy of monitoring equipment's is valid for the entire range.
	Calibration frequency /interval:	Calibration frequency of the meters is once in 5 years.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes. The calibration frequency is once in 5 years as outlined in the registered PD/01/ is in accordance with the national standards/15/.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Calibration of the measuring equipment's is carried out by an accredited entity.
	Is(are) calibration(s) valid for the whole reporting period?	Calibration of meters is valid for the current monitoring period.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Yes. The calibration is carried out appropriately.
	How were the values in the monitoring report verified?	Cumulative value of $EG_{p,j,y}$ for entire monitoring period is reported in the monitoring report/04/, and monthly values in the ER calculation sheet/05/. The monthly values were verified from the credit notes issued by state utility and found to be consistent. Value of this parameter for the current monitoring period was

		verified as 696,482.80MWh.
	If applicable, has the reported data been cross-checked with other available data?	The monthly reported values of $EG_{p,j,y}$ were further cross checked with the monthly invoices raised by the PP /07/ to state utility and found to be consistent.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Remote assessment of the project activity confirms that the necessary QA/QC procedures are in place and the data management system is effective and reliable.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	No such issues.
Findings	CAR#4 & CAR#5 was raised and resolved	
Conclusion	<p>The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan.</p> <p>The emission reduction calculation for the project activity is estimated based on the electricity supplied by the WTGs. Since 100% data was verified, the team can ascertain that the values taken for emission reduction calculation are free from material errors.</p>	

Parameters fixed ex ante:

$EF_{grid,OM,simple}$; tCO_{2e}/MWh : it is the operating margin emission factor of NEWNE grid fixed at the time of project registration the mentioned value of $0.9610tCO_{2e}/MWh$ is consistent with the registered PD/01/.

$EF_{grid, BM, y}$; tCO_{2e}/MWh : it is build margin emission factor of NEWNE grid fixed at the time of project registration the mentioned value of $0.8644tCO_{2e}/MWh$ is consistent with the registered PD/01/.

$EF_{grid, CM, y}$; tCO_{2e}/MWh : it is the combined margin emission factor of NEWNE grid fixed at the time of project registration the mentioned value of $0.9368tCO_{2e}/MWh$ is consistent with the registered PD/01/.

Calibration of meters:

During the verification assessment of the project activity, accuracy of all the metering have been checked and found appropriate. The installation and working conditions of the meters were checked during the remote inspection and were found to be satisfactory. Details of meters are provided in below table:

The current meter details for Adani Green Energy Limited is as follows:

<i>Name of the SPVs</i>	<i>Feeder Details</i>	<i>Meter Serial No.</i>	<i>Accuracy Class</i>	<i>Make</i>	<i>Date of Calibration</i>	<i>Due date of calibration³</i>
Wind Three Renergy Private Limited	Feeder- 2	LT-0702-A (Main Meter)	0.2 s	L & T	13/06/2019	12/06/2024
		LT-0716-A (Check Meter)			13/06/2019	12/06/2024
	Feeder- 4	LT-0746-A (Main Meter)			13/06/2019	12/06/2024
		LT-0750-A (Check Meter)			13/06/2019	12/06/2024
Wind One Renergy Private Limited	Feeder- 5	LT-0754-A (Main meter)	0.2 s	L & T	13/06/2019	12/06/2024
		LT-0756-A (Check Meter)			13/06/2019	12/06/2024
	Feeder- 9	LT-0782-A (Main Meter)			13/06/2019	12/06/2024
		LT-0783-A (Check Meter)			13/06/2019	12/06/2024
Adani Green Energy (MP) Limited	Feeder- 304	RE-0026-A (Main Meter)	0.2 s	L & T	07/06/2019	06/06/2024
		RE-0037-A (Check Meter)			27/05/2019	26/05/2024
		GJU77231 (Standby Meter)	0.2 s	Secure	11/06/2019	10/06/2024

	Feeder- 305	RE-0043-A (Main Meter)	0.2 s	L & T	27/05/2019	26/05/2024
		RE-0027-A (Check Meter)			07/06/2019	06/06/2024
		GJU77230 (Standby Meter)	0.2 s	Secure	11/06/2019	10/06/2024

The assessment team has verified the monthly credit notes issued by the state utility and confirmed that only the data recorded through main meters is used to calculate net electricity supplied to the grid consequently for ER calculations.

Assessment on delay in calibration:

There is delay found in in meter calibration as the meter calibration frequency is “Once in five years” and as the meter calibration during the current monitoring period has happened in 2019 as provided above. , the latest calibration report dated 13 June 2019 has been provided by the PP and same has been updated in FVR. Hence, the due date for meter calibration is in 2024, which is outside the monitoring period.

The verification team has remotely checked all the meters and confirmed that the meters were working satisfactorily. Also the calibration of meters is completely under preview of state utility and PP has no control over the same as confirmed through interviews of site personnel and PPA signed by the PP with state utility/12/.

Hence it can be concluded that the approach followed by the PP is conservative and in line with the guidelines provided under paragraph 366(a) of VVS version 03.

The registered VCS PD/01/ & MR /04/ and remote audit observations confirm that the metering equipment are sealed and maintained by the state utility.

In view of the above discussion the assessment team is able to confirm that evidence used to determine the GHG reductions and removals are sufficient and appropriate with respect to quality and quantity.

GHG Calculations

The emission reduction as per the applied methodology equals the baseline emissions (project emissions and leakage emissions for such project activities is considered zero). The formula provided for the calculation of baseline emissions is:

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

Where:

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

$EG_{PJ, y}$: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh/yr)

$EF_{grid, CM, y}$: Combined Margin (CM) Emission Factor of NEWNE (tCO₂/MWh)

Since the project activity is the installation of a new grid-connected renewable power plant/unit at a site where no renewable power plant was operated prior to the implementation of the project activity, hence:

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

Where,

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

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

Thus, $BE_y = 696,482.80 * 0.9368$ tCO₂/MWh

= 652,424 tCO_{2e} (rounded down value)

The verification team confirms that appropriate methods and formulae for calculating baseline emissions have been followed. The assumptions, emission factors and default values that were applied in the calculations are justified. The verification team confirms that appropriate methods and formulae for calculating baseline emissions have been followed. The assumptions, emission factors and default values that were applied in the calculations are justified. The actual amount (652,424 tCO_{2e}) of emission reduction achieved during the current monitoring period are 0.68% lower than the estimated amount (i.e. 656,875 tCO_{2e}) of emission reductions at the time of validation, which is due to the high PLF achieved by the project activity during the monitoring period. It is to be noted that PLF is completely governed by the availability of wind, which is natural phenomenon and same is beyond the control of PP. Furthermore, the assessment team checked the registered PD and verified that in the sensitivity analysis, increase in PLF is well within the sensitivity analysis margin of 10% assumed in the financial calculation and does not have any impact on additionality; hence the assessment team has concluded the increase in emission reduction of the project activity is justified and acceptable.

All the data were made available and have monitored as per required monitoring frequency. The means of verification for the values of parameters, used for baseline emission calculation, is described above. The emission reduction calculation for the project activity is estimated based on the electricity supplied by the TG sets installed at site. Monthly values of electricity generated inserted in the ER sheet was verified with the Joint Meter Reading Report and Invoices provided by the project proponent. Since 100% data was verified, the team can ascertain that the values taken for emission reduction calculation are free from material errors. Therefore, the assessment team confirms that the emission reductions are free from any omissions, misstatement and material errors.

4.6 Non-Permanence Risk Analysis

Not applicable for the project activity. This section is not applicable for non-AFOLU projects.

5 VERIFICATION CONCLUSION

Applus+ certification, contracted by Adani Green Energy Limited, has performed the independent verification of the emission reductions for the VCS project activity (VCS ID- 2042) “Renewable Wind Power Project by Adani” in India for the monitoring period 29-June-2019 to 31-August-2021 as reported in the Monitoring Report Version 02 dated 11/10/2021. The Adani Green Energy Limited is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity.

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity

Applus+ certification commenced the verification on the basis of the baseline and monitoring methodology ACM0002 Version 19, the monitoring plan contained in the registered VCS Joint PD& MR Version 02, dated 27/12/2019 and VCS guidelines version 4, Monitoring Report Version 02 dated 11/10/2021 as per the process described under Section 2 of this report.

Applus+ certification verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Applus+ certification planned and performed the verification by obtaining evidence and other information and explanations that Applus+ certification considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions reported for the project activity for the period 29-June-2019 to 31-August-2021 are fairly stated in the Monitoring Report Version 02 dated 11/10/2021. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM0002, Version 19, and the VCS standard 4.1.

Verification period: From 29/06/2019- 31/08/2021 (including both days)

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

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2019	58,357	0	0	58,357
2020	307,057	0	0	307,057
2021	287,010	0	0	287,010
Total	652,424	0	0	652,424

APPENDIX 1: <REFERENCES>

S.No	Title of Document	Version	Date
1.	Registered VCS Joint PD& MR	02	27-12-2019
2.	VCS Validation Report	1.0	27-12-2019
3.	VCS Monitoring Report	01	20/09/2021
4.	VCS Monitoring Report (Final)	02	11/10/2021
5.	ER spread sheet (corresponding to the final monitoring report)	01	20/09/2021
6	Certificates of Calibration for all the meters belongs to project activity	-	29/06/2019 to 31/08/2019
7.	Invoice issued by PP to state DISCOM	-	For the period 29/06/2019 to 31/08/2019
8.	Monthly JMR and Credit notes issued by MSEDCL for the current verification period.	-	For the period 29/06/2019 to 31/08/2019
9.	“Grid-connected electricity generation from renewable sources”, ACM0002	19.0	-
10.	CEA Database	Version 14	Dec 2018
11.	Commissioning certificate for all the WTGs of the project activity issued by state electricity authority	-	
12.	Power Purchase Agreements signed between respective Project developer and state electricity authority	-	-
13.	VCS webpage for the project, VCS ID 2042; https://www.vcsprojectdatabase.org/#/project_details/2042	-	Last accessed on 12/10/2021
14.	Letter of declaration dated from PP regarding not having created or sought any other form of environmental credit for the same period	-	11/10/2021

S.No	Title of Document	Version	Date
15.	Central Electricity Authority (Installation and Operation of Meters) Regulations Notified on 17/03/2006 <u>No. 502/70/CEA/DP&D</u> Amendments Notified on 26/06/2010 <u>No. 502/6/2009/DP&D/D-I</u>	-	Dated 17/03/2006
16.	VCS Standard	Version 4.1	Issued:19-09-2019 Updated: 22-04-2021
17.	VCS Program Guide	Version 4	19/09/2019
18.	Remote assessment –interviews of staff personnel, physical inspection of monitoring system	-	31/08/2021
19.	Monthly generation reports issued by O&M contractor	-	For the period 01/01/2021 to 31/06/2021
20.	Clean Development Mechanism Validation and Verification Standard for Project Activity (CDM-VVS for PA), as per EB 101, Annex 2	3.0	09/09/2021

APPENDIX 2: <COMPETENCY STATEMENT>

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

The composition of audit team shall be approved by the Applus+ Certification ensuring that the required skills are covered by the team.

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

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

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

Name	Qualification	Coverage of scope	Coverage of technical Area	Financial aspect	Host country Experience	Attendance to the Remote-Site Assessment
Vivek Kumar Ahirwar	Lead Auditor (LA) & Technical Expert (TE)	Yes (1)	Yes (1.2)	N/A	Yes	Yes
Simon Shen	Technical Reviewer (TR)	Yes (1)	Yes (1.2)	N/A	N/A	N/A

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

Vivek Kumar Ahirwar is a BEE-Certified Energy Auditor by Govt of India with over eight years of relevant experience in energy efficiency, energy audit, thermal and electrical energy generation technology from renewable source and energy conservation in energy intensive industries, designated consumers and commercial buildings, implementation of energy conservation building codes, research, process and green building projects. He is a certified lead auditor for ISO 14001 EMS and 14064. He has experience under various categories of projects stating from renewable to waste to supercritical projects and WCD. He has successfully audited more than 100 GHG (CDM/VCS/GS) projects in different states across the India. He has done Mater in Technology (Energy Management) from a premier institute, School of Energy& Environmental Studies, DAVV, Indore (M.P.), India and Bachelor of Engineering (Mechanical Engineering) from Govt. Engineering college, Rewa, RGPV, India.

Simon Shen (Master Degree in Thermal Energy Engineering, Bachelor Degree in Environmental Engineering) is a Lead Auditor appointed by Applus+ LGAI for the GHG project assessment. He is based in Shanghai. He has several years of work experience in environmental protection field. Before he joined Applus+ LGAI, he had been worked for TÜV SÜD as a GHG Validator/Verifier and ISO 9001/14001 Lead Auditor for 3.5 Years.

APPENDIX 3: <ABBREVIATIONS>

ABT	Availability Based Tariff
BEF	Baseline Emission Factor
BM	Build Margin
CAR	Corrective Action Request
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CL	Clarification Request
CMS	Central Monitoring System
CMP	Conference of Parties Serving as Meeting of Parties
CO2	Carbon dioxide
DISCOM	Distribution Company
EB	Executive Board
EPC	Engineering, Procurement and Construction
FAR	Forward Action Request
GHG	Green House Gas
ISO	International Standards Organization
JMR	Joint Meter Reading
kW	Kilowatt
kWh	Kilowatt hour
MEDA	Maharashtra Energy Development Agency
MFR	Multi-Function Relay
MR	Monitoring Report
MSEDCL	Maharashtra State Electricity Distribution Company Limited

MW	Megawatt
MWh	Megawatt-hour
NEWNE	Northern Eastern Western Northern-Eastern
O&M	Operation and Maintenance
PD	Project Description
PLF	Plant Load Factor
PP	Project Proponent
PPA	Power Purchase Agreement
QA/QC	Quality Assurance and Quality Control
TOD	Time of the Day
UNFCCC	United Nations Framework Convention on Climate Change
WEC	Wind Energy Convertor
WEG	Wind Energy Generator
WTG	Wind Turbine Generator
VCS	Voluntary Carbon Standard
VCSA	Voluntary Carbon Standard Association
VCS PD	VCS Project Description
VCUs	Voluntary Carbon Units

APPENDIX 4: <FINDINGS OVERVIEW>

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

FAR ID		Section no.	NA	Date :DD/MM/YYYY
Description of FAR				
N/A				
Project participant response				Date :DD/MM/YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD/MM/YYYY
NA				

Table 2. CL from this verification

CL ID	01	Section no.	MR	Date :
Description of CL				
Project participant response				Date :
Documentation provided by project participant				
DOE assessment				Date:

Table 2. CAR from this verification

CAR ID	01	Section no.	Page 2 of the MR	Date : 09/10/2021
Description of CAR				
On page no 2 of the MR, Contents is not correct and as per the template of the VCS MR. PP is requested to rectify the same.				
Project participant response				Date : 11/10/2021

The contents table in the page no 2 of the VCS MR is now corrected and updated as per the VCS MR template.	
Documentation provided by project participant	
Revised VCS MR, version 2.	
DOE assessment	Date: 11/10/2021
PP has updated the MR and found in line with the requirement. Hence CAR#1 is closed	

CAR ID	02	Section no.	1.10& 2.2	Date : 09/10/2021
Description of CAR				
1. PP is requested to submit the deceleration letter to avoid the double counting.				
2. Grievances/ LSC register are not submitted to auditor for assessment.				
Project participant response				Date : 11/10/2021
1. The declaration letter for no double counting is now provided to the DOE assessment team.				
2. Grievance register is now submitted to the DOE assessment team.				
Documentation provided by project participant				
1. PP declaration letter for no double counting.				
2. Grievance register.				
DOE assessment				Date: 11/10/2021
PP has provided the Declaration letter dated 11/10/2021 and Grievance register and same are acceptable to the assessment team. Hence CAR#2 is closed.				

CAR ID	03	Section no.	3.1	Date : 09/10/2021
Description of CAR				
PP has not provided the breakdown details in the MR and technical details of WTG. Hence CAR is raised for the same.				
Project participant response				Date : 11/10/2021
1. The breakdown details are now provided in the revised MR also the supporting of breakdown details are now submitted to the DOE assessment team.				
2. The technical details of the WTGs are mentioned in section 3.1 of the revised MR. The technical details of the WTG can be accessed from the brochure from the weblink http://www.inoxrenewables.com/image/tech-pdf.pdf . The weblink is already provided in the MR.				
Documentation provided by project participant				

1. Revised VCS MR, version 2. 2. Breakdown details	
DOE assessment	Date:11/10/2021
PP has provided the breakdown and technical details as required along with the revised MR. Hence CAR#3 is closed.	

CAR ID	04	Section no.	ER sheet	Date : 09/10/2021
Description of CAR				
PP shall clarify why the generation is not started during the said months and Rounddown is also not applied in the ER sheet. Corrective action is raised for the same.				
Project participant response				Date : 11/10/2021
1. The commissioning details of the project activity as per the commissioning certificate is as below. <ol style="list-style-type: none"> 1. Wind Three Renergy Private Limited; Commissioning Date- 29/06/2019 2. Wind One Renergy Private Limited; Commissioning Date- 02/07/2019 3. Adani Green Energy (MP) Limited; Commissioning Date- 20/10/2019 From above details, the earliest commissioning date of the project is 29/06/2019. However, actual generation of each SPV started after the respective commissioning dates. Hence, during the current verification period, the generation data has been considered from the dates when the first set of REA statements and the Invoices for the respective SPVs are generated.				
2. The round down is applied in the ER sheet.				
Documentation provided by project participant				
Actual ER calculation sheet				
DOE assessment				Date: 11/10/2021
PP has provided the updated MR and ER along with the evidence and same is acceptable to the verification team. Hence CAR#4 is closed				

CAR ID	05	Section no.	ER sheet	Date : 09/10/2021
Description of CAR				
<p>Section 2.3.2 of the MR; the PP has discussed that At the time of registration, the source of generation data for all the SPVs, the JMRs were considered as the source. However, REA statements are being issued for all the three SPVs.</p> <p>The PP is requested to clarify how the REA statements generated and how this procedure is in-line with register monitoring methodology Grid-connected electricity generation from renewable sources ACM0002-Version 19.0 (refer "Data / Parameter table 15." as the monitoring plan require that says "Total electricity produced by the project activity, including the electricity supplied to the grid and the electricity supplied to internal loads, in year y" is require frequency of the Continuous measurement and at least monthly recording by electricity meters .</p> <p>Also, as per discussion during remote audit discussion; the monitoring plan section "Data Measurement" and "Data collection and archiving" is not in-line with the actual monitoring practice, please clarify?</p>				
Project participant response				Date : 11/10/2021
<p>The onsite monitoring practice for these projects are CTU units. The generation data is automatically recorded from the Energy Meters which is directly linked to the SLDC and therefore the data feed directly can be checked at the SLDC (i.e. WRPC- Western Regional Power Committee), which combines the data and generates the REA statements monthly for the project participant. Based upon the generation data as per the REA statements i.e. Scheduled energy, PP is raising the Invoices monthly to the WRPC.</p>				
Documentation provided by project participant				
Monthly REA statements and Invoices				
DOE assessment				Date:11/10/2021
<p>PP has taken the deviation from the original registered PD and provided justification in MR and response to the finding and same has been checked during the audit with the PP, same has been acceptable to the verification team. Hence CAR#5 is closed.</p>				

Table 3. FAR from this verification

FAR ID	XX	Section No.	XX	Date :
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Description of FAR	
NA	
Project participant response	Date : DD/MM/YYYY
NA	
Documentation provided by project participant	
NA	
DOE assessment	Date: DD/MM/YYYY
NA	