



Project Verification Report Form (VR)

BASIC INFORMATION

Name of approved UCR Project Verifier / Reference No.	SQAC Certification Pvt. Ltd.
Type of Accreditation	<input type="checkbox"/> CDM or other GHG Accreditation <input type="checkbox"/> ISO 14065 Accreditation <input checked="" type="checkbox"/> UCR Approved
Approved UCR Scopes and GHG Sectoral scopes for Project Verification	01 Energy industries (Renewable/Non Renewable Sources)
Validity of UCR approval of Verifier	October 2021 onwards.
Completion date of this VR	22/07/2024
Title of the project activity	5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL) at Rajasthan.
Project reference no.	UCR ID: 439
Name of Entity requesting verification service	M/s. Transport Corporation of India Limited (TCIL).
Contact details of the representative of the Entity, requesting verification service	M/s. Transport Corporation of India Limited, (TCIL). Corporate address: TCI House, 69 Institutional Area, Sector 32, Gurugram- 122 207, Haryana, India.
Country where project is located	India
Applied methodologies (approved methodologies by UCR Standard used)	Applied Baseline Methodology: AMS-I.D.: "Grid connected renewable electricity generation", version 18



	<p>Standardized Methodology: Baseline: UCR Protocol Emission Factor</p>
<p>GHG Sectoral scopes linked to the applied methodologies</p>	<p>01Energy industries (Renewable/Non-Renewable Sources)</p>
<p>Project Verification Criteria: Mandatory requirements to be assessed</p>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> UCR Standard <input checked="" type="checkbox"/> Applicable Approved Methodology <input type="checkbox"/> Applicable Legal requirements /rules of host country <input checked="" type="checkbox"/> Eligibility of the Project Type <input checked="" type="checkbox"/> Start date of the Project activity <input checked="" type="checkbox"/> Meet applicability conditions in the applied methodology <input checked="" type="checkbox"/> Credible Baseline <input checked="" type="checkbox"/> Do No Harm Test <input checked="" type="checkbox"/> Emission Reduction calculations <input checked="" type="checkbox"/> Monitoring Report <input checked="" type="checkbox"/> No GHG Double Counting <input type="checkbox"/> Others (please mention below)
<p>Project Verification Criteria: Optional requirements to be assessed</p>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria <input checked="" type="checkbox"/> Social Safeguards Standard do-no-harm criteria
<p>Project Verifier's Confirmation: The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following:</p>	<p>The UCR Project Verifier SQAC Certification Pvt. Ltd., certifies the following with respect to the UCR Project Activity 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Rajasthan.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the



	<p>Project Concept Note dated 22/04/2024 and Monitoring Report V1 dated 25/06/2024 including the applicability of the approved methodology AMS -I.D. :“Grid connected renewable electricity generation”, version 18 & Standardized Methodology: Baseline: UCR Protocol Emission Factor and meets the methodology applicability conditions and has achieved the estimated GHG emission reductions, complies with the monitoring methodology and has calculated emission reductions estimates correctly and conservatively.</p> <p><input checked="" type="checkbox"/> The Project Activity is generating GHG emission reductions amounting to the estimated 42,099 tCO_{2eq}, as indicated in the MR V1, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable UCR rules, including ISO 14064-2 and ISO 14064-3.</p> <p><input checked="" type="checkbox"/> The Project Activity is not likely to cause any net-harm to the environment and/or society.</p> <p><input checked="" type="checkbox"/> The Project Activity complies with all the applicable UCR rules and therefore recommends UCR Program to register the Project activity with above mentioned labels.</p>
Project Verification Report, reference number and date of approval	Verification Report UCR Project ID: 439 dated 22/07/2024



Name of the authorised personnel of UCR Project

Verifier and his/her signature with date

Santosh Nair
Lead Verifier (Signature)
SQAC Certification Pvt Ltd





PROJECT VERIFICATION REPORT

Section A. Executive summary

M/s. Transport Corporation of India Limited (TCIL), has contracted SQAC Certification Pvt. Ltd. to carry out the verification of the project activity of 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Rajasthan, India, UCR approved project ID: 439 to establish number of CoUs generated by project over the crediting period from **16/06/2013 - 31/12/2023** (10 years 06 months 15 days).

We believe that the total GHG emission reductions over the crediting / verification period stated in the Monitoring Report V1 (MR), submitted to us is accurate and in line with the UCR guidelines.

The GHG emission reductions were calculated based on UCR Protocols which draws reference from, CDM UNFCCC Methodology, AMS-I.D.: “Grid connected renewable electricity generation”, version 18, Standardized Methodology: Baseline: UCR Protocol Emission Factor. The verification was done remotely by way of video calls / verification, phone calls and submission of documents for verification through emails as per UCR guidelines.

SQAC is able to certify that the emission reductions 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Rajasthan, India, (UCR ID – **439**) for the period **16/06/2013 to 31/12/2023** amounts to **42,099 CoUs (42,099 tCO₂eq)**.

Project Verification team, technical reviewer and approver

Section B. Project Verification Team

Sr. No.	Role	Last name	First name	Affiliation	Involvement in		
					Doc review	Off-Site inspection	Interviews
1.	Team Leader	Nair	Santosh	n/a	yes	yes	yes
2.	Validator	Nair	Santosh	n/a	yes	yes	yes



Technical reviewer and approver of the Project Verification report

Sr. No.	Role	Type of resource	Last name	First name	Affiliation
1.	Technical reviewer	IR	Shinganapurkar	Praful	SQAC Certification Pvt. Ltd.
2.	Approver	IR	Shinganapurkar	Praful	SQAC Certification Pvt. Ltd.

Section C. Means of Project Verification

C.1. Desk/document review

As part of the review and validation process, M/s. Transport Corporation of India Limited (TCIL), submitted a comprehensive set of documents for examination to the Lead Verifier. The documents included the Project Concept Note (PCN), Monitoring Report V1 (MR), ER calculation sheet, Commissioning Certificates, Meter Calibration, Power Purchase Agreement, Invoices, Joint Meter Readings and additional data provided upon request pertaining to all related projects. These documents were thoroughly reviewed to ensure compliance with relevant standards and guidelines, and to validate the accuracy and completeness of the information provided.

C.2. Off-site inspection

Date of offsite inspection: 13/07/2024

Sr. No.	Activity performed Off-Site	Site location	Date
1.	Interview conducted over Video call/Telephonic discussions	J70 & J71 Baramsar	13/07/2024
2	Supporting documents provided before, during, after the verification.	Baramsar	13/07/2024



C.3. Interviews

Sr. No.	Interview			Date	Subject
	Name	Designation	Affiliation		
1	Mr. Sandeep Sharma	Site in charge (Assistant Manager)	M/s. Transport Corporation of India Limited. (TCIL)	13/07/2024	Meter Calibration, Joint Meter Readings and Invoices.
2	Mr. Girdhari Bargujar	Executive - Finance	M/s. Transport Corporation of India Limited. (TCIL)	13/07/2024	Compliance, Overview, Double Counting and Project commissioning

C.4. Sampling approach

Since there are 4 Wind Turbine generators (WTGs) i.e., J70, J71, J227 & J228 installed of total capacity of 5 MW, 2 WTG's have been selected for complete site monitoring through video, which is J70 & J71.

C.5. Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

Areas of Project Verification findings	No. of CL	No. of CAR	No. of FAR
Green House Gas (GHG)			
Identification and Eligibility of project type	Nil	Nil	Nil
General description of project activity	Nil	Nil	Nil
Application and selection of methodologies and standardized baselines			
- Application of methodologies and standardized baselines	Nil	Nil	Nil
- Deviation from methodology and/or methodological tool	Nil	Nil	Nil
- Clarification on applicability of methodology, tool and/or standardized baseline	Nil	Nil	Nil
- Project boundary, sources and GHGs	Nil	Nil	Nil
- Baseline scenario	Nil	Nil	Nil
- Estimation of emission reductions or net anthropogenic removals	Nil	Nil	Nil
- Monitoring Report	Nil	Nil	Nil



Start date, crediting period and duration	Nil	Nil	Nil
Environmental impacts	Nil	Nil	Nil
Project Owner- Identification and communication	Nil	Nil	Nil
Total	Nil	Nil	Nil

Section D. Project Verification Findings

D.1. Identification and eligibility of project type

Means of Project Verification	<p>Project Type Identification: The project is identified as a 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan, which falls under the category of renewable energy projects, specifically wind energy.</p> <p>Eligibility Criteria: The project adheres to the eligibility criteria set by the Universal Carbon Registry (UCR), which includes the use of the AMS-I.D methodology for grid-connected renewable electricity generation. The project's capacity of 5 MW qualifies it as a small-scale project activity under this methodology.</p> <p>Verification Process: The verification involves assessing the project's compliance with the UCR's standardized baseline emission factors and methodologies. It also includes checking the project's registration number, monitoring period, and the amount of GHG emission reductions achieved.</p> <p>Documentation and Data Integrity: The project's monitoring report provides detailed information on the technology and equipment installed, the project's location and the GHG emission reductions achieved. The verification process ensures that the data is reliable transparent and adheres to QA/QC measures.</p>
Findings	<p>Upon verification, the document provided, the project is identified as a Renewable Energy Project under the Sectoral Scope 01 for energy industries using renewable sources. The project involves a 5 MW Wind</p>



	<p>Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan which qualifies as a Greenfield plant. It is eligible under the AMS-I.D methodology, version 18, for grid-connected renewable electricity generation. The project displaces electricity that would have otherwise been generated by fossil fuel-based power plants, contributing to greenhouse gas (GHG) emission reductions. No negative environmental impacts are associated with the project, supporting its eligibility for carbon credits.</p>
Conclusion	<p>In conclusion, the project is identified as a renewable energy project under the sectoral scope of “Energy industries (Renewable/Non-Renewable Sources)” and is categorized under AMS-I.D: “Grid connected renewable electricity generation”, version 18. The project involves a 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan, India, which is eligible for carbon credits. The project has successfully displaced fossil fuel-based electricity generation with renewable wind energy, resulting in significant greenhouse gas (GHG) emission reductions. The total CO₂eq emission reductions achieved during the monitoring period from 16/06/2013 to 31/12/2023 amount to 42,099 tCO₂eq, with no leakage reported. Therefore, the project meets the criteria for carbon credit issuance under the Universal Carbon Registry (UCR) standards.</p>



D.2. General Description of Project Activity

<p>Means of Project Verification</p>	<p>Monitoring and Reporting: The project activity involves the generation of electricity using wind turbines, and the electricity supplied to the grid is monitored and reported by the State Electricity Board authorities.</p> <p>Quality Assurance and Control: Quality Assurance and Quality Control (QA&QC) measures are implemented to manage data reading, recording, auditing, and archiving, ensuring the reliability and transparency of data.</p> <p>Meter Calibration: The energy meters used for recording the electricity fed to the state utility grid are calibrated and inspected periodically according to the specifications and requirements of the State Electricity Board.</p> <p>Joint Measurement: The measurement of electricity supplied to the grid is carried out jointly once a month in the presence of both the developer's representative and officials of the state power utility, ensuring accuracy and agreement on the recorded readings.</p> <p>These verification methods ensure that the project's electricity generation and contribution to greenhouse gas emission reductions are accurately measured and reported.</p>
<p>Findings</p>	<p>Upon Verification, the project activity involves a 5 MW Wind Power Project by Transport Corporation of India Limited (TCIL), in Rajasthan, aiming to generate clean energy and reduce GHG emissions. It includes the installation of 4 Wind Electricity Generators (WEGs) with a total capacity of 5 MW, contributing to climate change mitigation by displacing fossil fuel-based power generation in the grid. The electricity produced is sold to the state electricity utility, with the project resulting in a total of 42,099 tCO₂eq emission reductions over</p>



	<p>the monitoring periods. The project supports sustainable development by providing economic benefits, promoting technological advancement, and having no negative environmental impacts.</p>
Conclusion	<p>In Conclusion, the general description of the project activity outlines the initiative by M/s. Transport Corporation of India Limited (TCIL), to generate clean energy through a 5 MW Wind Power Project in Rajasthan. The project involves the installation of 4 Wind Electricity Generators (WEGs) with a total capacity of 5 MW, contributing to climate change mitigation by reducing greenhouse gas emissions. The electricity produced is sold to the state electricity utility, displacing power that would have otherwise been generated by fossil fuel-based plants. Overall, the project supports environmental well-being by utilizing renewable wind energy, which aligns with sustainable development goals.</p>



D.3. Application and selection of methodologies and standardized baselines

D.3.1 Application of methodology and standardized baselines

<p>Means of Project Verification</p>	<p>Data Verification: The project’s electricity supply to the grid is measured monthly using calibrated energy meters by the State Electricity Board authorities in the presence of the project implementer or its representatives.</p> <p>Meter Calibration: The energy meters are calibrated and inspected according to state electricity board specifications and requirements to ensure accurate readings.</p> <p>Quality Assurance: Quality Assurance and Quality Control (QA&QC) measures are implemented to manage data reading, recording, auditing, and archiving, ensuring the reliability of the data.</p> <p>Monitoring System: A Central Monitoring Station (CMS) is connected to the Wind Turbine Generators (WTGs) via high-speed WLAN modem or fiber optic cable for real-time monitoring and control.</p> <p>These verification procedures are crucial for the accurate calculation of emission reductions and the issuance of Carbon Offset Units (CoUs)</p>
<p>Findings</p>	<p>Upon verification, the 5 MW wind power project employs the AMS-I.D. methodology for grid-connected renewable electricity generation, assuming that without the project, electricity would be produced by fossil fuel power plants with an emission factor of 0.9 tCO₂/MWh. Over the monitoring period from June 16, 2013, to December 31, 2023, the project achieved significant greenhouse gas emission reductions, totalling 42,099 tCO₂eq. The project boundary includes the wind turbines and the Indian grid system, with zero project emissions due to its renewable nature. The crediting period matches the</p>



	monitoring period, confirming the project's contribution to reducing GHG emissions.
Conclusion	<p>In Conclusion, the methodology applied is AMS-I.D: “Grid connected renewable electricity generation”, version 18, which is suitable for small-scale renewable energy projects supplying electricity to the grid. The project activity involves generating electricity through wind energy, which is a clean and renewable source, and displaces the equivalent amount of power that would have been generated by fossil fuel-based grid-connected power plants. The baseline scenario is established as the grid-connected electricity system, which is predominantly fossil fuel-based. The emission factor used for the baseline scenario is 0.9 tCO₂/MWh, as recommended by the Universal Carbon Registry (UCR), which is a conservative estimate for Indian projects.</p> <p>The conclusion is that the project successfully applies the methodology and standardized baselines, leading to a total of 42,099 tCO₂eq emission reductions for the monitoring period from 16/06/2013 to 31/12/2023.</p>



D.3.2 Clarification on applicability of methodology, tool and/or standardized baseline

<p>Means of Project Verification</p>	<p>Monitoring Plan: The project activity involves generating electricity from wind, with real-time status monitored at a Central Monitoring Station (CMS) via high-speed WLAN modem or fiber optic cable.</p> <p>Data Management: Electricity delivered to the grid is recorded monthly in the presence of both the developer’s representative and officials from the state power utility, ensuring data reliability and transparency.</p> <p>Quality Assurance and Control (QA&QC): Measures are in place for data reading, recording, auditing, archiving, and calibration of metering devices according to state electricity board specifications.</p> <p>Metering Devices: Calibrated and inspected periodically to ensure accuracy in readings, with joint inspections and sealing by authorized representatives of the company and the state utility.</p> <p>This verification approach ensures the project’s compliance with the applicable methodology, tools, and standardized baselines for carbon credit issuance. The project’s emission reductions are calculated using the UCR recommended emission factor and the net electricity supplied to the grid, with no leakage emissions reported. The project contributes to sustainable development by utilizing wind energy, a clean source of energy, and generating electricity without GHG emissions.</p>
<p>Findings</p>	<p>Upon verification, the project utilizes the AMS-I.D methodology for grid-connected renewable electricity generation, suitable for small-scale renewable projects. While no specific monitoring tools are mentioned, standard procedures ensure accurate and reliable data</p>



	<p>on electricity supplied to the grid. The Universal Carbon Registry (UCR) recommends an emission factor of 0.9 tCO₂/MWh, conservatively applied to calculate emission reductions. The project transitioned from CDM registration to seeking CoUs under the UCR, ensuring no double counting of carbon credits. These points confirm the project's adherence to the relevant methodology, use of standardized baselines, and prevention of emission reductions being counted more than once.</p>
Conclusion	<p>In conclusion, the project aligns with the AMS-I.D methodology for grid-connected renewable electricity generation by establishing a new wind power plant that exports electricity to the grid. It applies the UCR-recommended emission factor of 0.9 tCO₂/MWh conservatively, in line with guidelines for Indian projects not previously verified under any GHG program. The project demonstrates compliance with the applicable methodology and employs conservative estimates for baseline emissions, ensuring credible and reliable carbon credit verification.</p>



D.3.3 Project boundary, sources and GHGs

<p>Means of Project Verification</p>	<p>Project Boundary: The spatial extent includes the project power plant and all power plants connected physically to the electricity system, which encompasses the Wind Turbine Generators and the Indian grid system.</p> <p>Sources and GHGs: The verification will consider CO₂ emissions from electricity generation in fossil fuel-fired power plants as the baseline, with CH₄ and N₂O emissions deemed minor and not included. For the project activity, since it involves wind power generation, there are no CO₂, CH₄, or N₂O emissions associated with the electricity generation.</p> <p>Verification Process: The electricity meter records both export and import of electricity from the Wind Farm plant. The net electricity supplied to the grid is measured monthly using calibrated energy meters by the State Electricity Board authorities in the presence of the project implementer or its representatives. The meters are jointly inspected, sealed, and calibrated according to state electricity board specifications and requirements to ensure accuracy in the readings. The data is monitored continuously, with hourly measurements and monthly recording. Quality Assurance and Quality Control (QA&QC) measures are in place for data reading, recording, auditing, and archiving. The metering devices are periodically inspected and calibrated to ensure the accuracy of metering and safety aspects of the project operation. The net energy exported to the grid is cross-checked with the monthly settlement invoices.</p>
<p>Findings</p>	<p>Upon Verification, the document outlines that the project boundary for the 5 MW Wind Power Project by TCIL includes the project power plant and all power plants connected to the electricity system. The only greenhouse gas (GHG) considered is CO₂, as CH₄ and</p>



	<p>N₂O are deemed minor sources and not included. The project activity, being a wind power project, does not emit CO₂, CH₄, N₂O, or any other GHGs. Therefore, the baseline emissions are calculated based on the net electricity generation displaced from the grid, which would have been produced by fossil fuel-fired power plants. The document confirms that the project results in zero project emissions and leakage emissions.</p>
Conclusion	<p>In conclusion, the document outlines the project boundary for the 5 MW Wind Power Project by TCIL in Rajasthan, India, including the wind turbine generators and the Indian grid system. It specifies that the only greenhouse gas (GHG) considered is CO₂, as emissions from the project activity are zero. The baseline scenario assumes that the electricity generated by the project would have otherwise been produced by fossil fuel-based power plants. The document concludes that the project results in net GHG emission reductions of 42,099 tCO₂eq for the monitoring period, contributing to climate change mitigation efforts. No leakage emissions are considered, as the project does not involve biomass and has zero leakage.</p>



D.3.4 Baseline scenario

<p>Means of Project Verification</p>	<p>Electricity Measurement: The net electricity supplied to the grid is measured monthly using calibrated energy meters by the State Electricity Board authorities in the presence of the project implementer or its representatives.</p> <p>Meter Calibration: The energy meters are calibrated and inspected properly and periodically, according to the State Electricity Board’s specifications and requirements to ensure accuracy in the readings.</p> <p>Data Management: Quality Assurance and Quality Control (QA&QC) measures are implemented to control and manage data reading, recording, auditing, as well as archiving data and all relevant documents.</p> <p>Reporting: The data is monitored on a daily basis and submitted to the project proponents (PPs) on a daily basis. The PPs have established QA&QC measures to ensure the accuracy of metering and safety aspects of the project operation.</p> <p>These measures ensure that the project’s electricity generation and subsequent emission reductions are accurately recorded and reported.</p>
<p>Findings</p>	<p>Upon verification, the project applies a conservative grid emission factor of 0.9 tCO₂/MWh for 2013-2023 to calculate baseline emissions and displaces electricity that would have been generated by fossil fuel-based power plants on the Indian grid. It results in significant CO₂ emission reductions, totalling 42,099 tCO₂eq from June 16, 2013, to December 31, 2023. By generating electricity through wind energy, the project contributes to climate change mitigation and reduces anthropogenic greenhouse gas emissions, demonstrating the effectiveness of renewable energy in reducing reliance</p>



	on fossil fuels and supporting sustainable development goals.
Conclusion	<p>In conclusion, the baseline scenario for the 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan, as described in the document, is that the electricity generated by the project would have otherwise been supplied by grid-connected power plants using fossil fuels. The project displaces the need for fossil fuel-based electricity generation, thereby reducing greenhouse gas emissions. The document states that the baseline emissions are calculated using a grid emission factor of 0.9 tCO₂/MWh, which is considered conservative compared to the combined margin grid emission factor derived from the Central Electricity Authority (CEA) database in India. Consequently, the project activity results in a total of 42,099 tCO₂eq emission reductions for the monitoring period from 16/06/2013 to 31/12/2023. This displacement of fossil fuel-based power with renewable wind energy contributes to climate change mitigation efforts.</p>



D.3.6 Estimation of Emission Reductions or Net Anthropogenic Removal

<p>Means of Project Verification</p>	<p>Monitoring Plan: The project activity involves generating electricity from wind, and the Wind Turbine Generators (WTGs) convert wind energy into electrical energy. The electricity fed to the state utility grid is recorded jointly at the incoming feeder of the state power utility.</p> <p>Data Collection: The data on net electricity supplied to the grid is collected monthly by State Electricity Board authorities in the presence of the project implementer or its representatives. The energy meters record both export and import of electricity from the Wind Farm plant.</p> <p>Calibration and Accuracy: The metering devices are calibrated and inspected properly and periodically, according to state electricity board's specifications and requirements, to ensure accuracy in the readings.</p> <p>Quality Assurance and Control (QA/QC): Quality Assurance and Quality Control measures are implemented to manage data reading, recording, auditing, and archiving data and all relevant documents. The data is monitored on a daily basis and submitted to project proponents (PPs) daily.</p> <p>Calculation of Emission Reductions: The net electricity exported to the grid is measured using calibrated energy meters.</p> <p>The difference between the measured quantities of grid export and import is considered as net export, which is used to calculate emission reductions.</p> <p>This verification process ensures that the project's emission reductions are accurately recorded and reported.</p>
<p>Findings</p>	<p>Upon Verification, the document outlines the process</p>



	<p>for estimating emission reductions or net anthropogenic removals for a 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan. The project's baseline scenario assumes electricity would have been generated by fossil fuel-based power plants if the project had not been implemented. The total CO₂eq emission reductions for the monitoring period (16/06/2013 to 31/12/2023) are calculated to be 42,099 tCO₂eq. The methodology used follows AMS-I.D: "Grid connected renewable electricity generation", version 18, with a grid emission factor of 0.9 tCO₂/MWh. No leakage emissions are reported, and project emissions are considered zero since it's a renewable energy project. The findings indicate a successful displacement of fossil fuel-based electricity with renewable wind energy, contributing to climate change mitigation.</p>
Conclusion	<p>In conclusion, for the Estimation of Emission Reductions or Net Anthropogenic Removal is that the project has achieved a total of 42,099 tCO₂eq emission reductions during the monitoring period from 16/06/2013 to 31/12/2023. This was accomplished by displacing the equivalent amount of power that would have been generated by fossil fuel-based grid-connected power plants. The project activity, therefore, contributes to climate change mitigation efforts by providing a renewable energy source that does not emit greenhouse gases during electricity generation. There are no leakage emissions, and the baseline emissions are calculated using a conservative emission factor recommended by the Universal Carbon Registry.</p>



D.3.7 Monitoring Report

Means of Project Verification	<p>Joint Measurement: The electricity fed to the state utility grid is measured jointly at the incoming feeder of the state power utility, once a month, in the presence of both parties (the developer's representative and officials of the state power utility).</p> <p>Meter Calibration: The metering devices are calibrated and inspected properly and periodically, according to state electricity board's specifications and requirements, to ensure accuracy in the readings.</p> <p>Quality Assurance and Control: Quality Assurance and Quality Control (QA&QC) measures are implemented to control and manage data reading, recording, auditing, as well as archiving data and all relevant documents.</p> <p>Real-Time Monitoring: The connectivity of all the Wind Turbine Generators (WTGs) to a Central Monitoring Station (CMS) through high-speed WLAN modem or fiber optic cable helps in providing real-time status of the turbine at CMS with an easy Graphical User Interface (GUI).</p>
Findings	<p>Upon verification, the Monitoring Report for the 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan indicates a successful implementation of renewable energy generation. The project has resulted in significant greenhouse gas (GHG) emission reductions totalling 42,099 tCO₂eq over the monitoring period from 16/06/2013 to 31/12/2023. The wind power project, consisting of 4 Wind Turbine Generators (WTGs), has been operational and contributing to the displacement of fossil fuel-based power generation in the grid. No negative environmental impacts have been reported, and the project supports sustainable development goals by providing clean energy and economic benefits to the region. Overall, the</p>



	project demonstrates compliance with the Universal Carbon Registry's standards for carbon offset units.
Conclusion	<p>In conclusion, the 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan has been successfully implemented and is operational. The project has resulted in significant greenhouse gas (GHG) emission reductions totalling 42,099 tCO₂eq over the monitoring period from 16 June 2013 to 31 December 2023. The electricity generated by the project has been fed into the Indian grid, displacing an equivalent amount of power that would have otherwise been produced by fossil fuel-based power plants. The project supports clean energy generation and contributes to climate change mitigation efforts, aligning with sustainable development goals. No negative environmental impacts have been reported, and the project activity complies with the applied methodologies and standardized baselines.</p>



D.4. Start date, crediting period and duration

<p>Means of Project Verification</p>	<p>Commissioning Date Verification: The commissioning date is verified through commissioning certificates of the WTG's, which is recorded as 16/06/2003 for J-70 & J-71 whereas for J-227 & J-228 is recorded as 30/09/2004.</p> <p>Crediting Period Verification: The crediting period corresponds to the monitoring period covered in the monitoring report, which spans from 16/06/2013 to 31/12/2023, inclusive of both dates.</p> <p>Duration of Crediting Period Verification: The duration of the crediting period is 10 years, 6 months, and 15 days, as stated in the monitoring report. Verification is done by cross-referencing the dates provided in the report with the actual operational dates of the project.</p> <p>The verification process ensures that the project's start date, crediting period, and duration align with the documented evidence and comply with the relevant standards and methodologies.</p>
<p>Findings</p>	<p>Upon verification, it was found that the carbon offset project's crediting period began on June 16, 2013, and lasted 10 years, 6 months, and 15 days, coinciding precisely with its first monitoring period. Previously, the UCR project activity was registered as a CDM project titled "5 MW wind power project at Baramsar and Soda Mada, District Jaisalmer, Rajasthan, India" (CDM Project ID: 0267), with a CDM registration date of April 14, 2006, and a fixed crediting period from June 16, 2003, to June 15, 2013, during which CERs were issued. The project is now seeking CoUs under the UCR CoU Standard/Program for the period from June 16, 2013, to December 31, 2023, ensuring no double counting of carbon credits for this vintage period. The monitoring report, completed on June 25, 2024, confirms the project's adherence to carbon credit standards and accurately accounts for emission reductions,</p>



	<p>establishing a clear timeline for crediting, monitoring, and reporting, which is essential for maintaining compliance with carbon offset regulations and ensuring the credibility of emission reduction claims.</p>
Conclusion	<p>In conclusion, the verification process confirms that the carbon offset project's crediting period, beginning on June 16, 2013, and spanning over a decade, aligns with its initial monitoring period. The project, previously registered as a CDM project, is now transitioning to seek CoUs under the UCR CoU Standard/Program for the subsequent period, effectively preventing any double counting of carbon credits. The monitoring report completed on June 25, 2024, validates the project's compliance with carbon credit standards and its accurate accounting of emission reductions, thereby maintaining regulatory adherence and upholding the credibility of its emission reduction claims.</p>



D.5. Positive Environmental impacts

<p>Means of Project Verification</p>	<p>Emission Reductions: The project achieved a total reduction of 42,099 tCO₂eq over the monitoring period from 2013 to 2023.</p> <p>Clean Energy Generation: The project generated 46,783 MWh of electricity from wind energy, displacing fossil fuel-based power generation.</p> <p>No Negative Environmental Impact: The project did not generate air pollution, wind pollution, or solid waste, contributing positively to the environment.</p> <p>Compliance with Standards: The project adhered to the AMS-I.D methodology for grid-connected renewable electricity generation, ensuring standardized and verified environmental benefits.</p>
<p>Findings</p>	<p>Upon verification, the PCN & MR outlines the positive environmental impacts of a 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan. The project contributes to climate change mitigation by generating clean, renewable energy and reducing greenhouse gas emissions by 42,099 tCO₂eq over the monitoring period. It displaces the equivalent amount of power that would have been produced by fossil fuel-based power plants, thus reducing the reliance on non-renewable energy sources. Additionally, the wind power project operates without emitting pollutants or solid waste, further contributing to environmental well-being. Overall, the project supports sustainable development by promoting the use of renewable energy and technological advancement in the region.</p>
<p>Conclusion</p>	<p>In conclusion, the PCN & MR outlines the positive environmental impacts of a 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in</p>



	<p>Rajasthan. The project contributes to climate change mitigation by generating clean, renewable energy and reducing greenhouse gas emissions by 42,099 tCO₂eq over the monitoring period. It displaces electricity that would have been produced by fossil fuel-based power plants, thereby reducing reliance on non-renewable energy sources. Additionally, the wind power project does not produce air pollution, wind pollution, or solid waste, further contributing to environmental well-being. Overall, the project supports sustainable development by promoting renewable energy and technological advancement in the region.</p>
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D.6. Project Owner- Identification and communication

Means of Project Verification	<p>Official Documents: Verify the project owner’s identity through PCN & MR, commissioning certificates, JMR’s, Invoices, PPA and corporate addresses.</p> <p>Contact Information: Confirm the contact details provided, including phone numbers and email addresses, by reaching out directly.</p> <p>Third-Party Databases: Cross-check the project owner’s information with third-party databases and registries to ensure accuracy and legitimacy.</p> <p>Off-Site Visits: Conduct remote off-site visits to verify the presence and operations of the project owner at the stated locations.</p> <p>These steps help ensure the authenticity and reliability of the project owner in carbon credit verification processes.</p>
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Findings	<p>Upon verification, the PCN & MR provides detailed information about the Project Owner for the 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan. The responsible contact person is identified as Mr. Girdhari Bargujar, with a contact number and email provided for communication. The corporate address for TCIL is also listed, indicating their location in Gurugram, Haryana, India. As a third-party verifier, the findings would confirm that the Project Owner's identification and communication channels are clearly established and accessible, ensuring transparency and accountability for the carbon credit verification process.</p>
Conclusion	<p>In conclusion, the verification process confirms that the Project Owner for the 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan is clearly identified, with Mr. Girdhari Bargujar as the responsible contact person. Detailed contact information and the corporate address in Gurugram, Haryana, are provided, ensuring that communication channels are transparent and accessible, thereby supporting accountability in the carbon credit verification process.</p> <p>verification.</p>



D.7. Positive Social Impact

<p>Means of Project Verification</p>	<p>Employment Generation: Assessing the direct and indirect job creation due to the project.</p> <p>Infrastructure Development: Evaluating improvements in local infrastructure, such as roads.</p> <p>Renewable Energy Promotion: Verifying the increase in renewable energy capacity and its contribution to the energy mix.</p> <p>Technological Advancement: Confirming the introduction and use of advanced wind turbine technology in the region.</p> <p>These aspects collectively contribute to the project’s positive social impact, aligning with sustainable development goals. Verification would involve a thorough review of project documentation, site visits, and stakeholder interviews to substantiate these claims.</p>
<p>Findings</p>	<p>Upon verification, it was found that the document verification indicates that the 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan has made significant positive social impacts. These include the creation of direct and indirect employment opportunities, particularly in manufacturing and maintenance related to the Wind Turbine Generator (WTG), stimulation of infrastructure development such as improved road networks, and contributions to the growth of renewable energy infrastructure. Additionally, the project has led to economic upliftment through increased local land prices and new economic opportunities for local industries and businesses, collectively enhancing the social well-being of the region.</p>
<p>Conclusion</p>	<p>In conclusion, the PCN & MR outlines the positive</p>



social impact of the 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan. It highlights the project's contribution to generating direct and indirect employment, improving local infrastructure, and promoting renewable energy infrastructure in the region. The project utilizes wind energy, a clean source, leading to no air pollution or solid waste, thereby contributing to environmental well-being. Economically, it supports conservation of natural resources and provides new opportunities for local industries. Technologically, it introduces advanced wind turbine generators to the area, promoting small-scale industries to reduce dependence on carbon-intensive grid supply. Overall, the project significantly contributes to the economic, social, environmental, and technological well-being of the region.



Sustainable development aspects (if any)

<p>Means of Project Verification</p>	<p>Social Well-being: Verification includes assessing employment benefits, infrastructure development, and renewable infrastructure contributions.</p> <p>Environmental Well-being: Ensures the project uses clean energy sources and contributes to GHG emission reductions without negative environmental impacts.</p> <p>Economic Well-being: Evaluates the project's contribution to economic sustainability, decentralization of economic power, and local economic development.</p> <p>Technological Well-being: Checks the promotion and implementation of advanced wind turbine technology in the region.</p> <p>These aspects ensure the project aligns with sustainable development goals and has a positive impact on society, environment, economy, and technology.</p>
<p>Findings</p>	<p>Upon verification, the PCN & MR outlines the sustainable development aspects of a 5 MW Wind Power Project by Transport Corporation of India Limited (TCIL), in Rajasthan, detailing its social, environmental, economic, and technological benefits. The project generates employment, improves infrastructure, and contributes to renewable infrastructure development. It utilizes wind energy to avoid air pollution and GHG emissions, promotes economic sustainability by conserving natural resources and fostering local economic development, and introduces advanced wind turbine technology to enhance energy availability and power quality. These benefits align with the Ministry of Environment, Forests & Climate Change's indicators for sustainable development, demonstrating a positive impact on the local community and</p>



	environment while contributing to climate change mitigation efforts.
Conclusion	In conclusion, the document highlights the sustainable development aspects of a 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Rajasthan, showcasing its contributions to social, environmental, economic, and technological well-being. The project generates employment and improves infrastructure, thus supporting local development, while its use of wind energy avoids air pollution and GHG emissions, enhancing environmental health. Economically, it promotes sustainability by conserving natural resources and diversifying the energy supply. Technologically, it advances the region by introducing modern wind turbine generators. Overall, the project positively impacts sustainable development across various aspects without harming the environment.

Section E. Internal quality control

During the verification of this project, internal quality control measures were meticulously implemented throughout the verification process to guarantee its accuracy and reliability. This involved regular internal reviews of verification procedures, documentation, and reports to promptly address any errors or discrepancies. Verification staff received ongoing training to maintain their proficiency in conducting verifications efficiently. Standard Operating Procedures (SOPs) were established to provide clear guidance on data collection, analysis, and reporting, ensuring consistency and adherence to best practices. Robust documentation management practices were adopted to maintain transparent records of verification activities, including data sources and methodologies. Peer reviews and discussions among verification team members were facilitated to validate findings and ensure agreement on conclusions. Continuous improvement processes were instituted to assess verification practices, identify areas for improvement, and enhance overall performance over time."

Section F. Project Verification opinion

The GHG emission reductions were calculated based on UCR Protocols which draws reference from, CDM UNFCCC Methodology, AMS-I.D.: “Grid connected renewable electricity generation”, version 18 and Standardized Methodology is Baseline: UCR Protocol Emission Factor for 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Rajasthan, India. The verification was done remotely by way of video



calls/ verification, phone calls and submission of documents for verification through emails.

SQAC is able to certify that the Emission reductions from 5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Rajasthan, India, (UCR ID – **439**) for the period **16/06/2013 to 31/12/2023** amounts to **42,099 CoUs (42,099 tCO₂eq)**

Appendix 1. Abbreviations

Abbreviations	Full texts
UCR	Universal Carbon Registry
PP/PO	Project Proponent / Project Owner
PA	Project Aggregator
PPA	Power Purchase Agreement
ER	Emission Reduction
COUs	Carbon offset Units.
tCO ₂ e	Tons of Carbon Dioxide Equivalent
CDM	Clean Development Mechanism
SDG	Sustainable Development Goal
CAR	Corrective Action Request
CR	Clarification Request
FAR	Forward Action Request
GHG	Green House Gas
MR	Monitoring report
PCN	Project Concept Note
VR	Verification Report
VS	Verification Statement
COD	Commercial Operation Date

Appendix 2. Competence of team members and technical reviewers

Sr. No.	Role	Name	Education Qualification	Related Experience
1.	Team Leader / Lead Verifier / Validator	Santosh Nair	BE (Chemical) Lead Auditor in ISO 9001,14001, 45001,13485,223 01,22000,27001,1 4064-1,2,3	Carbon Verifier for all major sectors such as Wind, Solar, Hydro, Biomass, Biogas, Waste Heat Recovery, Biofuel, etc.
2.	Technical reviewer	Praful Shinganapurkar	BE (Mechanical) Certified Energy Auditor	Carbon Verifier for all major sectors such as Wind, Solar, Hydro,



			Lead Auditor in ISO 9001, 14001 & 45001	Biomass, Biogas, Waste Heat Recovery, Biofuel, etc.
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Appendix 3. Document reviewed or referenced

Sr. No.	Author	Title	Provider/Originator
1	M/s. Transport Corporation of India Limited (TCIL).	Project Concept Note (PCN)	M/s. Transport Corporation of India Limited (TCIL).
2	M/s. Transport Corporation of India Limited (TCIL).	Monitoring Report (MR)	M/s. Transport Corporation of India Limited (TCIL).
3	M/s. Transport Corporation of India Limited (TCIL).	Emission Reduction Calculation Sheet	M/s. Transport Corporation of India Limited (TCIL).
4	M/s. Transport Corporation of India Ltd. & Rajasthan Rajya Vidyut Prasaran Nigam Ltd.	Power Purchase Agreement (For 2.50 MW Wind Power Plant at Baramsar, District Jaisalmer)	M/s. Transport Corporation of India Limited (TCIL).
5	M/s. Transport Corporation of India Limited (TCIL). & Suzlon Energy Limited.	Power Purchase Agreement (For 2.50 MW Wind Power Plant at SODA-MADA District Jaisalmer)	M/s. Transport Corporation of India Limited (TCIL).
6	Darsh Calibrations Pvt Ltd. & C & C and I Calibrations Pvt Ltd.	Meter Calibration	M/s. Transport Corporation of India Limited (TCIL).
7	Office of the Executive Engineer(O&M), J.V.V.N.L, Jaisalmer	Commissioning Certificate	M/s. Transport Corporation of India Limited (TCIL).
8	Office of the Executive Engineer (TCCIV) R.R.V.P.N.L., Barmer	Commissioning Certificate	M/s. Transport Corporation of India Limited (TCIL).
9	M/s. Suzlon Energy Ltd.	Joint Meter Readings	M/s. Transport Corporation of India Limited (TCIL).
10	M/s. Transport Corporation of India Limited (TCIL).	Invoices	M/s. Transport Corporation of India Limited (TCIL).



Appendix 4. Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

CL ID	00	Section no.		Date: DD/MM/YYYY
Description of CL				
<i>n/a</i>				
Project Owner's response				Date: DD/MM/YYYY
<i>n/a</i>				
Documentation provided by Project Owner				
<i>n/a</i>				
UCR Project Verifier assessment				Date: DD/MM/YYYY
<i>n/a</i>				

Table 2. CARs from this Project Verification

CAR ID	00	Section no.		Date: DD/MM/YYYY
Description of CAR				
<i>n/a</i>				
Project Owner's response				Date: DD/MM/YYYY
<i>n/a</i>				
Documentation provided by Project Owner				
<i>n/a</i>				
UCR Project Verifier assessment				Date: DD/MM/YYYY
<i>n/a</i>				

Table 3. FARs from this Project Verification

FAR ID	00	Section no.		Date: DD/MM/YYYY
Description of FAR				
<i>n/a</i>				
Project Owner's response				Date: DD/MM/YYYY
<i>n/a</i>				
Documentation provided by Project Owner				
<i>n/a</i>				
UCR Project Verifier assessment				Date: DD/MM/YYYY
<i>n/a</i>				



OFFICE OF THE EXECUTIVE ENGINEER (TCC IV) R.R.V.P.N. L. BARMER.

REF NO: - RRVPNL/XEN - III/TCC IV/BMR/D. 606 DATE: 4/10/14

WIND PROJECT – COMMISSIONING CERTIFICATE

To,
M/S. Transport Corporation Of India Limited,
TCI House
69 Industrial Area, Sector 32,
Gurgaon (Haryana)
122001

Sub: Commissioning Certificate

This is to certify that M/S Transport Corporation Of India Limited have successfully commissioned 2 Nos. X 1.25 MW Suzlon make Wind Electric Generator on 30th Sept.2004, at Village Soda-Mada, Dist. Jaisalmer, Rajasthan.

Brief details of the machineries commissioned:

- 1 Rating of Wind Electric Generators – 1.25 MW
- 2 Quantity - 1 No.
- 3 Location – J-227 and J 228
- 4 Date of Commissioning – 30th Sept. 2004

We further state that this Wind Electric Generator is interconnected to 132 KV Jaisalmer GSS through 132 KV Mada Substation via Amarsagar 132 KV Bay.

Executive Engineer - III (TCC-IV)
 R.R.V.P.N.L. BARMER
 III (TCC-IV)
 R.V.P.N. BARMER

OFFICE OF THE EXECUTIVE ENGINEER (O&M), J.V.V.N.L., JAISALMER.
Opp. Post Office, Old Power House, Jaisalmer ☎ - 0280-252133

REF NO: -JVNL/XEN/O&M/JSM/S: TECH/F: D.374 DATE: 16/06/2003

WIND PROJECT – COMMISSIONING CERTIFICATE

To,
M/S. TRANSPORT CORPORATION OF INDIA LTD.
TCI House
69, Industrial Area, Sector 32
Gurgaon (Haryana) – 122 001

Sub: Commissioning Certificate

This is to certify that M/S TRANSPORT CORPORATION OF INDIA LTD. has successfully Commissioned 2 Nos. X 1.25 MW Suzlon make Wind Electric Generators on 16th June 2003 at Baramsar Village, Jaisalmer District Rajasthan.

Brief details of the machineries commissioned:

1. Rating of Wind Electric Generators – 1.25 MW each (SUZLON MAKE)
2. Quantity - 2 No.
3. Location – J-70 & J-71
4. Date of Commissioning – 16th June 2003

We further state that all these Wind Electric Generators are connected to 33KV Deva Feeder near Village Baramsar Dist. Jaisalmer (Rajasthan).

Executive Engineer (O&M)
 J.V.V.N.L. JAISALMER
 Authorised Signatory
 Executive Engineer (O&M)
 J V V N L, Jaisalmer

DARSH CALIBRATIONS PRIVATE LIMITED
B-154, 1st Extension Kamlu Nehru Nagar,
Jodhpur-342008 (Raj.) India

CC-2070

CALIBRATION CERTIFICATE

Page 1 Of 4

Certificate No.: DCPL/CAL/23-24/401		ULR No.CC20702300000401F	
1 Name and address of customer	M/s Suzlon Energy Ltd. 220KV GSS Amarsagar, RRVPNL District-Jaisalmer, Rajasthan.		
2 Reference	Customer Reference Number W.O. No.: 450092668, Date:- 15-03-2023 Date of receipt of UUC 20/04/2023 Condition of UUC Satisfactory		
3 Location of calibration	220KV GSS Amarsagar, (RRVPNL)		
4 Calibration Certificate Details	Date of Issue 27/04/2023 Date of Calibration 20/04/2023 Due Date of calibration(As requested by the customer) 19/04/2024		
5 Description of equipment under calibration	Name 3 PHASE ENERGY METER Sr. No. RB90172 (Backup Meter) (GSS END) (TCI) Make SECURE Type 3phase 4wire Model Premier 300 Voltage 3x63.5V Current 1b=5A,Imax=10A Class 0.2s Meter constant 16000 Pulses/Unit/KWh/KVAh Frequency 50Hz ± 1Hz		
6 Environmental Conditions of Measurements :	Average Temperature 31.4°C Humidity 53±4%		
7 Witnessed by:-	Mr. Kailash Kumar XEn, M&P, JVVNL, Jaisalmer Mr. Pawan Singh M/s Suzlon Global Service Limited, Jaisalmer.		

NOTE:-

1. This calibration certificate refers only to the particular item submitted for calibration.
2. This certificate shall not be reproduced except in full unless written permission for the publication of an abstract has been obtained from Darsh Calibrations Pvt. Ltd. Jodhpur.
3. The calibration results reported in this certificate are valid at the time of an under stated condition of measurement.
4. This is computer generated certificate and digitally signed by an authorised signatory and does not require any physical signature.

Authorized Signatory: Rajendra Nath Vyas
Designation : Chief Manager
Calibrated By: Sharad Bohra

Rajendra Nath Vyas
 Chief Manager
 Darsh Calibrations Pvt. Ltd.

DARSH CALIBRATIONS PRIVATE LIMITED
B-154, 1st Extension Kamlu Nehru Nagar,
Jodhpur-342008 (Raj.) India

CC-2070

CALIBRATION CERTIFICATE

Page 1 Of 4

Certificate No.: DCPL/CAL/23-24/400		ULR No.CC20702300000400F	
1 Name and address of customer	M/s Suzlon Energy Ltd. 220KV GSS Amarsagar, RRVPNL District-Jaisalmer, Rajasthan.		
2 Reference	Customer Reference Number W.O. No.: 450092668, Date:- 15-03-2023 Date of receipt of UUC 20/04/2023 Condition of UUC Satisfactory		
3 Location of calibration	220KV GSS Amarsagar, (RRVPNL)		
4 Calibration Certificate Details	Date of Issue 27/04/2023 Date of Calibration 20/04/2023 Due Date of calibration(As requested by the customer) 19/04/2024		
5 Description of equipment under calibration	Name 3 PHASE ENERGY METER Sr. No. RB90171 (Main Meter) (GSS END) (TCI) Make SECURE Type 3phase 4wire Model Premier 300 Voltage 3x63.5V Current 1b=5A,Imax=10A Class 0.2s Meter constant 16000 Pulses/Unit/KWh/KVAh Frequency 50Hz ± 1Hz		
6 Environmental Conditions of Measurements :	Average Temperature 31.4°C Humidity 53±4%		
7 Witnessed by:-	Mr. Kailash Kumar XEn, M&P, JVVNL, Jaisalmer Mr. Pawan Singh M/s Suzlon Global Service Limited, Jaisalmer.		

NOTE:-

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3. The calibration results reported in this certificate are valid at the time of an under stated condition of measurement.
4. This is computer generated certificate and digitally signed by an authorised signatory and does not require any physical signature.

Authorized Signatory: Rajendra Nath Vyas
Designation : Chief Manager
Calibrated By: Sharad Bohra

Rajendra Nath Vyas
 Chief Manager
 Darsh Calibrations Pvt. Ltd.



C and I Calibrations Pvt. Ltd.

J-448, Sitapura Industrial Area, Jaipur-302022 (Rajasthan) India
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C-0768 | C-0769 | C-1047 | C-0981

CALIBRATION CERTIFICATE

C&I/FORM/11

Certificate No.: C&I/CAL/S/16-07/116		PAGE 1 OF 5	
Name and address of customer		M/S SUZLON ENERGY LTD. Jaisalmer, Rajasthan	
Reference		Customer Reference Number :- Letter No. 15.07.2016 Date of receipt of UUC :- July 22, 2016 Condition of UUC :- Physically O. K.	
Location of calibration		At Site (220KV GSS RRVPNL Amarsagar, Jaisalmer)	
Calibration Certificate Details		Date of issue :- July 30, 2016 Date of calibration :- July 22, 2016 Suggested Due Date :- July 22, 2017	
Description of unit under calibration		Name :- 3 Ph Static energy meter Sr.No. :- RJ801113 Make :- Secure Meters Ltd. Model :- Premier Range & Accuracy :- Type: E3M025(3Ph,4wire) Voltage: 3x63.5V Current: Ib: 5A, Imax: 10A Class:0.2s For Active Meter Constant: 160 Pulse/Unit(kWh/kVarh/kVah/kVa/kW) Voltage Ratio:- 11KV/V ₃ /110V/V ₃ Frequency: 50 Hz SFL-4 (MAIN TCI)	
Environmental conditions of measurements:-		Temperature :- 25 ± 4° C Humidity :- < 70%	
Witnessed by		Name :- 1. Mr. S.P. Mathur Asst. Engrg. (M&P), JDVNL, Jaisalmer 2. Mr. C.R. Choudhary AEN Protection-RRVPNL-JSM 3. Mr. Manoj Kumar Yadav AEN (RRVPNL 220 kv GSS, Amarsagar) 4. Mr. Bihari Ram Bhanubansia Dept. Manger, SUZLON ENERGY LTD. (Jaisalmer)	
		Signature	

NOTE:
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3. The calibration results reported in this certificate are valid at the time of the calibration and under stated condition of measurement.

CALIBRATED / CHECKED BY: *[Signature]* AUTHORIZED SIGNATORY: *[Signature]*



C and I Calibrations Pvt. Ltd.

J-448, Sitapura Industrial Area, Jaipur-302022 (Rajasthan) India
Phone : 0141-2770405, Fax : 0141-2770405
e-mail : ashokpatnijain@gmail.com, marketing@cicpl.in, web: www.cicpl.in



C-0768 | C-0769

CALIBRATION CERTIFICATE

C&I/FORM/11

Certificate No.: C&I/CAL/S/15-01/171		PAGE 1 OF 5	
Name and address of customer		M/S SUZLON ENERGY LTD. Jaisalmer, Rajasthan Location:- 220KV, Transformer#1, MAIN 33/220KV, GSS, MADA	
Reference		Customer Reference Number :- W.O no. 4500413250 Date of receipt of UUC :- January 16, 2015 Condition of UUC :- Physically O. K.	
Location of calibration		At Site	
Calibration Certificate Details		Date of issue :- January 17, 2015 Date of calibration :- January 16, 2015 Suggested Due Date :- January 16, 2016	
Description of unit under calibration		Name :- 3 Ph Energy Meter Sr.No. :- RJ800316 Make :- Secure meters Ltd. Model :- Premier Range & Accuracy :- Type:E3M021, 3Ph,4 wire Voltage: 3x63.5Vp-n (3 phase 4 wire) Current: Ib: 1A, Imax: 2A Class:0.2s Voltage Ratio:-/110V/V ₃ Current Ratio:-/1A Frequency: 50 Hz Meter Constant: 160 Pulses/Unit(Wh,VAh)	
Environmental conditions of measurements:-		Temperature :- 25 ± 4° C Humidity :- < 70%	
Witnessed by		Name :- 1. Mr. S.P. Mathur Assistant Engineer(M&P), JDVNL, Jaisalmer 2. Mr. C.R. Choudhary AEN Protection-RRVPNL-JSM 3. Mr. Rajendra Soni Assistant Engineer(ST), AVNL, Makrana 4. Mr. Bihari Ram Bhanubansia Dept. Manger, SUZLON ENERGY LTD. (Jaisalmer)	
		Signature	

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3. The calibration results reported in this certificate are valid at the time of the calibration and under stated condition of measurement.

CALIBRATED BY: *[Signature]* AUTHORIZED SIGNATORY: *[Signature]*



C and I Calibrations Pvt. Ltd.

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Phone : 0141-2770405, Fax : 0141-2770405
e-mail : ashokpatnijain@gmail.com, marketing@cicpl.in, web: www.cicpl.in



C-0768 | C-0769

CALIBRATION CERTIFICATE

C&I/FORM/11

Certificate No.: C&I/CAL/S/15-01/172		PAGE 1 OF 5	
Name and address of customer		M/S SUZLON ENERGY LTD. Jaisalmer, Rajasthan Location:- 220KV, Transformer#1, BACK-UP 33/220KV, GSS, MADA	
Reference		Customer Reference Number :- W.O no. 4500413250 Date of receipt of UUC :- January 16, 2015 Condition of UUC :- Physically O. K.	
Location of calibration		At Site	
Calibration Certificate Details		Date of issue :- January 17, 2015 Date of calibration :- January 16, 2015 Suggested Due Date :- January 16, 2016	
Description of unit under calibration		Name :- 3 Ph Energy Meter Sr.No. :- RJ800317 Make :- Secure meters Ltd. Model :- Premier Range & Accuracy :- Type:E3M021, 3Ph,4 wire Voltage: 3x63.5Vp-n (3 phase 4 wire) Current: Ib: 1A, Imax: 2A Class:0.2s Voltage Ratio:-/110V/V ₃ Current Ratio:-/1A Frequency: 50 Hz Meter Constant: 160 Pulses/Unit(Wh,VAh)	
Environmental conditions of measurements:-		Temperature :- 25 ± 4° C Humidity :- < 70%	
Witnessed by		Name :- 1. Mr. S.P. Mathur Assistant Engineer(M&P), JDVNL, Jaisalmer 2. Mr. C.R. Choudhary AEN Protection-RRVPNL-JSM 3. Mr. Rajendra Soni Assistant Engineer(ST), AVNL, Makrana 4. Mr. Bihari Ram Bhanubansia Dept. Manger, SUZLON ENERGY LTD. (Jaisalmer)	
		Signature	

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3. The calibration results reported in this certificate are valid at the time of the calibration and under stated condition of measurement.

CALIBRATED BY: *[Signature]* AUTHORIZED SIGNATORY: *[Signature]*



