



SQAC CERTIFICATION PVT.LTD.

Project Verification Report Form (VR)

BASIC INFORMATION

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| 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 | 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL) at Maharashtra. |
| Project reference no. | UCR ID: 440 |
| 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 |

Accredited by 5 Jupiter House, Callera Park, Aldermaston, Reading Berkshire RG7 8NN, United Kingdom (UK).

India Office: Off. No. 4, Fifth Floor, Buildmore Business Park, New Canca Bypass Road, Khorlim, Mapusa, Goa – 403 507



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| | Standardized Methodology: Baseline: UCR Protocol Emission Factor |
| GHG Sectoral scopes linked to the applied methodologies | 01 Energy industries Renewable/Non-Renewable Sources) |
| Project Verification Criteria: Mandatory requirements to be assessed | <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) |
| Project Verification Criteria: Optional requirements to be assessed | <input checked="" type="checkbox"/> Environmental Safeguards Standard and do-no-harm criteria <input checked="" type="checkbox"/> Social Safeguards Standard do-no-harm criteria |
| Project Verifier's Confirmation: The <i>UCR Project Verifier</i> has verified the UCR project activity and therefore confirms the following: | <p>The UCR Project Verifier SQAC Certification Pvt. Ltd., certifies the following with respect to the UCR Project Activity 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Maharashtra.</p> <input checked="" type="checkbox"/> The Project Owner has correctly described the Project Activity in the |



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| | <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 90,165 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: 440 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 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Maharashtra, India”, UCR approved project ID:440, to establish number of CoUs generated by project over the crediting period from **01/01/2013 - 31/12/2023** (11 years)

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 from 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Maharashtra, India, (UCR ID – **440**) for the period **01/01/2013 to 31/12/2023** amounts to **90,165 CoUs (90,165 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 | G367 & G368, Birenwadi | 13/07/2024 |
| 2. | Supporting documents provided before, during, after the verification. | Birenwadi | 13/07/2024 |



C.3. Interviews

| Sr. No. | Interview | | | Date | Subject |
|---------|-----------------------|--------------------|---|------------|---|
| | Name | Designation | Affiliation | | |
| 1 | Mr. Mohseen Mujawar | Site in Charge | 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 5 Wind Turbine generators (WTGs) i.e., G367, G368, G32, G39 & N70 installed of total capacity of 6.5 MW, 2 WTG's have been selected for complete site monitoring through video, which is G367, G368

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 |



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|---|-----|-----|-----|
| - 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

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| Means of Project Verification | <p>Project Details: Verification of the project's title, location, capacity, and technology used.</p> <p>Methodology: Ensuring the project follows the AMS-I.D methodology for grid-connected renewable electricity generation.</p> <p>Emission Reductions: Confirming the reported greenhouse gas (GHG) emission reductions against the Universal Carbon Registry (UCR) standards.</p> <p>Crediting Period: Checking the stated crediting period for consistency with the project's operation dates.</p> <p>These elements are crucial for determining the project's compliance with carbon credit standards and its eligibility for issuing Carbon Offset Units (CoUs). The verification process would involve a thorough review of the project's documentation, site visits, and cross-verification with UCR guidelines.</p> |
| Findings | <p>Upon verification, based on the document provided, the findings for identification and eligibility of the project type are as follows:</p> <p>Project Type: The project is identified as a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, which falls under the category of renewable energy projects.</p> |



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| | <p>Eligibility Criteria: The project meets the eligibility criteria for carbon credit issuance, as it is a grid-connected renewable electricity generation project, which is categorized under AMS-I.D version 18.</p> <p>Crediting Period: The project has a crediting period from 01.01.2013 to 31.12.2023, during which it is eligible for carbon credit issuance.</p> <p>GHG Emission Reductions: The project has achieved significant greenhouse gas (GHG) emission reductions totalling 90,165 tCO₂eq over the monitoring period, contributing to climate change mitigation efforts.</p> <p>These findings suggest that the project is well-aligned with the standards for carbon credit verification and issuance.</p> |
| Conclusion | <p>In conclusion, the document indicates that the project is a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, which qualifies as a renewable energy project under the sectoral scope of "01 Energy industries (Renewable/Non-Renewable Sources)." The applied methodology for carbon credit verification is AMS-I.D: "Grid connected renewable electricity generation," version 18. The project has successfully displaced an equivalent amount of power from the grid that would have been generated by fossil fuel-based power plants, resulting in a total of 90,165 tCO₂eq emission reductions over the monitoring period from 2013 to 2023. Therefore, the project is identified as eligible for carbon credits under the Universal Carbon Registry (UCR) due to its contribution to GHG emission reductions and adherence to the applicable methodology.</p> |



D.2. General Description of Project Activity

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| <p>Means of Project Verification</p> | <p>Verification Process: The project activity, a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), will be verified through the Universal Carbon Registry (UCR) as a voluntary carbon offset unit (CoU) project.</p> <p>Monitoring Report: A comprehensive monitoring report is prepared, detailing the project’s performance, GHG emission reductions, and adherence to applied methodologies and standardized baselines.</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 and transparency of data.</p> <p>Meter Calibration: The energy meters used for recording electricity fed to the state utility grid are calibrated and inspected periodically according to state electricity board specifications to ensure accuracy.</p> <p>These components ensure that the project’s GHG emission reductions are accurately measured and reported, adhering to the standards set by the UCR.</p> |
| <p>Findings</p> | <p>Upon verification, the document describes the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, India. The project consists of 5 Wind Turbine Generators (WTGs) with a total capacity of 6.5 MW, aimed at supplying electricity to the regional grid. The generated electricity displaces the equivalent amount of power that would have been produced by fossil fuel-based power plants, contributing to climate change mitigation by reducing greenhouse gas emissions. The project is operational and applies for voluntary carbon offset units under the Universal Carbon Registry.</p> |



Conclusion

In conclusion, the General Description of Project Activity for the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra highlights the project's contribution to climate change mitigation by generating renewable energy and reducing greenhouse gas emissions. The project, operational since 2005, consists of 5 Wind Turbine Generators (WTGs) with a total capacity of 6.5 MW, displacing the need for fossil fuel-based power generation. By exporting electricity to the regional grid, the project has achieved a total of 90,165 tCO₂eq emission reductions over an 11-year period. It is emphasized that the project supports sustainable development by providing clean energy, creating jobs, and enhancing local economic growth without negative environmental impacts. The conclusion would affirm the project's effectiveness in contributing to renewable energy goals and reducing carbon emissions.



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

D.3.1 Application of methodology and standardized baselines

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| <p>Means of Project Verification</p> | <p>Monitoring Plan: The project activity involves generating electricity from wind, with Wind Turbine Generators (WTGs) converting 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 (MSEDCL).</p> <p>Data Management: Quality Assurance and Quality Control (QA&QC) measures are established to control and manage data reading, recording, auditing, and archiving, ensuring reliability and transparency.</p> <p>Calibration and Inspection: Metering devices are calibrated and inspected periodically according to state electricity board specifications to ensure accuracy in readings.</p> <p>Joint Measurement: Monthly joint measurement of electricity fed to the state utility grid is carried out in the presence of both the developer's representative and officials of the state power utility, with both parties signing the recorded reading.</p> <p>These verification means ensure that the project's electricity generation and emission reductions are accurately monitored and reported.</p> |
| <p>Findings</p> | <p>Upon verification, the document outlines the application of the AMS-I.D methodology, version 18, for a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra. It confirms the project's eligibility under small-scale CDM project activities, with a total installed capacity of 6.5 MW qualifying it as a Greenfield plant. The baseline scenario is established as the electricity that would have been generated by grid-connected fossil fuel power plants in the absence of the project.</p> |



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| | <p>The document details the project's contribution to GHG emission reductions, with a total of 90,165 tCO₂eq over the monitoring period from 2013 to 2023. No leakage emissions are reported, and the project emissions are considered zero, as it's a renewable energy project activity</p> |
| Conclusion | <p>In conclusion, based on the document provided, the conclusion for the Application of Methodology and Standardized Baselines is that the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra is in compliance with the AMS-I.D methodology, version 18, for grid-connected renewable electricity generation. The project activity qualifies as a small-scale project, generating electricity from wind energy and supplying it to the Indian grid system. The project has successfully displaced an equivalent amount of electricity that would have been generated by fossil fuel-based power plants, resulting in significant greenhouse gas (GHG) emission reductions. Over the monitoring period from 2013 to 2023, the project achieved a total of 90,165 tCO₂eq in emission reductions, contributing to climate change mitigation efforts. No leakage emissions were reported, and the project did not cause double counting of carbon credits.</p> |



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

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| <p>Means of Project Verification</p> | <p>Applied Methodology: The project uses AMS-I.D: “Grid connected renewable electricity generation,” version 18, which falls under Sectoral Scope 01 for Energy industries (Renewable/Non-Renewable Sources).</p> <p>Project Verification: The project’s electricity generation data is monitored continuously,</p> <p>with monthly joint measurements carried out by the developer’s representative and officials from the state power utility, MSEDCL.</p> <p>Quality Assurance: Quality Assurance and Quality Control (QA&QC) measures are in place to manage data reading, recording, auditing, and archiving, ensuring reliable and transparent data.</p> <p>Calibration Certificates: Calibration certificates for energy meters are provided, ensuring the accuracy of the electricity fed to the state utility grid as per national or international standards.</p> <p>These points ensure that the project adheres to the specified methodology and provides a clear and verifiable means of monitoring and reporting greenhouse gas emission reductions.</p> |
| <p>Findings</p> | <p>Upon verification, based on the document provided, the findings for clarification on the applicability of methodology, tool, and/or standardized baseline are as follows:</p> <p>Methodology: The project employs AMS-I.D: “Grid connected renewable electricity generation”, version 18, which is suitable for small-scale renewable energy projects like the 6.5 MW Wind Power Project by TCIL.</p> <p>Tool: The project does not require additional tools for</p> |



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| | <p>monitoring as it involves direct electricity generation from wind turbines, with no other input fuels.</p> <p>Standardized Baseline: The UCR Standardized Baseline Emission Factor of 0.9 tCO₂/MWh has been applied conservatively for the period 2013-2023, aligning with the project’s crediting period.</p> <p>Applicability: The project meets the criteria for a small-scale CDM project activity, with a total installed capacity of 6.5 MW, well below the 15 MW limit for renewable components.</p> <p>These findings ensure the project’s compliance with the relevant standards and methodologies for carbon credit issuance.</p> |
| <p>Conclusion</p> | <p>In conclusion, the document indicates that the project activity involves the generation of grid-connected electricity from a new wind power-based project, which qualifies for a small-scale project activity under the Type-I of the Small-Scale methodology. The methodology AMS-I.D, version 18, is applicable as it encompasses renewable energy generation units supplying electricity to a grid. The project’s installed wind turbines have a combined capacity of 6.5 MW, which is below the 15 MW eligibility limit for small-scale projects. There is no co-firing of fossil fuel, making the project solely reliant on wind energy. Therefore, the conclusion is that the applied methodology and standardized baseline are appropriate and applicable to the project activity</p> |

D.3.3 Project boundary, sources and GHGs

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| <p>Means of Project Verification</p> | <p>Project Boundary: The spatial extent includes the project power plant and all power plants physically connected to the electricity system, which encompasses the Wind Turbine Generators and the Indian grid system.</p> |
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| | <p>Sources and GHGs: The verification consider CO₂ as the primary GHG from electricity generation in fossil fuel-fired power plants. Other GHGs like CH₄ and N₂O are deemed minor sources and are not included.</p> <p>Verification Process: 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’s representatives. The meters are jointly inspected, sealed, and calibrated following national guidelines to ensure accuracy. The data is archived electronically and subjected to Quality Assurance and Quality Control (QA/QC) measures for reliable and transparent monitoring. The project activity’s emission reductions are calculated using the formula</p> <p>ER_y = BE_y - PE_y - LE_y</p> <p>where</p> <p>ER_y is the emission reduction, BE_y is the baseline emission, PE_y is the project emission, and LE_y is the leakage emission.</p> <p>Baseline emissions are calculated using the formula BE_y = EGP_{J,y} X EF_{grid,y} with EGP_{J,y} being the net electricity generation and EF_{grid,y} being the emission factor recommended by the Universal Carbon Registry. Project emissions are considered zero since the renewable energy project activity does not emit CO₂, and leakage emissions are also considered zero. The total emission reduction for the monitoring period is reported as 90,165 tCO₂eq.</p> |
| <p>Findings</p> | <p>Upon verification, the document outlines the project boundary for the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), as including the project power plant and all power plants connected to the electricity system. The sources of greenhouse gases (GHGs) considered are CO₂ emissions from electricity generation in fossil fuel-fired</p> |



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| | <p>power plants, which the project displaces. It is noted that CH₄ and N₂O emissions are minor and not included. The project activity itself does not emit CO₂, CH₄, N₂O, or other GHGs, as it involves generating electricity through wind energy, a clean renewable source. Therefore, the total GHG emission reductions achieved by the project during the monitoring period are 90,165 tCO₂eq.</p> |
| Conclusion | <p>In conclusion, for the Project boundary, sources, and GHGs from the adjacent document would be as follows:</p> <p>Project Boundary: The project boundary encompasses the wind turbine generators and the Indian grid system, including all power plants physically connected to the electricity system.</p> <p>Sources and GHGs: The primary greenhouse gas (GHG) considered is CO₂, with emissions resulting from electricity generation in fossil fuel-fired power plants. Other GHGs like CH₄ and N₂O are deemed minor sources and are not included.</p> <p>Baseline Scenario: The baseline scenario assumes that in the absence of the project, electricity would have been generated by grid-connected fossil fuel-based power plants.</p> <p>Emission Reductions: The project activity replaces this fossil fuel-based electricity with renewable wind energy, leading to a reduction of 90,165 tCO₂eq for the monitoring period.</p> <p>This assessment confirms the project's contribution to reducing GHG emissions by displacing fossil fuel-based power generation with renewable wind energy.</p> |



D.3.4 Baseline scenario

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| <p>Means of Project Verification</p> | <p>Emission Factor Application: The baseline scenario assumes electricity would have been generated by grid-connected power plants using fossil fuels. The document applies a “grid emission factor” of 0.9 tCO₂/MWh for the years 2013-2023 as a conservative estimate for the project’s emission reductions.</p> <p>Electricity Generation Measurement: The net electricity generation that is produced and fed into the grid as a result of the project activity is measured and recorded by Joint Meter Readings and invoices. This data is used to calculate baseline emissions.</p> <p>Monitoring and Calibration: The project activity involves continuous monitoring with calibrated energy meters by the State Electricity Board authorities. The meters are jointly inspected and sealed by authorized representatives 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, and archiving, ensuring the data’s reliability and transparency.</p> <p>These verification means ensure that the project’s contribution to emission reductions is accurately measured and reported.</p> |
| <p>Findings</p> | <p>Upon verification, the document outlines the baseline scenario for a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, India. The baseline scenario assumes that, in the absence of the project, electricity would have been generated by grid-connected fossil fuel-based power plants. The project displaces this with wind-generated electricity, contributing to greenhouse gas (GHG) emission reductions. A “grid emission</p> |



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| | <p>factor” of 0.9 tCO₂/MWh is recommended by the Universal Carbon Registry (UCR) for the years 2013-2023. The total CO₂e emission reductions by the project activity are 90,165 tCO₂eq for the monitoring period from 2013 to 2023.</p> |
| <p>Conclusion</p> | <p>In conclusion, the baseline scenario for the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra is that, in the absence of the project, electricity would have been generated by grid-connected fossil fuel-based power plants and by adding new fossil fuel-based generation sources to the grid. The project displaces this with renewable wind energy, thereby reducing greenhouse gas emissions. The baseline emissions are calculated using a UCR recommended emission factor of 0.9 tCO₂/MWh, which is conservative compared to the combined margin grid emission factor derived from the Central Electricity Authority (CEA) database in India. The total CO₂eq emission reductions by the project activity are 90,165 tCO₂eq for the monitoring period from 2013 to 2023. This demonstrates the project’s contribution to climate change mitigation by replacing fossil fuel-based electricity generation with clean renewable energy.</p> |

D.3.6 Estimation of Emission Reductions or Net Anthropogenic Removal

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| <p>Means of Project Verification</p> | <p>Monitoring Plan: The project activity involves generating electricity from wind, and the employed Wind Turbine Generator can only convert wind energy into electrical energy. The recording of electricity fed to the state utility grid is carried out jointly at the incoming feeder of the state power utility (MSEDCL).</p> <p>Data Management: Quality Assurance and Quality Control (QA&QC) measures are established to control and manage data reading, recording, auditing, and archiving. Data is monitored daily and submitted to project proponents (PPs) on a daily basis.</p> |
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| | <p>Calibration and Inspection: Metering devices are calibrated and inspected properly and periodically according to state electricity board specifications to ensure accuracy in readings.</p> <p>Joint Measurement: The net energy exported 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>These measures ensure that the data regarding the electricity generated and supplied to the grid is reliable, transparent, and accurately reflects the emission reductions achieved by the project.</p> |
| Findings | <p>Upon verification, based on the document provided, the findings for the Estimation of Emission Reductions or Net Anthropogenic Removal are as follows:</p> <p>Total Emission Reductions: The project achieved a total of 90,165 tCO₂eq (tonnes of CO₂ equivalent) in emission reductions over the monitoring period from 01/01/2013 to 31/12/2023.</p> <p>Baseline Scenario: The baseline scenario assumes that in the absence of the project, electricity would have been generated by fossil fuel-based power plants connected to the grid.</p> <p>Project Emissions: The wind power project activity resulted in zero project emissions, as it involves renewable energy generation with no associated CO₂ emissions.</p> <p>Leakage Emissions: There were no leakage emissions reported, which implies that the project did not result in increased emissions outside of its boundary.</p> <p>These findings indicate that the wind power project has contributed significantly to reducing greenhouse gas</p> |



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| | emissions by replacing fossil fuel-based electricity generation with renewable wind energy. |
| Conclusion | <p>In conclusion, based on the document provided, the Estimation of Emission Reductions or Net Anthropogenic Removals is as follows:</p> <p>Total Emission Reductions: The project achieved a total of 90,165 tCO₂eq in emission reductions over the monitoring period from 01/01/2013 to 31/12/2023.</p> <p>Baseline Scenario: The wind power project replaced electricity that would have otherwise been generated by fossil fuel-based power plants connected to the Indian grid.</p> <p>Project Emissions: As it's a renewable energy project involving wind turbines, the project emissions are considered to be zero.</p> <p>Leakage Emissions: There are no leakage emissions associated with this project, as per the methodology AMS-I.D. version 18.</p> <p>The project effectively contributes to climate change mitigation by displacing fossil fuel-based electricity generation with renewable wind energy.</p> |



D.3.7 Monitoring Report

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| 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 (MSEDCL) once a month in the presence of both parties (the developer's representative and officials of the state power utility).</p> <p>Calibration and Inspection: 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 established to effectively control and manage data reading, recording, auditing as well as archiving data and all relevant documents.</p> <p>Data Monitoring: The data is monitored on a daily basis and submitted to the project proponents (PPs) on a daily basis. The net energy exported to the grid is measured every month 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 and sealed by authorized representatives of the company and the state utility.</p> <p>These measures ensure that the data regarding the electricity delivered to the grid by the project activity is reliable and transparent</p> |
| Findings | <p>Upon verification, based on the monitoring report from the adjacent document, the findings would likely highlight the following:</p> <p>Project Implementation: The 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra has been successfully implemented, with a total of 5 Wind Turbine Generators (WTGs) commissioned across three phases.</p> |



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|-------------------|--|
| | <p>Emission Reductions: The project has achieved significant greenhouse gas (GHG) emission reductions totalling 90,165 tCO₂eq over the 11-year monitoring period from 2013 to 2023.</p> <p>Electricity Generation: A total of 1,00,191 MWh of electricity was generated and supplied to the grid, displacing the equivalent amount of power that would have been produced by fossil fuel-based power plants.</p> <p>Technology and Equipment: The project utilized advanced wind turbine technology provided by Suzlon Energy Ltd, contributing to clean energy generation and climate change mitigation efforts.</p> <p>These findings demonstrate the project's contribution to sustainable development and its role in reducing carbon emissions.</p> |
| Conclusion | <p>In conclusion, the monitoring report for the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra concludes that the project has successfully generated a total of 90,165 Carbon Offset Units (CoUs), equivalent to 90,165 tCO₂eq, over the 11-year monitoring period from 2013 to 2023. The project activity involved the installation of new grid-connected wind power plants, which contributed to climate change mitigation by displacing fossil fuel-based power generation with renewable wind energy. No negative environmental impacts were associated with the project, and it supported sustainable development through social, economic, environmental, and technological well-being. The project's implementation aligns with the applied baseline methodology AMS-I.D: "Grid connected renewable electricity generation", version 18, and adheres to the Universal Carbon Registry (UCR) standards. Overall, the project demonstrates effective climate action by reducing greenhouse gas emissions through renewable energy generation.</p> |



D.4. Start date, crediting period and duration

| | |
|--------------------------------------|--|
| Means of Project Verification | <p>Start Date Verification: The commissioning date of the project is verified as 29/09/2005, which is documented in the monitoring report.</p> <p>Crediting Period Verification: The crediting period is confirmed to be from 01/01/2013 to 31/12/2023, a duration of 11 years, as stated in the report.</p> <p>Duration Verification: The monitoring period number and duration are also verified within the report, covering the same 11-year span from 01/01/2013 to 31/12/2023.</p> <p>These verifications are based on the data provided in the monitoring report, including commissioning certificates and calibration certificates of energy meters. The project's implementation status and electricity generation data are monitored and recorded, ensuring the accuracy of the verification process.</p> |
| Findings | <p>Upon verification, based on the document provided, here are the findings regarding the start date, crediting period, and duration:</p> <p>Start Date: The crediting period for the carbon offset project began on January 1st, 2013.</p> <p>Crediting Period: The project activity has a crediting period of 11 years, which is the same as the monitoring period.</p> <p>Duration: This period includes both the start and end dates, extending from January 1st, 2013 to December 31st, 2023.</p> <p>These details are crucial for verifying the project's eligibility for carbon credits within the specified</p> |



| | timeframe |
|-------------------|---|
| Conclusion | <p>In conclusion, the document indicates that the crediting period for the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra began on January 1st, 2013. The duration of the crediting period covered in this monitoring report is 11 years, concluding on December 31st, 2023. The project's commissioning date is noted as September 29th, 2005. Throughout this period, the project has generated a total of 90,165 Carbon Offset Units (CoUs), equating to the same amount in tCO₂eq, contributing to greenhouse gas emission reductions. No changes to the start date of the crediting period are reported, ensuring consistency with the planned project timeline.</p> |



D.5. Positive Environmental impacts

| | |
|---|--|
| <p>Means of Project Verification</p> | <p>Emission Reductions: The project’s emission reductions are verified through the calculation of baseline emissions, project emissions, and leakage emissions, ensuring that the total GHG emission reductions are accurately accounted.</p> <p>Monitoring Plan: A comprehensive monitoring plan is in place, involving the measurement of net electricity supplied to the grid, with QA/QC procedures to ensure data reliability.</p> <p>Technical Specifications: Verification of the installed technology, such as wind turbines, is conducted to confirm that they meet the required technical specifications and contribute to environmental well-being.</p> <p>Sustainable Development Indicators: The project adheres to the Government of India’s stipulated indicators for sustainable development, which include economic, social, environmental, and technological well-being.</p> <p>These measures help ensure that the project generates positive environmental impacts and contributes to climate change mitigation efforts.</p> |
| <p>Findings</p> | <p>Upon verification, the document outlines the positive environmental impacts of a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, India. The project contributes to climate change mitigation by generating clean energy and reducing greenhouse gas emissions. Over the 11-year monitoring period, it achieved a total of 90,165 tCO_{2eq} in emission reductions. The wind power project displaces electricity that would have been generated by fossil fuel-based power plants, thereby conserving natural resources and reducing specific emissions.</p> |



| | |
|-------------------|--|
| | Additionally, the project promotes the use of renewable energy and supports sustainable development goals. |
| Conclusion | <p>In conclusion, the document outlines the positive environmental impacts of the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, India. The project contributes to climate change mitigation by generating clean energy and reducing greenhouse gas emissions. It displaces the need for fossil fuel-based power generation, leading to a total of 90,165 tCO₂eq emission reductions over the monitoring period from 2013 to 2023. Additionally, the use of wind energy, a renewable resource, aids in conserving finite natural resources like coal. Overall, the project has a beneficial impact on the environment by promoting sustainable energy and reducing pollution.</p> |



D.6. Project Owner- Identification and communication

| | |
|--------------------------------------|--|
| Means of Project Verification | <p>Project Identification: The project is identified as a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, with UCR Project Registration Number 440.</p> <p>Communication Channels: The responsible contact person for the project is Mr. Girdhari Bargujar, with contact details including a phone number (+91 8595235741) and an email address (finsupport@tcil.com).</p> <p>Verification Process: The project's electricity generation data is monitored continuously, with monthly joint measurements carried out by the developer's representative and officials of the state power utility, MSEDCL. The energy meters used for recording are calibrated and inspected as per the state electricity board's specifications.</p> <p>Documentation: The project maintains electronic archives of data and relevant documents, ensuring reliable and transparent data management. Quality Assurance and Quality Control (QA&QC) measures are implemented for data reading, recording, auditing, and archiving. Calibration certificates for energy meters are also maintained as part of the verification process.</p> <p>These points summarize the key aspects of project verification related to identification and communication for the Project Owner. If you need further details or have specific questions, feel free to ask.</p> |
| Findings | <p>Upon verification, based on the document provided, the findings for the Project Owner - Identification and Communication would include:</p> <p>Project Proponent: The project is initiated by M/s. Transport Corporation of India Limited (TCIL), a leading</p> |



| | |
|-------------------|--|
| | <p>integrated multimodal logistics and supply chain solutions provider in India.</p> <p>Corporate Address: TCIL's corporate office is located at TCI House, 69 Institutional Area, Sector 32, Gurugram-122207, Haryana, India.</p> <p>Host Party: The host country for the project is India, where the wind power project is situated.</p> <p>Contact Information: The responsible person for communication is Mr. Girdhari Bargujar, who can be contacted at +91 8595235741 or via email at finsupport@tcil.com.</p> <p>These details ensure clear identification and provide appropriate channels for communication regarding the carbon credit project.</p> |
| Conclusion | <p>In conclusion, the Project Owner regarding Identification and Communication would likely affirm that TCIL has been properly identified as the project proponent with a clear corporate address. The communication channels are well-established, with contact information provided for responsible persons/entities, ensuring transparency and accountability. Additionally, the project's registration number and all relevant technical and operational details are meticulously documented, which supports the credibility of the monitoring process and the issuance of Carbon Offset Units (CoUs). Overall, the project demonstrates compliance with the necessary standards for carbon credit verification.</p> |



D.7. Positive Social Impact

| | |
|---|---|
| <p>Means of Project Verification</p> | <p>Employment Generation: The project created direct and indirect employment opportunities during construction, operation, and maintenance of the wind turbines.</p> <p>Infrastructure Development: Improved road networks facilitated transportation of turbine components and maintenance equipment.</p> <p>Economic Diversification: Local economic growth was encouraged by improving infrastructure and energy availability.</p> <p>Technological Advancement: Introduction of advanced wind turbine technology and technical training programs for local technicians and engineers.</p> <p>These aspects contribute to the social well-being and sustainable development of the local community, aligning with the project's goals for positive social impact. Verification would involve assessing these contributions against the project's stated objectives and outcomes.</p> |
| <p>Findings</p> | <p>Upon verification found the following findings: -</p> <p>Employment Generation: The project created direct jobs in construction, operation, and maintenance of wind turbines, and stimulated ancillary industries.</p> <p>Infrastructure Development: Improved road networks facilitated transportation of turbine components and maintenance equipment.</p> <p>Economic Upliftment: Enhanced land value and provided new economic opportunities through improved infrastructure and energy access.</p> <p>Technological Advancement: Introduced</p> |



| | |
|--------------------------|---|
| | <p>advanced wind turbine technology to the region and provided technical training for local technicians and engineers.</p> <p>These findings indicate that the 6.5 MW Wind Power Project by Transport Corporation of India Limited. has had a significant positive impact on social aspects in the project area.</p> |
| <p>Conclusion</p> | <p>In conclusion, the document outlines the positive social impact of the 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, India. It highlights: -</p> <p>Employment Generation: The project created direct and indirect jobs during construction, operation, and maintenance phases.</p> <p>Infrastructure Development: Improved road networks facilitated transportation of turbine components and maintenance equipment.</p> <p>Economic Upliftment: Local economic growth was encouraged, enhancing land value and providing new economic opportunities.</p> <p>Technological Advancement: Introduction of advanced wind turbine technology and technical training programs for local technicians.</p> <p>In conclusion, the project has had a significant positive social impact by contributing to employment, infrastructure, economic, and technological development in the region.</p> |

Sustainable development aspects (if any)

| | |
|---|---|
| <p>Means of Project Verification</p> | <p>Social Well-being: Verification includes assessing employment generation, both direct and indirect, and infrastructure development, such as road improvements.</p> |
|---|---|



| | |
|--------------------------|---|
| | <p>Environmental Well-being: Verification focuses on pollution reduction through clean energy generation and GHG emission reduction, as well as resource conservation by using renewable resources.</p> <p>Economic Well-being: Verification involves evaluating economic diversification, land value enhancement, and ensuring fair compensation for land use.</p> <p>Technological Well-being: Verification includes examining the deployment of advanced technology, energy quality improvement, and innovation promotion.</p> <p>These aspects ensure the project contributes positively to sustainable development while adhering to environmental, social, and economic standards.</p> |
| <p>Findings</p> | <p>Upon verification, it was found that the sustainable development aspects of a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, India details the project’s contribution to social well-being through employment generation and infrastructure development. Environmental well-being is addressed by reducing pollution and conserving resources through renewable wind energy. Economic well-being is enhanced by local economic growth and land value enhancement. Technologically, the project promotes advanced technology deployment, energy quality improvement, and innovation promotion. These aspects align with the sustainable development indicators stipulated by the Government of India.</p> |
| <p>Conclusion</p> | <p>In conclusion, the document outlines the sustainable development aspects of a 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), in Maharashtra, India, highlighting its contributions to social, environmental, economic, and technological well-being. The project created employment and improved local infrastructure, generated clean energy to reduce pollution and greenhouse gas emissions, spurred local economic growth, enhanced land value,</p> |



| | |
|--|--|
| | provided fair compensation for land use, and deployed advanced wind turbine technology to improve energy quality and promote innovation. Overall, the project positively impacts sustainable development across multiple dimensions. |
|--|--|

Section E. Internal quality control

Throughout the verification of this project, rigorous internal quality control measures were diligently implemented to ensure accuracy and reliability. Regular internal reviews of verification procedures, documentation, and reports were conducted to promptly address any errors or discrepancies. Verification staff received continuous 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. Comprehensive 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 consensus on conclusions. Continuous improvement processes were instituted to evaluate verification practices, identify areas for enhancement, and improve 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 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Maharashtra, 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 6.5 MW Wind Power Project by M/s. Transport Corporation of India Limited (TCIL), at Maharashtra, India, (UCR ID – **440**) for the period **01/01/2013 to 31/12/2023** amounts to **90,165 CoUs (90,165 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. |
| tCO2e | 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 Lead Auditor in ISO 9001,14001 & 45001 | Carbon Verifier for all major sectors such as Wind, Solar, Hydro, Biomass, Biogas, Waste Heat Recovery, Biofuel, etc. |

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 | Emission Reduction | M/s. Transport Corporation of |



| | | | |
|---|--|----------------------------|---|
| | Corporation of India Limited (TCIL). | Calculation Sheet | India Limited (TCIL). |
| 4 | M/s. Transport Corporation of India Limited (TCIL). | Invoices | M/s. Transport Corporation of India Limited (TCIL). |
| 5 | Maharashtra State Electricity Dist. Co. Ltd. | Joint Meter Readings | M/s. Transport Corporation of India Limited (TCIL). |
| 6 | Maharashtra State Electricity Dist. Co. Ltd. | Commissioning Certificates | M/s. Transport Corporation of India Limited (TCIL). |
| 7 | Maharashtra State Electricity Dist. Co. Ltd. | Meter Calibration | M/s. Transport Corporation of India Limited (TCIL). |
| 8 | Maharashtra State Electricity Distribution Company Limited & M/s. Transport Corporation of India Limited (TCIL). | Power Purchase Agreement | 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> | | | | |

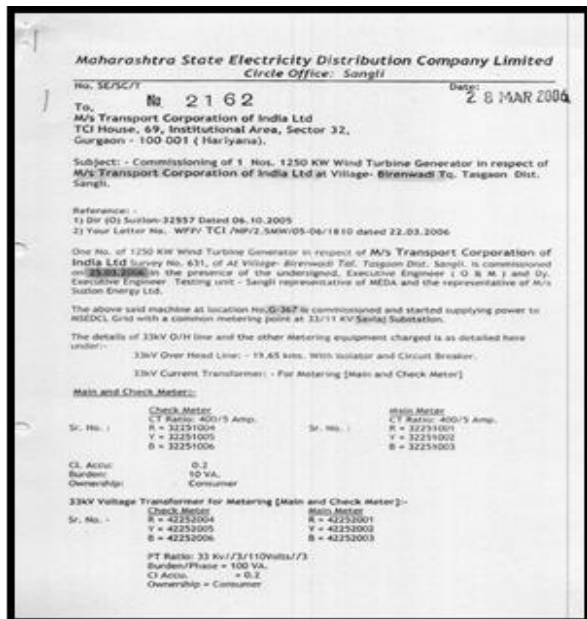
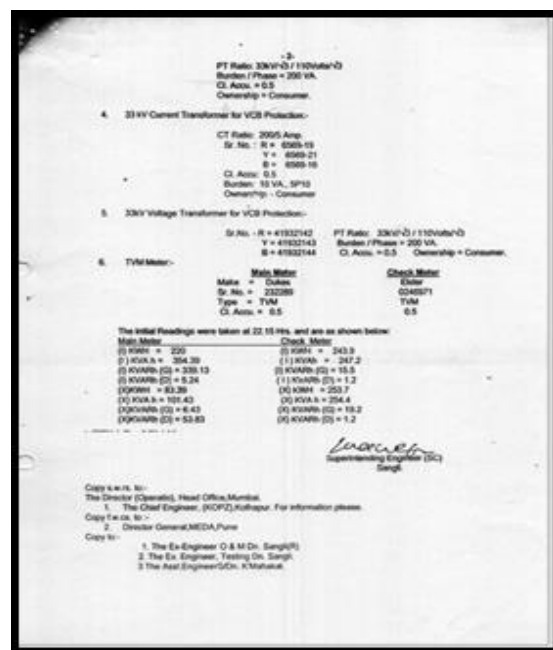
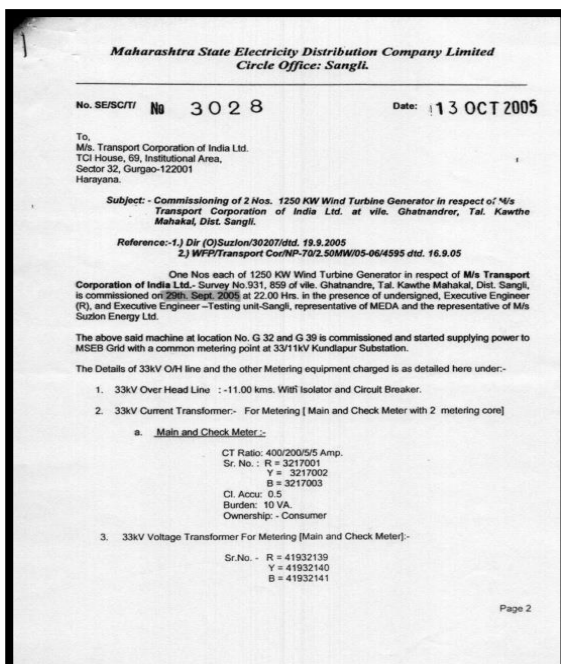
Table 2. CARs from this Project Verification

| | | | | |
|--|----|--------------------|--|-------------------------|
| 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 | | | |
| n/a | | | |
| Project Owner's response | | | Date: DD/MM/YYYY |
| n/a | | | |
| Documentation provided by Project Owner | | | |
| n/a | | | |
| UCR Project Verifier assessment | | | Date: DD/MM/YYYY |
| n/a | | | |





Maharashtra State Electricity Distribution Company Limited
Circle Office: Sangli

No. SE/SCT/ 2394 Date: 7 APR 2006

To,
M/s Transport Corporation Of India Ltd,
Orpat Industrial Estate, Rajkot Highway,
Morbi - 363 641.

Subject: - Commissioning of 1 Nos. 1250 KW Wind Turbine Generator in respect of M/s Transport Corporation Of India Ltd. at Village- Birenwadi Tal-Taxgaon Dist. Sangli.

Reference: -
1) Dir (O) Section-32557 Dated 04.10.2005
2) Your Letter No. WPP/TCU/NP/2.SOMW/05-06/1810 dated 22.03.2006

One No. of 1250 KW Wind Turbine Generator in respect of M/s Transport Corporation Of India Ltd. survey No. 630 of Village- Birenwadi Tal- Taxgaon Dist. Sangli is commissioned on 31.03.2006 in the presence of Executive Engineer (O & M) and Dy. Executive Engineer - Testing unit - Sangli and the representative of M/s Sutton Energy Ltd.

The above said machine at location No. G-368 is commissioned and started supplying power to MSEDCCL Grid with a common metering point at 33KV (V) Sagad Substation.

The details of 33KV O/H line and the other Metering equipment charged is as detailed here under:-
33KV Over Head Line - 19.65 kms. With Isolator and Circuit Breaker.
33KV Current Transformer - For Metering (Main and Check Meter).

| Main and Check Meter:- | |
|--|--|
| Check Meter | Main Meter |
| Sr. No. : R = 32251004 Y = 32251005 B = 32251009 | Sr. No. : CT Ratio: 400/5 Amp. R = 32251001 Y = 32251002 B = 32251003 |
| CL Accu: 0.2 | |
| Burden: 10 VA. | |
| Ownership: Consumer | |

33KV Voltage Transformer For Metering (Main and Check Meter):-

| Check Meter | Main Meter |
|--|--|
| Sr. No. - R = 42252004 Y = 42252005 B = 42252006 | R = 42252001 Y = 42252002 B = 42252003 |

33KV Current Transformer for VCB Protection:-

CT Ratio: 400/200/5/5 AMP
Sr.No R = 3217007
Y = 3217008
B = 3217009

Cl Accu = 0.5
Burden/Phase = 10 VA. 5P10
Ownership = Consumer

33KV Voltage Transformer for VCB Protection:-

Sr.No R = 41932142 PT Ratio: 33kv/7/110 Volts/73
Y = 41932143 Burden/Phase = 100VA.
B = 41932144 Cl Accu = 0.5.
Ownership = Consumer

TMV Meter :-

| | Main Meter | Check Meter |
|----------|------------|-------------|
| Make | Elster | Elster |
| Sr.No | 04725819 | 04725818 |
| Type | TOO-TVM | TOO-TVM |
| Cl Accu. | 0.2 | 0.2 |

The initial readings were taken and are shown as given below:-

| Main Meter | | Check Meter | |
|-------------|----------|-------------|----------|
| I KWH | = 663.30 | KWH | = 662.40 |
| I KVA h | = 709.20 | KVA h | = 708.30 |
| I KVARh (D) | = 166.00 | KVARh (D) | = 165.90 |
| I KVARh (G) | = 021.00 | KVARh (G) | = 021.00 |
| X KWH | = 010.20 | KWH | = 010.20 |
| X KVA h | = 011.20 | KVA h | = 011.20 |
| X KVARh (G) | = 002.40 | KVARh (G) | = 0002.4 |
| X KVARh (D) | = 021.30 | KVARh (D) | = 021.30 |

Superintending Engineer (SC)
Sangli

Copy to: -
1. The Director (Operation), Head Office Mumbai.
2. The Chief Engineer (WDP), Kolhapur, For information please Copy f.w.c. to:-
3. Director General, NEDA, Pune
4. The Ex-Engineer O & M Dr. Sangli(R)
5. The Ex-Engineer, Testing Dr. Sangli
6. The Asst. Engineer S/Dn. K'Mahalkar

Maharashtra State Electricity Distribution Company Limited
Circle Office-Sangli

No. SE/SCT/ 23173 Date: 29 APR 2007

M/s Transport Corporation of India,
1 & 2, Western India House,
89 P.M. Road Fort,
Mumbai-400 001

Subject: Commissioning of 1 No of 1500 KW Wind Turbine Generator in respect of M/s Transport Corporation of India at village Jarand, Tal. Taxgaon, Dist. Sangli.

Reference: - 1) Dir (O) Section-32557 Dtd 04.10.2005
2) PMA C/C T/C (R.S) MW/07/174 dtd. 20th March 2007.
3) EER/PS/1 dtd 23.03.2007
4) EER/SOL/Tax/3119 Dtd 28.03.07

One No. of 1500 KW Wind Turbine Generator in respect of M/s Transport Corporation of India, Survey No. 418 of village Jarand, Tal. Taxgaon, Dist. Sangli, Location No. R 78 is commissioned on 29th March 2007 in the presence of Executive Engineer (ADM) C/O Sangli, Assistant Engineer C/O Sangli, Dy Executive Engineer-Testing unit-Sangli, and the representative of M/s Sutton Energy Ltd. and started supplying power to MSEDCCL Grid with a common metering point at 33.20KV Chandrale Substation on Feeder No 7 and started supplying power to MSEDCCL Grid as detailed under.

| Make - Sutton | Frequency - 50 Hz | Recorded Generation in per cent |
|--------------------|------------------------|---------------------------------|
| Sr.No. - 319108075 | Current - 1750 Amp. | constant load |
| Cat. No. - 1500 KW | Chandrale Feeder: 7 at | 1096KWH (2.42) at 16.30 |
| Voltage - 660 Vrms | 33.20KV Chandrale Ss. | Hrs. |

The details of 33KV O/H line and the other Metering equipment charged is as detailed here under:-
1. 33kv over Head Line - 0.08 Km. With Isolator and Circuit Breaker.

33KV Current Transformer - For Metering (Main and Check Meter)

| Main Meter | Check Meter |
|---|---|
| Sr. No. : CT Ratio: 600/5 Amp. R = 330208466 Y = 330208469 B = 330208487 | Sr. No. : CT Ratio: 600/5 Amp. R = 330208509 Y = 330208499 B = 330208505 |
| Cl. Accu: 0.2 | |
| Burden: 20 VA. | |
| Ownership: Consumer | |

33KV Voltage Transformer For Metering (Main and Check Meter)

| Main Meter | Check Meter |
|--|---|
| Sr No - R = 3307108193 Y = 3307108192 B = 3307108188 | Sr No. - R = 3307108193 Y = 3307108200 B = 3307108201 |
| PT Ratio: 33KV/7/110Volts/73 | |

Maharashtra State Electricity Distribution Company Limited
Circle Office-Sangli

Burden/Phase = 20 VA.
Cl. Accu = 0.2
Ownership = Consumer

TMV Meter :-

| | Main Meter | Check Meter |
|----------|------------|-------------|
| Make | Elster | Elster |
| Sr.No | 04725819 | 04725818 |
| Type | TOO-TVM | TOO-TVM |
| Cl Accu. | 0.2 | 0.2 |

The initial readings were taken and are shown as given below:-

| Main Meter | | Check Meter | |
|-------------|-----------|-------------|-----------|
| I KWH | = 1750.00 | KWH | = 1630.00 |
| I KVA h | = 1816.00 | KVA h | = 1690.00 |
| I KVARh (D) | = 572.00 | KVARh (D) | = 560.00 |
| I KVARh (G) | = 542.00 | KVARh (G) | = 530.00 |
| X KWH | = 708.00 | KWH | = 700.00 |
| X KVA h | = 718.00 | KVA h | = 700.00 |
| X KVARh (D) | = 181.00 | KVARh (D) | = 170.00 |
| X KVARh (G) | = 162.00 | KVARh (G) | = 150.00 |

Superintending Engineer (SC)
Sangli

रु. 100
ONE HUNDRED RUPEES
भारत INDIA
INDIA NON JUDICIAL

MAHARASHTRA
1 SEP 2005

960249
3 SEP 2005

THIS WIND ENERGY PURCHASE AGREEMENT (the "Agreement") is made this 28th day of September, 2005

BETWEEN
TRANSPORT CORPORATION OF INDIA LTD a limited company duly registered in India, having its office at 1 & 2, Western India House, 89 P.M. Road, Fort, Mumbai - 400 001, Maharashtra, India, hereinafter referred to as the "Buyer" (which expression shall extend to its successors and assigns)

AND
Maharashtra State Electricity Distribution Company Limited a statutory Company constituted under Company Act 1956, with its Registered Office at Hong Kong Bank Building, 27th Floor, M.D. Road, Fort, Mumbai 400 025, hereinafter referred to as the "MSEDCCL" (which expression shall extend to its successors and assigns)

For MSEDCCL
Director (O)

भारत INDIA
रु. 500
FIVE HUNDRED RUPEES
भारत INDIA
INDIA NON JUDICIAL

MAHARASHTRA
11 JUN 2005

SHORT TERM POWER PURCHASE AGREEMENT BETWEEN
Transport Corporation of India Limited
MSEDCCL

Maharashtra State Electricity Distribution Company Limited

The above Purchase Agreement is entered into by and between "Transport Corporation of India Ltd" a Company incorporated under the Companies Act, 1956, having its registered office at 1 & 2, Western India House, 89 P.M. Road, Fort, Mumbai - 400 001, Maharashtra, India, hereinafter referred to as the "Buyer" (which expression shall extend to its successors and assigns) and "MSEDCCL" a Company incorporated under the Companies Act, 1956 and its registered office at 27th Floor, Hong Kong Bank Building, 27th Floor, M.D. Road, Fort, Mumbai - 400 025, Maharashtra, India, hereinafter referred to as "MSEDCCL", which expression shall extend to its successors and assigns.

For MSEDCCL
Director (O)



MAHARASHTRA STATE ELECTRICITY DIST. CO. LTD. 16 MAY 2016
 MAHAVITARAN CIRCLE OFFICE SANGLI No-4810
 MONTH APRIL 2016
 SUZLON GHATNANDRE FEEDER NO. 2

| Sl. No. | Particulars | Amount |
|-------------|---------------------------------|----------|
| 1 | NET KWH EXPORT TO MSEDCL | 48978.20 |
| 2 | REACTIVE POWER EXPORT BY MSEDCL | 33.15 |
| Total | | 48978.20 |
| Rounded Off | | 48978 |

Amount in Words: Rupees two lacs fifteen thousand four hundred seventy only

We authorize M/s. Suzlon Energy Ltd. to collect our MSEDCL payment in the form of DD/RTGS/Account Payee Cheque as requested above. You may deduct the bank charges from the payment.

Received with thanks from MSEDCL, Sangli the sum of Rs.2,15,471/- (Rupees two lacs fifteen thousand four hundred seventy only)

This receipt is issued subject to realization of the payment.

INVOICE

To: Superintending Engineer (O & M) Maharashtra State Electricity Distribution Company Ltd., Sangli (M.S.)

Invoice No: TCI/WPP-IV/INV/2012-13-1099
 Invoice Date: 11th February 2013
 MSEDCL Report Ref. No: Developer No: G-367

Bill for the month: JANUARY 2013

| Sl. No. | Particulars | Unit | Rate | Amount |
|---------|--|------------|-------------|----------------|
| 1 | NET KWH EXPORT TO MSEDCL | KWH | Rs. per KWH | Rs. |
| | Month | Import KWH | Export KWH | Net Import KWH |
| | Jan 13 | 49950.40 | 100.40 | 49850.00 |
| | LESS: | | | |
| 2 | REACTIVE POWER EXPORT BY MSEDCL | | | |
| | Total RPOVAH export from the GRD of MSEDCL to our Wind Mills as per the Certificate from MSEDCL (Copy enclosed). | | 102.00 | 0.3200 |
| | Total | | Rs. | 215470.93 |
| | Rounded Off | | Rs. | 215,471/- |

Please remit the payment by way of RTGS to our A/C No. 6003230004793 of State HFSC Bank Ltd., New Delhi, having RTGS Code no. HDFC 0000083 / DD in favour of Transport Corporation of India Ltd., payable at New Delhi / Cheque in favour of: Group CEO & Co. Secretary

E.O.E.

Authority Letter cum Advance Receipt: We authorize M/s. Suzlon Energy Ltd. to collect our MSEDCL payment in the form of DD/RTGS/Account Payee Cheque as requested above. You may deduct the bank charges from the payment.

Received with thanks from MSEDCL, Sangli the sum of Rs.2,15,471/- (Rupees two lacs fifteen thousand four hundred seventy only)

This receipt is issued subject to realization of the payment.

Transport Corporation of India Ltd.
 Corporate Office: TCI House, 80 Institutional Area, Sector-32, Gurgaon-122 207, Haryana, India. www.tci.com
 Tel: +91-124-2381603-07 Fax: +91-124-2381611 Email: corpor@tci.com
 Regd. Office: Flat No. 306 & 307, 1-6-273, Third Floor, Ashoka Bhoopee Chambers, 5 P Road, Secunderabad - 500 003



