



Verification Report

UCR ID: 178

Prepared by



Naturelink Solutions Pvt. Ltd.

| | |
|-------------------------|---|
| Title | 2 MW Small Scale Wind Power Project by M/s Vijay Mamra Pvt. Ltd. |
| Project Owner | M/s Vijay Mamra Pvt. Ltd. |
| Project Location | Village:Anterness,Taluka:Santalpur,Dist. Patan:, Gujarat, India. Geographic Coordinates: 23°40'52.4"N and 71°18'37.9"E |
| Date | 29/04/2025 |

COVER PAGE

Project Verification Report Form (VR)

BASIC INFORMATION

| | |
|--|---|
| Name of approved UCR Project Verifier / Reference No. | Naturelink Solutions Pvt. Ltd. |
| Type of Accreditation | <input type="checkbox"/> CDM Accreditation <input type="checkbox"/> ISO 14065 Accreditation <input checked="" type="checkbox"/> UCR Approved Verifier |
| Approved UCR Scopes and GHG Sectoral scopes for Project Verification | Sectoral Scope: 01 Energy Industries |
| Validity of UCR approval of Verifier | May - 2022 onwards |
| Completion date of this VR | 29/04/2025 |
| Title of the project activity | 2 MW Small Scale Wind Power Project by M/S Vijay Mamra Pvt. Ltd. |
| Project reference no. (as provided by UCR Program) | 178 |
| Name of Entity requesting verification service | M/s. Creduce Technologies Private Limited (Aggregator) M/s Vijay Mamra Pvt. Ltd. (Project owner) |
| Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications) | Creduce Technologies Private Limited (Creduce) (Aggregator) M/s. Vijay Mamra Pvt. Ltd (Project Owner) |
| Country where project is located | India |
| Applied methodologies | AMS-I.D: Grid connected renewable electricity generation– Version 18.0/4/ |
| Sectoral Scope(s): | 01 Energy industries (Renewable/Non-renewable Sources) |
| Project Verification Criteria: Mandatory requirements to be assessed | <input checked="" type="checkbox"/> UCR Verification Standard <input checked="" type="checkbox"/> Applicable Approved Methodology |

| | |
|--|--|
| | <input type="checkbox"/> Applicable Legal requirements /rules of the 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 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-approved verifier Naturelink Solution Pvt. Ltd., verifies the following with respect to the UCR Project Activity "2 MW Small Scale Wind Power Project by M/S Vijay Mamra Pvt. Ltd."</p> <p><input checked="" type="checkbox"/> The project aggregator has correctly described the project activity in the Project Concept Note/7/ including the applicability of the approved methodology AMS-I.D/4/ 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 likely to generate GHG emission reductions amounting to the estimated 10,054 tCO₂e, as indicated in the monitoring report V.2 /20/, 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> |


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| | <input checked="" type="checkbox"/> The project activity is not likely to cause any net-harm to the environment and/or society <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. |
| Project Verification Report, reference number and date of approval | Verification Report UCR UCR ID: 178 Version: 1.0 Date: 29/04/2025 |
| Name of the authorised personnel of UCR Project Verifier and his/her signature with date |  Ms. Trapti Joshi GHG Assessor Naturelink Solution Pvt. Ltd. Date: 29/04/2025 |

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1. Project Verification Report

1.1 Executive Summary

The verification work has been contracted by project aggregator M/s. Creduce Technologies Pvt Ltd (aggregator) and M/s. Vijay Mamra Pvt. Ltd. (Owner) to perform an independent verification of its UCR project titled “**2 MW Small Scale Wind Power Project by M/S Vijay Mamra Pvt. Ltd.**”, **UCR approved project ID:178**, to establish a number of CoUs generated by the project over the crediting period from 28/03/2019 to 31/12/2021 (both days included).

Verification for the period: 28/03/2019 to 31/12/2021

In our opinion, the total GHG emission reductions over the crediting/verification period stated in the Monitoring Report (MR) V.2 /20/, submitted are found to be correct and in line with the UCR guidelines/2/. The GHG emission reductions were calculated on the basis of UCR guideline/2/ which draws reference from, the standard baseline, AMS-I. D: Grid connected renewable electricity generation– Version 18.0/4/. The verification was done remotely by way of video calls for site inspection of the plant and submission of documents for verification through emails.

It is certified that the emission reductions from the “2 MW Small Scale Wind Power Project by M/s Vijay Mamra Pvt. Ltd.” (UCR ID – 178) for the period 28/03/2019 to 31/12/2021 amounts to **10,054 CoUs (10,054 tCO₂e)**.

Objective

The objective of this verification is to have an independent third-party assessment of whether the project activity conforms to the qualification criteria set out in the UCR Program Manual/1/, UCR CoU Standard/2/ and UCR verification standard/3/ to attain real, measurable, accurate and permanent emission reductions.

Scope

The scope of the verification is the independent, objective review and ex-post determination of the monitored reductions in GHG emission by the project activity.

1. To verify the project implementation and operation with respect to the registered PCN/7/.
2. To verify the implemented monitoring plan with the registered PCN/7/ applied baseline and monitoring methodology/2/.
3. To verify that the actual monitoring systems and procedures follow the monitoring plan.
4. To evaluate the GHG emission reduction data and express a conclusion whether the reported GHG emission reduction data is free from material misstatement
5. To verify that reported GHG emission data is sufficiently supported by evidence.
6. Agreement stating assurance to avoid double accounting for the project to be verified, along with required proof.

The project is assessed against the requirements of the UCR Program Manual/1/, UCR CoU Standard/2/ and UCR verification standard/3/, ISO 14064-2.

Due professional care has been exercised and ethical conduct has been followed by the assessment team during the verification process. The verification report is a fair presentation of the verification activity. The validation of the project is not part of the present assignment and project is deemed validated post-registration by UCR.

1.2 Description of the Project

The project consists of one WTG with a capacity of 2 MW which was manufactured and supplied by Siemens Gamesa. Wheeling agreement is signed between Uttar Gujarat Vij Company Limited (UGVCL) and PP. M/s Vijay Mamra Pvt. Ltd. is the owner of this project. The project generates clean energy by utilizing the kinetic energy of the wind.

The project activity aims to harness the kinetic energy of wind (a renewable source) to generate electricity. Wheeling agreement is signed between Uttar Gujarat Vij Company Limited (UGVCL) and PP. The project activity has been helping in greenhouse gas (GHG) emission reduction by using renewable resources (wind energy) for generating power which otherwise would have been generated using grid mix power plants, which is dominated by fossil fuel based thermal powerplants. Currently, the NEWNE grid is connected to large numbers of fossil fuel-based power plants.

Technical details for the turbine with a capacity of 2 MW manufactured by Siemens Gamesa are as follows:

| Description | Information |
|--------------------|--|
| Turbine model | Gamesa G97 |
| Rated power | 2 MW |
| Cut in wind speed | 3 m/s |
| Rated wind speed | 11 m/s |
| Cut-out Wind speed | 25 m/s |
| Rotor diameter | 97 m |
| Swept area | 7,390.0 m ² |
| Rotor speed, max | 17.8 U/min |
| No of Blades | 3 |
| Blade Material | Pre-impregnated epoxy glass fiber + carbon fiber |
| Generator Type | Double Fed Asyn |
| Output Voltage | 690 V |
| Grid frequency: | 50/60 Hz |

As mentioned in the monitoring report Ver.2.0/20/ and emission reduction calculation sheet/21/ submitted for verification, the project replaces anthropogenic emissions of greenhouse gases (GHGs) estimated to be 10,054 tCO₂e for the verification period, there on displacing 11,173.498 MWh amount of electricity from the generation of fossil-fuel based power plants connected to the Indian electricity grid.

The project activity uses kinetic energy of wind to generate electricity by installation of a wind turbine generator having a capacity of 2 MW. The project is a small-scale activity. The methodology applied in the monitoring report is verified against the AMS-I. D: Grid connected renewable electricity generation - Version 18.0/4/ total emission reductions (ERs) achieved through the project activity during the monitoring period is summarised below:

| Summary of the Project Activity and ERs Generated for the Monitoring Period | |
|---|---------------------------|
| Project start date | 28/03/2019 |
| Start date of this Monitoring Period | 28/03/2019 |
| Carbon credits claimed up to | 31/12/2021 |
| Total ERs generated (tCO ₂ e) | 10,054 tCO ₂ e |
| Leakage Emission | 0 |
| Project Emission | 0 |

1.3 Project Verification team, technical reviewer and approver:

Project verification team

| Sr. No. | Role | Last name | First name | Affiliation | Involvement in | | |
|---------|--------------|-----------|------------|--------------------------------|----------------|-------------------|------------|
| | | | | | Doc review | Remote inspection | Interviews |
| 1. | GHG Assessor | Joshi | Trapti | Naturelink Solutions Pvt. Ltd. | Yes | Yes | Yes |

2 Verification Process

2.1.1 Desk/document review

The desk review was conducted by the verification team that included:

- A review of data and information presented to assess its completeness
- A review of the initial PCN/7/, MR Version 1.0/8/, MR Version 2.0/20/, emission reduction calculation sheet/21/, Applied Methodology - AMS.I.D /4/.
- A cross-check between information provided in the monitoring report /20/ and data from other sources such as certificate of share of electricity generated by wind farm/18/, Commissioning Certificates/13/ or similar data sources;
- A review of calculations and assumptions made in determining the GHG data and emission reductions calculation/10/;

The list of submitted documents is available in a subsequent section of this verification report under the appendix - 2 “Document reviewed or referenced”.

2.1.2 Remote Inspection

As per UCR Verification Standard Version 2.0/3/, the verification team conducted remote inspection of project activity via video conferencing on 19/04/2025 at locations Patan district as mentioned in the below table.

| Date of Remote inspection: | | 19/04/2025 | | |
|----------------------------|---------------------------------------|--------------------------|------------|---|
| No. | Activity performed On-Site | Site location | Date | Project Personnel |
| 1. | Opening meeting | Project location (Patan) | 19/04/2025 | Mr. Vijay Patel, Director Himanshu Sekhar, Site In-charge (Patan), VMPL |
| 2. | Remote inspection of all installation | Project location (Patan) | 19/04/2025 | Mr. Vijay Patel, Director Himanshu Sekhar, Site In-charge (Patan), VMPL Mr. Kashyap Trivedi – Senior Consultant, CTPL |
| 3. | Closing meeting | Project location (Patan) | 19/04/2025 | Mr. Vijay Patel, Director |

| | | | | |
|--|--|--|--|--|
| | | | | Himanshu Sekhar, Site In-charge (Patan), VMPL Mr. Kashyap Trivedi – Senior Consultant, CTPL |
|--|--|--|--|--|

The following parameters were assessed but not limited to:

- An assessment of the implementation and operation of the registered project activity as per the registered PCN/7/;
- A review of information flows for generating, aggregating, and reporting the monitoring parameters;
- Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PCN/7/ and MR /20/;
- A cross-check of the monitoring equipment including calibration reports and observations of monitoring practices against the requirements of the PCN/7/ and MR Version 1.0/8/, MR Version 2.0/20/ and the selected methodology/4/;
- An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

2.1.3 Interviews

| No. | Interview | | | Date | Subject |
|-----|-----------|------------|----------------|------------|--|
| | Last name | First name | Affiliation | | |
| 1. | Patel | Vijay | Director | 19/04/2025 | Legal ownership of the project, Implementation of the project, start date and crediting period, Double counting of the carbon credits, Monitoring Plan |
| 2. | Sekhar | Himanshu | Site In-charge | 19/04/2025 | Project boundary, Procedure of the generation and export of electricity, Site installation details, details of energy meter and recording of the electricity generation, calibration of energy meter Procedure of the generation and export of the electricity, details of energy meter and recording of the electricity generation, site installations |

| | | | | | |
|----|---------|---------|--|------------|---|
| | | | | | details, calibration of energy meter |
| 3. | Trivedi | Kashyap | Senior Consultant – Creduce Technologies Pvt. Ltd. | 19/04/2025 | Project Overview, PCN, Monitoring Report, Methodology, eligibility criteria, Baseline emissions, Emission Reduction Calculation |

2.1.4 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 |
| Others (Double counting of credits) | 01 | NIL | NIL |
| Total | 01 | NIL | NIL |

3 Project Verification findings

3.1 Identification and eligibility of project type

| | |
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| Means of Project Verification | <p>The project activity involves setting up of a new WTG to harness the wind energy and use it for captive consumption i.e., the Indian grid system through wheeling and banking arrangement. In the absence of the project activity, the equivalent amount of power would have been generated by the operation of grid-connected fossil fuel-based power plants and by the addition of new fossil fuel-based generation sources into the grid. The power produced from other conventional sources which are predominantly fossil fuel based.</p> <p>The project activity aims to harness the kinetic energy of wind (a renewable source) to generate electricity. Wheeling agreement is signed between Uttar Gujarat Vij Company Limited (UGVCL) and PP. The project also delivers real, measurable and additional emission reduction of 10,054 tCO₂e over the crediting period. Project applies an approved CDM monitoring and baseline methodology AMS-I.D: Grid connected renewable electricity generation - Version 18.0./4/</p> |
| Findings | No finding was raised |
| Conclusion | <p>The project is eligible as per the requirements of the UCR General project eligibility criteria and guidance Version 6.0/2/.</p> <p>The project activity is a renewable power generation activity which incorporates installation and operation of single Wind Turbine Generator (WTG) having capacity of 2 MW manufactured and supplied by Siemens Gamesa respectively in district Patan of the state of Gujarat in India. This project has been promoted by M/s Vijay Mamra Pvt. Ltd.</p> <p>The project verification team cross checked the other GHG programmes like Clean Development Mechanism (CDM) Registry, VERRA Registry, Gold Standard (GS) Registry for the information regarding the consistency of the title of the project activity, GPS coordinates, Legal Ownership of the Project activity and confirmed that the project was not submitted or registered under any other GHG programmes and non-voluntary non-GHG Programs.</p> |

3.2 General description of project activity

| | |
|--------------------------------------|---|
| Means of Project Verification | <p>The proposed project activity with title under UCR “2 MW Small Scale Wind Power Project by M/S Vijay Mamra Pvt. Ltd.” in Gujarat is a grid-connected renewable power generation activity which incorporates installation and operation of one Wind Turbine Generator (WTG) having capacity 2 MW, manufactured and supplied</p> |
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| | <p>by Siemens Gamesa in the Gujarat State in India. The project is an operational activity with continuous reduction of GHG, currently being applied under “Universal Carbon Registry” (UCR).</p> <p>The project activity aims to harness the kinetic energy of wind (a renewable source) to generate electricity. Wheeling agreement/15/ is signed between Uttar Gujarat Vij Company Limited (UGVCL) and PP. The project activity has been helping in greenhouse gas (GHG) emission reduction by using renewable resources (wind energy) for generating power which otherwise would have been generated using grid mix power plants, which is dominated by fossil fuel based thermal powerplants. Currently, the NEWNE grid is connected to large numbers of fossil fuel-based power plants.</p> <p>The purpose of the project activity is to utilize clean technology that harnesses wind kinetic energy to generate electricity which would be used to meet the electrical demand of PO.</p> <p>The Location details has been verified during the remote inspection and geo coordinates verified through google earth/Maps.</p> <p>The project owner declared in the PCN/7/ the lifetime of the project activity is 20 Years as guaranteed by the suppliers of wind turbine and same has been verified in the technical specification/12/ provided by the project owner.</p> |
| Findings | No finding was raised |
| Conclusion | The description of the project activity is verified to be true based on the review of PCN/7/, MR Version 01/8/, Version 02/20/ and Commissioning Certificate/13/ of wind power plant components. |

3.3 Application and selection of methodologies and standardized baselines

3.3.1 Application of methodology and standardized baselines

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| Means of Project Verification | <p>The project activity applied AMS-I.D: Grid connected renewable electricity generation– Version 18.0/4/ falls into the small-scale category as per CDM methodology.</p> <p>“The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise, been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid” which is as per the project activity and clearly mentioned in PCN/7/ and MR /20/.</p> |
| Findings | No finding was raised |
| Conclusion | The methodology applied is appropriately meeting the requirements of UCR General project eligibility criteria and guidance/2/, |

standardized baseline. The methodology version is correct and valid.
The referenced methodology is applicable to project activity.

3.3.2 Clarification on applicability of methodology, tool, and/or standardized baseline

| Means of Project Verification | Applicability as per AMS-I. D version 18.0 | Verifier assessment |
|-------------------------------|---|---|
| | <p>1. This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass:</p> <p>a. Supplying electricity to a national or a regional grid; or</p> <p>b. Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling.</p> | <p>The project activity is a renewable energy project i.e., a wind power project which falls under applicability criteria option 1 b) the project owner has done a wheeling agreement/15/ with UGVCL to supply the electricity generated by wind power plant.</p> |
| | <p>2. This methodology is applicable to project activities that:</p> <p>a. Install a greenfield plant;</p> <p>b. Involve a capacity addition in (an) existing plant(s);</p> <p>c. Involve a retrofit of (an) existing plant(s);</p> <p>d. Involve a rehabilitation of (an) existing plant(s)/ unit(s); or</p> <p>e. Involve a replacement of (an) existing plant(s).</p> | <p>The project activity is a greenfield plant and it has verified with the commissioning certificates/13/. Hence, applied methodology can be applied to project activity.</p> |
| | <p>3. Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology:</p> <p>a. The project activity is implemented in an existing reservoir with no change in the volume of reservoir;</p> <p>b. The project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density of the project activity, as per definitions given in the project emissions section, is greater than 4 W/m².</p> <p>c. The project activity results in new reservoirs and the power</p> | <p>The project activity involves the installation of 2 MW WTG; hence, this criterion is not applicable.</p> |

| | | |
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| | density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m ² | |
| | 4. If the new unit has both renewable and non-renewable components (e.g., a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW. | The proposed project activity is 2 MW wind power project and it has been verified with the commissioning certificates/13/, technical specifications/12/. |
| | 5. Combined heat and power (co-generation) systems are not eligible under this category. | The project is a wind power project and thus, the criterion is not applicable to this project activity |
| | 6. In the case of project activities that involve the capacity addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct ⁶ from the existing units. | The proposed project is a greenfield 2 MW wind power project, i.e., the only component is a renewable power project below 15 MW, thus the criterion is not applicable to this project activity |
| | 7. In the case of retrofit or replacement, to qualify as a small-scale project, the total output of the retrofitted or replacement unit shall not exceed the limit of 15 MW. | The proposed project is a greenfield 2 MW wind power project, i.e., the only component is a renewable power project below 15 MW, thus the criterion is not applicable to this project activity |
| | 8. In the case of landfill gas, waste gas, wastewater treatment and agro-industries projects, recovered methane emissions are eligible under a relevant Type III category. If the recovered methane is used for electricity generation for supply to a grid, then the baseline for the electricity component shall be in accordance with procedure prescribed under this methodology. If the recovered methane is used for heat generation or cogeneration other applicable Type-I methodologies such as "AMS-I.C.: Thermal energy production with or | The proposed project is a greenfield 2 MW wind power project; hence, this criterion is not applicable to this project activity. |

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| | without electricity” shall be explored. | |
| | 9. In case biomass is sourced from dedicate plantations, the applicability criteria in the tool “Project emissions from cultivation of biomass” shall apply. | No biomass is involved, the project is only a wind power project and thus the criterion is not applicable to this project activity. |
| Findings | No finding was raised | |
| Conclusion | The verification team confirms that all the applicability criteria set by the applied CDM methodology/10/ and its eligible tools are met. The relevant information against those criteria is also included in the PCN/7/ and MR Ver. 2.0/20/. The selected CDM methodology for the project activity is applicable. | |

3.3.3 Project boundary, sources and GHGs

| | |
|--------------------------------------|---|
| Means of Project Verification | <p>As per the applied methodology AMS-I. D version 18.0/4/, the spatial extent of the project boundary includes industrial, commercial facilities consuming energy generated by the system.</p> <p>The project verification team conducted desk review of the implemented project to confirm the appropriateness of the project boundary identified and GHG sources required by the methodology have been included within the project boundary.</p> <p>The project location is clearly depicted with the help of a pictorial depiction in section A.3. of the PCN/7/ and duly verified by the project verification team via geographical coordinates, commissioning certificate/13/ of the project activity & wheeling agreement/15/.</p> |
| Findings | No finding was raised |
| Conclusion | <p>The project verification team was able to assess that complete information regarding the project boundary has been provided in PCN/7/ and MR /20/ and could be assured from the single line diagram/19/, commissioning certificate/13/, geographical coordinates and wheeling agreement/15/</p> <p>The components of the project boundary mentioned in the section B.4 of PCN/7/ were verified against the para 18 of the applied methodology.</p> <p>The project verification team conducted desk review of the implemented project to confirm the appropriateness of the project boundary identified and GHG sources required by the methodology have been included within the project boundary.</p> |

| | |
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| | The verification team has confirmed that the project boundary has included all the relevant source of GHG emission from the project activity. |
|--|---|

3.3.4 Baseline scenario

| | |
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| Means of Project Verification | The baseline scenario as per paragraph 19 of the applied methodology, prescribed the baseline scenario of the project activity. In the absence of the project activity, the users would have been supplied electricity from the national grid. As per paragraph 19 Baseline emissions for other systems are the product of amount electricity displaced with the electricity produced by the renewable generating unit and an emission factor from the available options of calculation of emission factor as mentioned in AMS-I.D /4/. |
| Findings | No findings raised. |
| Conclusion | <p>The project verification team concluded that the identified baseline scenario reasonably represents what would occur in the absence of the project activity.</p> <p>The calculated baseline emission for each vintage year of crediting period is rounded down as per UCR CoU verification standard /3/.</p> |

3.3.5 Estimation of emission reductions or net anthropogenic removal

| | |
|--------------------------------------|--|
| Means of Project Verification | <p>The project verification team checked whether the equations and parameters used to calculate GHG emission reductions or net anthropogenic GHG removals for PCN/7/ and MR/20/ is in accordance with applied methodology. Project Verification team checked section B.5 and C.5.1 of the PCN/7/ & MR /20/ respectively to confirm whether all formulae to calculate baseline emissions, project emission and leakage have been applied in line with the underlying methodology.</p> <p>The UCR recommends an emission factor of 0.9 tCO₂/MWh for the 2013 - 2020 years as a conservative estimate for Indian projects not previously verified under any GHG program. Also, for the vintage 2021, the combined margin emission factor calculated from the CEA database/5/ in India results in higher emissions than the default value. Hence, the same emission factor has been considered to calculate the emission reduction under a conservative approach.</p> <p>The emission reduction calculation has been done as per the CDM SSC methodology AMS-I.D, Version 18.0/4/.</p> $BE_y = EG_{BLy} \times EF_{CO_2,y}$ <p>Where,</p> |
|--------------------------------------|--|

| | <p>BE_y = Baseline Emissions in year y; tCO₂</p> <p>EG_{BLy}= Quantity of net electricity displaced as a result of the implementation of the CDM project activity in year y (MWh)</p> <p>$EF_{CO_2,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y.</p> <p>Project emissions:</p> <p>As per paragraph 25 of the applied methodology, For most renewable energy project activities, $PE_y = 0$. Since wind power is a GHG emission free source of energy project emission considered as Zero for the project activity</p> <p>Leakage Emissions:</p> <p>As per the paragraph 29 of the applied methodology AMS-I.D Version 18.0/4/, there are no emissions related to leakage in this project.</p> <p>Emission reductions</p> <p>As per Paragraph 30 of the applied methodology, emission reductions are calculated as follows</p> <p>$ER_y = BE_y - PE_y -LE_y$</p> <p>Where:</p> <p>ER_y = Emission reductions in year y (tCO₂e/y)</p> <p>BE_y = Baseline Emissions in year y (t CO₂e/y)</p> <p>PE_y = Project emissions in year y (t CO₂e/y)</p> <p>LE_y = Leakage emissions in year y (t CO₂e/y)</p> <table><tr><th>Year</th><th>Electricity generated (MWh)</th><th>Emission factor (tCO₂/MWh)</th><th>Total Emission reduction (tCO₂e)</th></tr><tr><td>2019</td><td>3,559.63</td><td>0.9</td><td>3,203</td></tr><tr><td>2020</td><td>3,737.69</td><td>0.9</td><td>3,363</td></tr><tr><td>2021</td><td>3,876.16</td><td>0.9</td><td>3,488</td></tr><tr><td colspan="3">Total</td><td>10,054</td></tr></table> | Year | Electricity generated (MWh) | Emission factor (tCO ₂ /MWh) | Total Emission reduction (tCO ₂ e) | 2019 | 3,559.63 | 0.9 | 3,203 | 2020 | 3,737.69 | 0.9 | 3,363 | 2021 | 3,876.16 | 0.9 | 3,488 | Total | | | 10,054 |
|------------|--|---|---|---|---|------|----------|-----|-------|------|----------|-----|-------|------|----------|-----|-------|-------|--|--|--------|
| Year | Electricity generated (MWh) | Emission factor (tCO ₂ /MWh) | Total Emission reduction (tCO ₂ e) | | | | | | | | | | | | | | | | | | |
| 2019 | 3,559.63 | 0.9 | 3,203 | | | | | | | | | | | | | | | | | | |
| 2020 | 3,737.69 | 0.9 | 3,363 | | | | | | | | | | | | | | | | | | |
| 2021 | 3,876.16 | 0.9 | 3,488 | | | | | | | | | | | | | | | | | | |
| Total | | | 10,054 | | | | | | | | | | | | | | | | | | |
| Findings | No findings were raised. | | | | | | | | | | | | | | | | | | | | |
| Conclusion | <p>The combined margin emission factor as per CEA database “CO₂ Baseline Database for the Indian Power Sector” current version 18, December 2022/5/ is 0.918 tCO₂/MWh which results into higher emission factor than the UCR recommended emission factor of 0.9 tCO₂/MWh; Hence for 2021 vintage UCR default emission factor remains conservative as per UCR General project eligibility criteria and guidance/2/.</p> <p>Project Verification team confirm that the algorithms and formulae proposed to calculate project emissions, baseline emissions, leakage and emission reductions in the PCN/7/ and MR ver. 2.0/20/</p> | | | | | | | | | | | | | | | | | | | | |

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| | <p>is in line with the requirements of the selected methodology AMS-I.D, version 18.0/4/</p> <p>For emission reduction calculation, the assessment team confirms that</p> <p>All assumptions and data used by the project participants are listed in the PCN/7/ and MR /20/ including their references and sources.</p> <p>All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PCN/7/ and MR /20/.</p> <p>The baseline methodology and the applicable tool(s) have been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions.</p> |
|--|--|

3.3.6 Monitoring Report

| | |
|--------------------------------------|--|
| Means of Project Verification | <p>The monitoring report/20/ submitted by the PP has been verified thoroughly and is in compliance with the applicable methodology and UCR General project eligibility criteria and guidance/2/ for the calculation of GHG emission reductions.</p> <p>As per section B.2 of the MR/20/, this project has avoided 10,054 tons of CO₂ emissions during this monitoring period.</p> <p>The assessment team has reviewed all the parameters in the monitoring plan against the requirements of the applied methodology and confirmed that monitoring parameters are applied in line with the requirement of the methodology and relevant in the context of the program. The procedures have been reviewed by the assessment team through document review, interviews with the respective monitoring personnel and site assessment. Monitoring methodology, data management and calibration of the energy meter were also discussed with project owner.</p> |
| Findings | No finding was raised. |
| Conclusion | <p>The project verification team confirms that,</p> <p>The monitoring report /20/ is in compliance with the applicable methodology and UCR General project eligibility criteria and guidance/2/.</p> <p>The monitoring parameters reported in PCN/7/ and MR Ver.1.0/8/ & Ver. 2.0/20/ adequately represents the parameters relevant to emission reduction calculation.</p> <p>The number of CoUs generation is calculated based on accurately reported data. The calculation was done using an excel sheet where all the parameters were reported.</p> <p>UCR recommended emission factor for electricity generation is opted which is conservative.</p> |

| | |
|--|---|
| | <p>The monitoring report Version 1.0/8/ & Version 2.0/20/ meets the requirements of UCR project verification requirements.</p> <p>The Project has the capability to address SDG 7 Affordable and Clean Energy, SDG 8 Decent Work and Economic Growth and SDG 13 Climate Action.</p> |
|--|---|

3.4 Start date, crediting period and duration

| | |
|--------------------------------------|---|
| Means of Project Verification | The Commissioning certificate/13/ of the installation of the project activity has been verified as per PCN/7/ and MR Ver. 1.0/8/ & Ver. 2.0/20/. |
| Findings | No findings raised. |
| Conclusion | <p>The expected lifetime of the project activity is 20 years which is verified by the technical specification/12/.</p> <p>Crediting period is from 28/03/2019 to 31/12/2021 which is appropriate as per UCR General project eligibility criteria and guidance/2/.</p> |

3.5 Environmental impacts and safeguard assessment

| | |
|--------------------------------------|--|
| Means of Project Verification | <p>As The guidelines on Environmental Impact Assessment have been published by Ministry of Environment, Forests and Climate Change (MoEF&CC), Government of India (GOI) under Environmental Impact Assessment notification January 2025.</p> <p>Further amendments to the notification have been done, The Wind Power projects up to 25 MW are listed in white category, hence, No EIA required.</p> <p>The impact of the project activity on the environmental safeguards has been carried out.</p> <p>Out of all the safeguards no risks were identified to the environment due to the project implementation and operation</p> <p>The following have been indicated as positive impacts:</p> <p>Environment Air - CO₂ emissions: The project activity being renewable power generation avoids CO₂ emissions that would have occurred in baseline scenario due to the electricity generation in thermal power plants.</p> <p>Environment - Natural Resources: Replacing fossil fuels with renewable sources of energy.</p> <p>Impacts identified as 'Harmless':</p> <p>Solid waste Pollution: - Any Solid-waste if generated from the plant shall be discarded in accordance with host country regulation. The parameter is being monitored as 'Project Waste' and Proper mitigation action has been implemented for waste management.</p> |
|--------------------------------------|--|

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|-------------------|--|
| | <p>Land use: since the wind power plant does not require larger area, there is no significant damage to land.</p> <p>Emission due to transportation of wind components: The emissions associated with the transport of the modules are insignificant compare to manufacturing facilities.</p> <p>Solid waste Pollution from end-of-life products equipment: - Waste generated from the plant.</p> |
| Findings | No findings raised. |
| Conclusion | The project activity displaces fossil fuel consumption and provides affordable and clean energy. The project has also avoided total 10,054 tCO ₂ e, hence it has positive impact. |

3.6 Project Owner- Identification and communication

| | |
|--------------------------------------|---|
| Means of Project Verification | <p>The information and contact details of the project owner has been appropriately incorporated in the PCN/7/ and MR Ver. 1.0/8/ & Ver. 2.0/20/ which was checked.</p> <p>The legal owner of the project activity has been identified through the commissioning certificates/13/ & Wheeling agreements/15/ issued by equipment suppliers.</p> |
| Findings | No findings raised. |
| Conclusion | The project verification team confirms that the legal ownership of the project belongs to M/S Vijay Mamra Pvt. Ltd. |

3.7 Others (DAA)

| | |
|--------------------------------------|---|
| Means of Project Verification | The verification team has referred other GHG programs to avoid double counting of emission reduction |
| Findings | CL 01 was raised |
| Conclusion | It was verified that the project is has not applied for registration and issuance elsewhere with the Avoidance of double accounting agreement/9/ provided stating not taking benefits of double counting. |

4 Internal quality control:

- Due professional care has been taken while reviewing the submitted document.
- There is no conflict of interest as the verifier has no other engagement with either the aggregator or project owner directly or indirectly.
- Verification team consists of experienced personnel.
- Technical review is performed by an independent person.

5 Project Verification opinion:

The project verification was conducted on the basis of UCR Program Manual/1/, UCR General project eligibility criteria and guidance/2/, UCR Verification standard /3/, AMS-I. D: Grid connected renewable electricity generation– Version 18.0/4/, Wheeling agreements/15/, Calibration Reports/14/, Commissioning Certificates/13/, Project Concept Note (PCN)/7/, Monitoring Report (MR) Version 1.0/8/ & Version 2.0/20/ and documents mentioned in Appendix-2.

Verification team raised 01 Nos. of Clarification Requests (CLs) and 00 Nos. of Corrective Actions Requests (CARs) and they were corrected, verified and closed satisfactorily.

It is hence certified with reasonable level of assurance that the emission reductions from the project 2 MW Small Scale Wind Power Project by M/S Vijay Mamra Pvt. Ltd. (UCR ID – 178) for the period 28/03/2019 to 31/12/2021 amounts to **10,054** CoUs (10,054 tCO₂e) as per the UCR Verification standard /3/.

6 Competence of team members and technical reviewers

| No. | Last name | First name | Role and Affiliation | Technical Competence |
|-----|-----------|------------|---------------------------|--|
| 1. | Joshi | Trapti | GHG Assessor - NSPL | Ms. Trapti Joshi is having M.Tech. In Environmental Engineering. She has experience in conducting environmental audits in CDM/VCS/GS registry. She has performed the Renewable sector and Waste handling projects. Also, she has done Master's thesis in Solid waste management project through LCA Gabi Software. |

Appendix 1: Abbreviations

| Abbreviations | Full texts |
|--------------------|---|
| UCR | Universal Carbon Registry |
| CPCB | Central Pollution Control Board |
| GERC | Gujarat Electricity Regulatory Commission |
| GEDA | Gujarat Energy Development Agency |
| GETCO | Gujarat Energy Transmission Corporation Limited |
| UGVCL | Uttar Gujarat Vij Company Limited. |
| CEA | Central Electricity Authority |
| NSPL | Naturelink Solutions Private Limited |
| MR | Monitoring report |
| PCN | Project Concept Note |
| VR | Verification Report |
| VS | Verification Statement |
| DAA | Avoidance of Double Accounting Agreement |
| COD | Commercial Operation Date |
| PO | Project Owner |
| PA/ PP | Project Aggregator / Project Proponent |
| PPA | Power Purchase Agreement |
| ER | Emission Reduction |
| CoUs | Carbon offset Units |
| tCO ₂ e | Tons of Carbon Dioxide Equivalent |
| kWh | Kilo-Watt Hour |
| MWh | Mega-Watt Hour |
| kW | Kilo-Watt |
| MW | Mega-Watt |
| CDM | Clean Development Mechanism |
| SDG | Sustainable Development Goal |
| VMPL | Vijay Mamra Private Limited |
| CAR | Corrective Action Request |
| CL | Clarification Request |
| FAR | Forward Action Request |
| GHG | Green House Gas |

Appendix 2: Document reviewed or referenced

| No. | Author | Title | References to the document | Provider |
|-----|------------|--|--|-------------|
| 1 | UCR | UCR Program Manual | Version 6.1, August 2024 | UCR website |
| 2 | UCR | UCR General project eligibility criteria and guidance (CoU Standard) | Version 7.0, August 2024 | UCR website |
| 3 | UCR | UCR Program Verification standard | Version 2.0, August 2022 | UCR website |
| 4 | CDM | AMS-I. D: Grid connected renewable electricity generation | Version 18.0 | CDM website |
| 5 | CEA | CO ₂ baseline database for the Indian Power sector | Version 18.0 dated December 2022 | - |
| 6 | CEA | Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2022 | Dated 28/02/2022 | - |
| 7 | Creduce | Project Concept Note | Version 1.0 dated 20/06/2022 | PA |
| 8 | Creduce | Monitoring report | Version 1.0 dated 16/04/2025 | PA |
| 9 | Creduce | Assurance to avoid double accounting by project owners | Double accounting agreement signed on 30/07/2024 | PA |
| 10 | PO | Single Line Diagram | - | PA |
| 11 | Creduce | Emission reduction excel – “2 MW Wind Power Project” | Version 2.0 dated 29/04/2025 | PA |
| 12 | GEDA | Technical specification of 2 MW wind farm capacity | - | PA |
| 13 | GEDA | Project Commissioning certificates | Dated 28/03/2019 | PA |
| 14 | PO | Windmill Project Report | - | PA |
| 15 | UGVCL & PO | Wheeling agreement for captive use | Dated 25/03/2019 | PA |
| 16 | PA | Communication agreement between PP and PO | Dated 23/12/2020 | PA |

| | | | | |
|----|---------|--|---------------------------------|----|
| 17 | PO | Installation Certificate | - | PA |
| 18 | GETCO | Joint Meter Reading (JMR) Certificate | - | PA |
| 19 | PO | Supply agreement of WTG | Dated 08/01/2019 | PA |
| 20 | Creduce | Monitoring report | Version 2.0 dated 29/04/2025 | PA |

Appendix 3: Clarification request, corrective action request and forward action request

Table 1. CLs from this Project Verification

| CL ID | 01 | Section no.: 3.7 | Others (Double counting of credits) | Date: 17/04/2025 |
|---|----|------------------|-------------------------------------|------------------|
| Description of CL | | | | |
| Under the Section C.3 of the MR V1.0 dated 19/04/2025, PP shall provide Declaration document stating that the project activity will not participate in other GHG program which causes double counting for the current first monitoring period 28/03/2019 to 31/12/2021 as per requirement of clause 1.8, Universal Carbon Registry Program Manual (Ver 6.1) August 2024 and the UCR CoU Standard version 7.0. | | | | |
| Project Owner's response | | | | Date: 22/04/2025 |
| Double Counting Declaration stating that the project activity will not participate in other GHG program which causes double counting for the current monitoring period 28/03/2019 to 31/12/2021 has been submitted to the Assessment team. | | | | |
| Documentation provided by Project Owner | | | | |
| Double Counting Declaration for not participating in the other GHG Program | | | | |
| UCR Project Verifier assessment | | | | Date: 23/04/2025 |
| Assessment team found that Double Counting Declaration dated 30/07/2024 will not participate in other GHG program which causes double counting for the current monitoring period 28/03/2019 to 31/12/2021. Also, it is found correct as per requirement of clause 1.8, Universal Carbon Registry Program Manual (Ver 6.1) August 2024 and the UCR CoU Standard version 7.0. | | | | |
| Thus, CL 01 is Closed. | | | | |

Table 2. CARs from this Project Verification

| CAR ID | -- | Section no. | | Date: |
|--|----|-------------|--|-------|
| Description of CAR | | | | |
| Project Owner's response | | | | Date: |
| Documentation provided by Project Owner | | | | |

Table 3. FARs from this Project Verification

| FAR ID | -- | Section no. | | Date: |
|--|----|-------------|--|-------|
| Description of FAR | | | | |
| Project Owner's response | | | | Date: |
| Documentation provided by Project Owner | | | | |

Photographs of the Remote inspection conducted on 19/04/2025

