



Verification Report

UCR ID: 484

Prepared by



Naturelink Solutions Pvt. Ltd.

Title	3.99 MW Hybrid Project by Shreeji Coke and Energy Pvt. Ltd.
Project Owner	M/s. Shreeji Coke and Energy Pvt. Ltd.
Project Location	2.1 MW Wind power project location: Taluka: Khamba , Dist.: Amreli, Gujarat, India. Coordinates: 21°02'36.1"N 71°19'04.1"E 1.89 MW (DC) Solar power project location: Taluka: Savar Kundla, Dist.: Amreli, Gujarat, India. Coordinates: 21°06'45.1"N 71°22'02.0"E
Date	03/05/2025

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	03/05/2025
Title of the project activity	3.99 MW Hybrid Project by Shreeji Coke and Energy Pvt. Ltd.
Project reference no. (as provided by UCR Program)	484
Name of Entity requesting verification service	M/s. Creduce Technologies Private Limited (Aggregator) M/s. Shreeji Coke and Energy Pvt. Ltd. (Project Proponent)
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	Mr. Shailendra Singh Rao (Creduce Technologies Pvt. Ltd.) Mobile: +91-9016850742 Address: 2-O-13,14 Housing Board Colony, Banswara, Rajasthan - 327001, India.
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 "3.99 MW Hybrid Project by Shreeji Coke and Energy Pvt. Ltd."</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. <input checked="" type="checkbox"/> The project activity is likely to generate GHG emission reductions amounting to the estimated 12,478 tCO ₂ e, as indicated in the monitoring report Ver.1/8/ & Ver.2/20/,


	<p>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	<p>Verification Report UCR</p> <p>UCR ID: 484</p> <p>Version: 1.0</p> <p>Date: 03/05/2025</p>
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	 <p>Ms. Trapti Joshi GHG Assessor Naturelink Solution Pvt. Ltd. Date: 03/05/2025</p>

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1. Project Verification Report

1.1 Executive Summary

The verification work has been contracted by project aggregator Creduce Technologies Pvt Ltd to perform an independent verification of its UCR project titled “**3.99 MW Hybrid Project by Shreeji Coke and Energy Pvt. Ltd.**” UCR approved project ID:484, to establish a number of CoUs generated by the project over the crediting period from 01/05/2023 to 31/12/2024 (both days included).

Verification for the period: 01/05/2023 to 31/12/2024

In our opinion, the total GHG emission reductions over the crediting/verification period stated in the Monitoring Report (MR) Version 2.0/20/, 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 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 inspection of the plant and submission of documents for verification through emails.

It is certified that the emission reductions from the “3.99 MW Hybrid Project by Shreeji Coke and Energy Pvt. Ltd. (UCR ID – 484) for the period 01/05/2023 to 31/12/2024 amounts to **12,478 CoUs (12,478 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.
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 activity is a renewable power generation initiative incorporating the installation and operation of 3.99 MW Wind & Solar Hybrid Power Project, developed by M/s Shreeji Coke and Energy Pvt. Ltd. The project is located in the state of Gujarat, India, and consists of 2.1 MW wind power plant installed at Khamba, Amreli, and 1.89 MW ground-mounted solar photovoltaic (PV) plant at Savar Kundla. The project was commissioned on 01/05/2023 under the Gujarat Energy Development Agency (GEDA), Government of Gujarat.

Technical details for Wind & Solar Hybrid Power Project installed at Amreli district are as follows:

For WTGs installed in Gujarat with a capacity of 2.1 MW:

Location No :59	Make: Suzlon
Capacity: 2100KW	Model No: S120DFIG2.1MW
Sr. No: MH5217C22206	Rotor Dia: 120METERS
Hub Height: 140 Meters	Blades: Suzlon SB59
Swept Area: 11,225 m ²	Maximum Rotor Speed: 14.5 U/min
Generator Type: A Synchronous Slip Ring Synchronous Generator.	Frequency: 50 Hz
Generator Speed: 1300 U/min	Voltage: 690V
Tower Type: Steel Tubular, Hybrid Lattice	Operating Data:
Rated Power: 2.1MW	Wind Class: IEC S
Cut In Wind Speed: 3 M/Sec	Rated Wind Speed: 9.5 m/Sec
Cut Out Wind Speed: 26.1 m/Sec (3-second average)	18 m/Sec (10-minute average)
Transformer:	Make: Suzlon
Capacity: 2400 KVA	Sr. No: S X AD/0169
Voltage Ratio: 33/0.690 KV	HT Breaker:
Make: POPULAR-ABB	Capacity: 1250 AMP,36KV

Technical details for Solar Power System are as follows:

Plant Capacity: 1320 KW	SOLAR PV CELLS
Make: Goldi	Capacity: 540 Wp
Total No. Of Modules 3500	Total Capacity (KWp): 1890
Inverters:	Make: Solis

Capacity: 220 KW	No. of Inverters: 6
Transformer:	Make: Telwane
Capacity: 1400 KVA	Voltage Ratio: 33/0.800 KV
Sr. NO: TPE-7565	HT BREAKER:
Make: TRICOLITE-ABB	Capacity: 1250 AMP
Voltage: 36 KV	Sr. NO: 1VYN020223000139

As mentioned in the Monitoring report and emission reduction calculation sheet submitted for the verification, the project replaces anthropogenic emissions of greenhouse gases (GHGs) estimated to be approximately 12,478 tCO₂e for the said period under verification, there on displacing 1,53,63.167 MWh amount of electricity from the generation mix of power plants connected to the Indian electricity grid, which is mainly dominated by the fossil-fuel based power plant.

The project activity is a grid connected renewable energy generation project having capacity of less than 15 MW. The project is a small-scale activity. The methodology applied in the monitoring report is verified against the A.M.S I. D “Grid connected renewable electricity generation” version 18.0.

Verified 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	
Start date of this Monitoring Period	01/05/2023
Carbon credits claimed up to	31/12/2024
Total ERs generated (tCO ₂ e)	12,478
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/10/, Applied Methodology - AMS.I. D/4/.
- A cross-check between information provided in the monitoring report/08/20/ and data from other sources such as Joint Meter Reading of electricity generated by WTGs and Solar power plant/18/ 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 17/02/2025 at project locations as mentioned in the below table.

Date of Remote inspection:		17/02/2025		
No.	Activity performed On-Site	Site location	Date	Project Personnel
1.	Opening meeting	Project location	17/02/2025	Mr. M. Venkata Madhava, Manager
2.	Remote inspection of all installation	Project location	17/02/2025	Mr. M. Venkata Madhava, Manager Ms. Kashyap Trivedi – Senior Consultant, CTPL
3.	Closing meeting	Project location	17/02/2025	Mr. M. Venkata Madhava, Manager Ms. 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/ & MR Version 2.0/20/;
- 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 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.	Madhava	M. Venkata	Manager	17/02/2025	Legal ownership of the project, Implementation of the project, start date and crediting period, Double counting of the carbon credits, Monitoring Plan
					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
2.	Trivedi	Kashyap	Senior Consultant – Creduce Technologies Pvt. Ltd.	17/02/2025	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	01	NIL
Application and selection of methodologies and standardized baselines	--	--	--
<ul style="list-style-type: none"> Application of methodologies and standardized baselines 	NIL	NIL	NIL
<ul style="list-style-type: none"> Deviation from methodology and/or methodological tool 	NIL	NIL	NIL
<ul style="list-style-type: none"> Clarification on applicability of methodology, tool and/or standardized baseline 	NIL	NIL	NIL
<ul style="list-style-type: none"> Project boundary, sources and GHGs 	NIL	NIL	NIL
<ul style="list-style-type: none"> Baseline scenario 	NIL	NIL	NIL
<ul style="list-style-type: none"> Estimation of emission reductions or net anthropogenic removals 	NIL	NIL	NIL
<ul style="list-style-type: none"> 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)	NIL	01	NIL
Total	NIL	02	NIL

3 Project Verification findings

3.1 Identification and eligibility of project type

Means of Project Verification	<p>The project activity involves setting up of a new WTG and Solar power plant to harness the wind and Solar energy respectively. 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 and Solar (a renewable source) to generate electricity. Wheeling Agreement is signed between PGVCL and PP. The project also delivers real, measurable and additional emission reduction of 12,478 tCO₂e over the crediting period.</p> <p>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 raised
Conclusion	<p>The project is eligible as per the requirements of the UCR project Standard, Version 7.0 (Project Eligibility, Registration, Issuance and Registry Guidance Document)/2/.</p> <p>Further project verification team cross checked the other GHG programmes like Clean Development Mechanism (CDM) Registry, VERRA Registry, Gold Standard (GS) Registry, and voluntary non-GHG Programs like I-REC Renewable Energy Certificate (REC) Mechanism in India 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>This project activity with title under UCR “3.99 MW Hybrid Project by Shreeji Coke and Energy Pvt. Ltd.” in Gujarat is a grid-connected renewable power generation activity which installation and operation of a WTG having capacity of 2.1 MW manufactured and supplied by Suzlon global Energy Limited and a Solar plant having capacity of 1.89 MW manufactured and supplied by Goldi Solar Pvt. Ltd. in the Gujarat State in India with aggregated installed capacity 3.99 MW</p>
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	<p>hybrid project. 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) and utilize solar energy to generate electricity. Wheeling Agreement/15/ is signed between PGVCL and PP. The project activity has been helping in greenhouse gas (GHG) emission reduction by using renewable resources (wind and solar 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>A Supervisory Control & Data Acquisition System (SCADA) provides a graphical representation of data providing ease to understand the behavior of WTG, long time data storage facility, access to daily generation report and power curve related information & helps to analyze the problem with graphical tools offline as well as online.</p> <p>The purpose of the project activity is to utilize clean technology that harnesses wind kinetic energy and solar 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/11/ provided by the project owner.</p>
Findings	CAR 01 was raised and closed successfully
Conclusion	The description of the project activity is verified to be true based on the review of PCN/7/, MR Ver. 2.0/20/ 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

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</p>
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	generation sources into the grid” which is as per the project activity and clearly mentioned in PCN/7/ and MR Ver.2/20/.
Findings	No finding 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 and Solar power project which falls under applicability criteria option 1 b) the project owner has done a Wheeling Agreement/15/ with PGVCL to supply the electricity generated by wind power plant.</p> <p>This was confirmed during the online assessment and through document review of Wheeling Agreement/15/ and Energy generation certificates /18/.</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 is green field plant and involves installation and generation of electricity from a WTG having capacity of 2.1 MW manufactured and supplied by Suzlon global Energy Limited and a ground-mounted solar photovoltaic (PV) plant having capacity of 1.89 MW manufactured and supplied by Goldi Solar Pvt. Ltd. in the Gujarat State in India with aggregated installed capacity 3.99 MW hybrid project.</p> <p>The electricity generated from project activity is exported to the Indian national grid, there by displacing electricity from the grid which would have otherwise been generated by operation of grid connected power plants and by addition of new generation sources</p>

		into the grid. The project activity generates 1,53,63,167 MWh of electricity and displaces 12,478 tCO ₂ e.
	<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 density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m²</p>	The project activity involves the installation of WTG and Solar power System; hence, this criterion is not applicable.
	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 project is a 3.99 MW Hybrid 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.
	5. Combined heat and power (co-generation) systems are not eligible under this category.	The project is a hybrid 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 project is a greenfield 3.99 MW Hybrid Power Project of Wind and Solar, 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	This project is a greenfield 3.99 MW hybrid power project, i.e., the

	small-scale project, the total output of the retrofitted or replacement unit shall not exceed the limit of 15 MW.	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 without electricity” shall be explored.	This project is a greenfield 3.99 MW hybrid power project; hence, this criterion is not applicable to this project activity.
	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 findings raised	
Conclusion	The verification team confirms that all the applicability criteria set by the applied CDM methodology/04/ 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. The components of the project boundary mentioned in the section B.4 of PCN/9/ 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 project location is clearly depicted with the help of a pictorial depiction in section A.3. of the PCN/07/ and duly verified by the project verification team via geographical coordinates, commissioning certificate/13/ of the project activity & Wheeling Agreement/15/ between PP and PGVCL.
Findings	No findings 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 Ver. 2.0/20/ 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> <p>The project verification team confirms that the identified boundary, selected emissions sources are justified for the project activity.</p>

3.3.4 Baseline scenario

Means of Project Verification	<p>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.</p> <p>As per the UCR General project eligibility criteria and guidance/2/; “The project owner has opted UCR recommended emission factor of 0.9 tCO₂/MWh for the 2023 year as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Also, for the vintage 2024, the combined margin emission factor calculated from CEA database in India results into emission factors of 0.757 as a fairly conservative estimate. Emission factors of 0.9 for the post 2020 period is to be selected as the most conservative estimate between the national electricity/power authority published data set and UCR default of 0.9 tCO₂/MWh for the year 2023 and 0.757 for the year 2024 has been considered to calculate the emission reduction”.</p>
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>
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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 Ver.2.0/20/ is in accordance with applied methodology. Project Verification team checked section B.5 and C.5.1 of the PCN/7/ & MR Ver.2.0/20/ 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 emission reduction calculation has been carried out as per the CDM SSC methodology AMS-I. D, Version 18.0/4/.</p> $BE_y = EG_{PJ,y} \times EF_{grid,y}$ <p>Where:</p> <p>BE_y = Baseline emissions in year y (tCO₂)</p> <p>$EG_{PJ,y}$ = Quantity of net electricity displaced as a result of the implementation of the CDM project activity in year y (MWh)</p> <p>$EF_{grid,y}$ = UCR recommended emission factor of 0.9 tCO₂/MWh has been considered for year 2023. (Reference: General Project Eligibility Criteria and Guidance, UCR Standard, page 4)</p> <p>$EF_{grid,y}$ = UCR recommended emission factor of 0.757 tCO₂/MWh has been considered for year (2024). (Reference: General Project Eligibility Criteria and 4)</p> <p>Project emissions:</p> <p>As per paragraph 39 of the applied methodology, For most renewable energy project activities, $PE_y = 0$. Since Wind and Solar power is a GHG emission free source of energy project emission considered as Zero for the project activity</p> <p>Leakage Emissions:</p>
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	<p>As per the paragraph 42 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 43, Equation 09 of the applied methodology, emission reductions are calculated as follows</p> $ER_y = BE_y - PE_y - LE_y$ <p>Where:</p> <p>ER_y = Emission reductions in year y (tCO₂)</p> <p>BE_y = Baseline Emissions in year y (tCO₂)</p> <p>PE_y = Project emissions in year y (tCO₂)</p> <p>LE_y = Leakage emissions in year y (tCO₂)</p> <table><tr><th colspan="4">Baseline Emissions Calculation</th></tr><tr><th>Year</th><th>EG_{py} (MWh)</th><th>EF_{grid,y}</th><th>BE_y</th></tr><tr><td>2023</td><td>59,38,233</td><td>0.9</td><td>5,344</td></tr><tr><td>2024</td><td>94,24,934</td><td>0.757</td><td>7,134</td></tr><tr><td colspan="3">BE (tCO₂e) from 2023 to 2024</td><td>12,478</td></tr></table>	Baseline Emissions Calculation				Year	EG _{py} (MWh)	EF _{grid,y}	BE _y	2023	59,38,233	0.9	5,344	2024	94,24,934	0.757	7,134	BE (tCO ₂ e) from 2023 to 2024			12,478
Baseline Emissions Calculation																					
Year	EG _{py} (MWh)	EF _{grid,y}	BE _y																		
2023	59,38,233	0.9	5,344																		
2024	94,24,934	0.757	7,134																		
BE (tCO ₂ e) from 2023 to 2024			12,478																		
Findings	No findings raised																				
Conclusion	<p>The UCR recommends an emission factor of 0.9 tCO₂/MWh for the 2014-2020 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. However, the emission factor of 0.9 tCO₂/MWh for the year 2023 as the most conservative estimate between the national electricity/power authority published dataset and the UCR default of 0.9 tCO₂/MWh ‘as per the UCR standard version 7.0/2/.</p> <p>Also, for the vintage 2024, the combined margin emission factor calculated from CEA database in India results into emission factors of 0.757 as a fairly conservative estimate.</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 Version 2.0/20/ 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 all assumptions and data used by the project participants are listed in the PCN/7/ and MR Version 2.0/20/ 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 Version 2.0/20/.</p>																				

	The baseline methodology and the applicable tool(s) have been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions.
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3.3.6 Monitoring Report

Means of Project Verification	<p>The monitoring report Version 2.0/20/ 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 calculation of GHG emission reductions.</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 online remote assessment. Monitoring methodology, data management and calibration of the energy meter were also discussed with project owner.</p> <p>Meter installed at each WTG are shown below.</p> <p>2.1 MW WTGs:</p>  <p>1.89 MW Solar (DC):</p>
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Energy meter Details:

Project type	Meter No.	Make	Class	Calibration Date
Wind	GJ6500B	Secure	0.2s	11/01/2023
Solar	GJ6503B	Secure	0.2s	11/01/2023

Findings	No findings raised
Conclusion	<p>The project verification team confirms that,</p> <p>The monitoring report Version 1.0/8/ & Version 2.0/20/ 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.2.0/20/ adequately represents the parameters relevant to emission reduction calculation.</p> <p>The calibration reports/14/ ensures the accuracy of the data reported.</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 2.0/20/ meets the requirements of UCR project verification requirements.</p>
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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.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/11/.</p> <p>Crediting period is from 01/05/2023 to 31/12/2024 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 and Solar Power projects which 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>And 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 and Solar power plant does not require larger area, there is no significant damage to land.</p> <p>Emission due to transportation of Wind and Solar power plant components: The emissions associated with the transport of the modules are insignificant compare to manufacturing facilities.</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 12,478 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. 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 Shreeji Coke and Energy Pvt. Ltd..

3.7 Others (Double Counting of Credits)

Means of Project Verification	<p>The project activity was searched on other GHG programs to ensure that project is not registered in any other GHG programs like CDM, VERRA, Gold standard, GCC Registries.</p> <p>An agreement stating that project activity will not cause double counting of the credits is also checked as per clause 1.8, Universal Carbon Registry Program Manual (Ver 6.1) August 2024/1/.</p>
Findings	CAR 02 was raised and closed successfully.
Conclusion	Double accounting agreement/8/ is signed between PO and Aggregator and found to appropriate as per clause 1.8, Universal Carbon Registry Program Manual (Ver 6.1) August 2024/1/.

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 2.0/20/ and documents mentioned in Appendix-2.

Verification team raised 00 Nos. of Clarification Requests (CLs) and 02 Nos. of Corrective Actions Requests (CARs) and they were corrected, verified and closed satisfactorily.

It is certified with reasonable level of assurance that the emission reductions from the project 3.99 MW Hybrid Project by Shreeji Coke and Energy Pvt. Ltd. (UCR ID – 484) for the period 01/05/2023 to 31/12/2024 amounts to **12,478** CoUs (12,478 tCO₂e).

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

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 CoU Standard (General project eligibility criteria and guidance	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 20.0 dated December 2024	-
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 30/12/2024	PA
8	Creduce	Monitoring report for current monitoring period	Version 2.0 dated 17/02/2025	PA
9	Creduce	Assurance to avoid double accounting by project owners	Double accounting agreement signed on 06/04/2025	PA
10	Creduce	Emission reduction excel – “3.99 MW hybrid (solar and wind) Power Project”	Version 2.0 dated 17/02/2025	PA
11	GEDA	Technical specification of 3.99 MW hybrid (solar and wind) Power Project	-	PA
12	CPCB	CPCB	CPCB letter F.No. B-29012/IPC-VI/2017-18/ date 17/11/2017	-
13	GEDA	Project Commissioning certificates on 01/05/2023	Dated 15/05/2023	PA
14	Hi-Tech Laboratory, Rajkot	Calibration reports: Meter no.: GJ6500B (Wind)	Dated 11/01/2023	PA

		Meter no.: GJ6503B (Solar)		
15	PGVCL & PO	Wheeling Agreement	-	PA
16	PA	Communication agreement between PP and PO	Dated 01/05/2023	PA
17	Creduce	Ownership of Carbon Credits & I-REC	Dated 26/02/2024	PA
18	GETCO	Energy Generation Certificates/	-	PA
19	PO	Single Line Diagram	-	PA
20	Creduce	Monitoring report	Version 2.0 dated 01/01/2025	PA

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

Table 1. CLs from this Project Verification

CL ID	..	Section no.:		Date:
Description of CL				
Project Owner's response				Date:
Documentation provided by Project Owner				
UCR Project Verifier assessment				Date:

Table 2. CARs from this Project Verification

CAR ID	01	Section no.: 3.2	General description of project activity	Date: 17/02/2025
Description of CAR				
<ol style="list-style-type: none"> Under the cover page of the Monitoring report version 01 dated 15/02/2024, Title of the project activity is not in line with the UCR web-site and registered PCN.PP requested to correct the title of the project as per the MR Template guidelines. Under the Section A.1.3 of the MR: <ul style="list-style-type: none"> Start date of the Crediting period is not in line with the registered PCN as per the UCR Standard version 07.0. Kindly revise the Crediting period date. Total ERs generated during the current monitoring period are found missing as per the MR Template guidelines. 				
Project Owner's response				Date: 19/02/2025
<ol style="list-style-type: none"> Title of the project activity is now updated which in line with the UCR web-site and registered PCN as the MR Template guidelines. Under the Section A.1.3 of the MR: <ul style="list-style-type: none"> Start date of the Crediting period is now updated which is now in line with the registered PCN as per the UCR Standard version 07.0. Total ERs generated during the current monitoring period are updated as per the MR Template guidelines. 				
Documentation provided by Project Owner				
MR version 2.0 dated				
UCR Project Verifier assessment				Date: 22/02/2025

1. The Project Participant (PP) has updated the title of the project activity in the Monitoring Report (Version 02, dated 17/02/2024) in accordance with the UCR website and the registered PCN, as per the MR Template guidelines. The correction has been reviewed and found to be correct.
2. Under Section A.1.3 of the Monitoring Report (MR):
 - The start date of the crediting period has been updated and is now in line with the registered PCN, in accordance with the UCR Standard Version 07.0.
 - The total ERs generated during the current monitoring period have been incorporated as per the MR Template guidelines which is in line the provided ER sheet.

The corrections have been reviewed and found to be appropriate.

Thus, CAR 01 is Closed.

CAR ID	02	Section no.:	3.7	Others (Double counting of credits)		Date:	17/02/2025
Description of CAR							
Document stating that the project activity will not cause double counting is not available as per requirement of clause 1.8, Universal Carbon Registry Program Manual (Ver 4.0) August 2022.							
Project Owner's response						Date:	19/02/2025
Double accounting agreement is provided.							
Documentation provided by Project Owner							
Double accounting agreement							
UCR Project Verifier assessment						Date:	22/02/2025
Double accounting agreement is checked and found to be conforming as per clause 1.8, Universal Carbon Registry Program Manual (Ver 4.0) August 2022.							
Thus, CAR 02 is closed							

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 of the project activity





Solar project site





