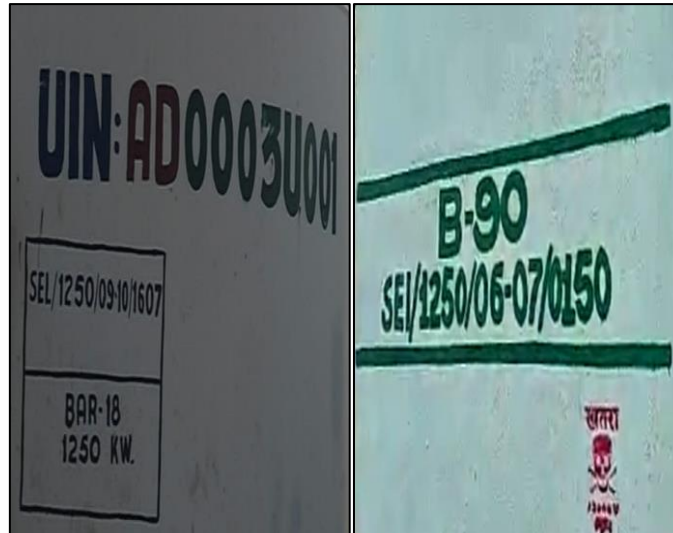


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Verification Report UCR ID: 224



Title	2.5 MW Bundled Small Scale Wind Power Project by M/s Investment & Precision Castings Limited.
Project Proponent	M/s Investment & Precision Castings Limited
Project Location	WTG - B90 - 21°51'38.4"N 69°19'45.6"E WTG - BAR18 - 22°11'03.6"N 69°00'34.9"E
Verified By	Mr. Shardul Amin, Lead Verifier, Email: audit@thenaturelink.in , Contact: +91- 7574804497, Naturelink Solutions Pvt. Ltd.
Date	15/03/2023

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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	15/03/2023
Title of the project activity	2.5 MW Bundled Small Scale Wind Power Project by M/s Investment & Precision Castings Limited.
Project reference no. (as provided by UCR Program)	224
Name of Entity requesting verification service	Creduce Technologies Private Limited (Aggregator)
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	Shailendra Singh Rao 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
Project Verification Criteria:	<input checked="" type="checkbox"/> UCR Verification Standard


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Mandatory requirements to be assessed	<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 “2.5 MW Bundled Small Scale Wind Power Project by M/s Investment & Precision Castings Limited.”</p> <input checked="" type="checkbox"/> The project aggregator has correctly described the project activity in the Project Concept Note (dated 07/09/2022) including the applicability of the approved methodology A.M.S I. D 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

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	<p>estimated 29810 tCO₂e, as indicated in the monitoring report, 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>Project ID: 224</p> <p>Date: 15/03/2023</p>
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	<p></p> <p>Mr. Shardul Amin Lead Verifier Naturelink Solution Pvt. Ltd. Date: 15/03/2023</p>

Project Verification Report

A. 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 “**2.5 MW Bundled Small Scale Wind Power Project by M/s Investment & Precision Castings Limited, UCR approved project ID:224**”, to establish a number of CoUs generated by the project over the crediting period from 01/01/2013 to 31/12/2021 (both days included).

Verification for the period: 01/01/2013 to 31/12/2021

In my opinion, the total GHG emission reductions over the crediting/verification period stated in the Monitoring Report (MR), submitted to me are found to be correct and in line with the UCR guidelines. 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). As per the UCR guidelines, the verification was done remotely by way of video calls, phone calls, and submission of documents for verification through emails.

I am able to certify that the emission reductions from the 2.5 MW Bundled Small Scale Wind Power Project by M/s Investment & Precision Castings Limited. (UCR ID – 224) for the period 01/01/2013 to 31/12/2021 amounts to **29810** CoUs (**29810** tCO₂e).

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. The quality of data management and records of underlying data;
2. Completeness and accuracy of calculations and baseline emission reports;
3. Proper inclusion and documentation of all project locations,
4. Correct application of offset rules for filling Baseline Period data gaps;
5. Other data, methods, and procedures deemed necessary to establish the accuracy of emission reductions.
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 verification guidance document, UCR Standard, UCR Program Manual, and related rules and guidelines. 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 present assignment and project is deemed validated post-registration by UCR.

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Description of the Project

The project activity is a renewable power generation activity which incorporates installation and operation of a wind turbine generator (WTG) having aggregate capacity of 2.5 MW manufactured and supplied by Suzlon Energy The details of the project activity are verified with the project report copy submitted for verification.

WTG	WTG Loc No	Latitude and Longitude	Village	District
1.25 MW	B90	21°51'38.4"N 69°19'45.6"E	Lamba	Jamnagar
1.25 MW	BAR 18	22°11'03.6"N 69°00'34.9"E	Baradiya	Jamnagar

The technical specification is listed below;

Turbine model	Suzlon S-64
Rated power	1250 kW
Rotor diameter	64 m
Hub height	56.5 m (Concrete)
Main frame type	Cast box frame
Main frame material	EN-GJS-400-18U-LTY
wind speed start	3.5 m/s
Re start point after high wind stop	20 m/s
Rated speed	14 m/s
Wind speed stop	25 m/s
Extreme Wind speed	42.5 m/s
Survival wind speed	59.5 m/s
Tip speed at rated power	68 m/s
Rated rotational speed	20.3 rpm
Blade length	31 m
Synchronous Speed	1000/1500 rpm
Rated power	250/1250 kW
Frequency	50 Hz
Orientation	Upwind
Gear Box type	Gear Less
Generator Type	Synchronous generator

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Breaking	Aerodynamic
No of Blades	3
Yaw bearing type	Slide bearing with gear ring & automatic greasing system
Blade Material	Fiber Glass Epoxy reinforced
Rated Voltage	690 V AC
Yaw system	Active Yawing with 4 electric yaw drives with brake motor and friction bearing
Wind turbine cut-in system	Soft- starters using thyristors
Tower height	54 m

Technical details for the machine installed at Baradiya with a capacity of 1.25 MW Machine manufactured by Suzlon Energy Ltd. are as follows:

Turbine model	Suzlon S-66
Rated power	1250 kW
Cut- in wind speed	3m/s
Rated Wind speed	14 m/s
Cut – off wind speed	22m/s
Survival wind speed	52.5 m/s
Rotor type	3 blades, upwind/Horizontal axis
Diameter	66m
Rotational speed at rated power	13.5 to 20.3 m
Rotor Blade material	Epoxy bonded fiber glass
Power regulation	Active pitch regulated
Generator type	Dual speed induction generator(asynchronous)
Speed at rate power	1006/1506 rpm
Rated voltage	690 V AC
Frequency	50 Hz
Generator insulation	Class H
Cooling system	Air Cooled
Tower height	54 m/63m/72 m (variable as per requirement)
Yaw system type	Active electric yaw motor
Yaw bearing	Polyamide slide bearing with gear ring & automatic greasing system

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As mentioned in the monitoring report and emission reduction calculation sheet submitted for verification, the project replaces anthropogenic emissions of greenhouse gases (GHGs) estimated to be approximately **29810 tCO₂e** for the said period under verification, there on displacing **33128 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 a 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	01/01/2013
Carbon credits claimed up to	31/12/2021
Total ERs generated (tCO ₂ e)	29810 tCO₂e
Leakage Emission	0
Project Emission	0

B. Project Verification team, technical reviewer and approver:

Sr. No	Role	Last name	First name	Affiliation	Involvement in		
					Doc review	Off-Site inspection	Interviews
1.	Lead Verifier & Technical Expert	Amin	Shardul	Lead Verifier, Naturelink Solutions Pvt Ltd.	Yes	No	Yes

C. Means of Project Verification

C.1 Desk/document review

The project documents submitted to UCR-approved verifier Naturelink Solution Pvt. Ltd. were reviewed and verified by the lead verifier. The documents reviewed involves verification of the legal status of individual project owner for consistency, project-related documents like installation and commissioning of equipment used in project activity, environmental clearances from state or central pollution control board, monitoring related equipment/measuring instruments and their calibration records, to establish the running of equipment for the crediting period, etc.

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The PCN is made available to the verifier post approval by UCR which is considered as validated documents and the content of validated PCN is considered as record wherever required. Further, the communication agreement made between the project owner and project aggregator is a document of the UCR registry hence the project aggregator is treated as an authorized representative of the project owner. All the documents submitted by the project aggregator to the verifier are treated as documents submitted on behalf of the project owner.

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

C.2 On-Site inspection- Not applicable.

Date of off-site inspection: DD/MM/YYYY to DD/MM/YYYY	Not applicable as per UCR guideline site visit not conducted for this verification activity.		
No.	Activity performed Off-Site	Site location	Date

C.3 Interviews: Telephonic and mail.

As per UCR guideline, the site visit was not conducted during the course of verification and only interviews are conducted.

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Shah	Haresh	Manager, Investment & Precision Castings Limited	24/02/2023, 13/02/2023	Meter calibration, project activities, and overview, DAA

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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	1	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 (please specify)	NIL	NIL	NIL
Total	NIL	1	NIL

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D. Project Verification findings

D.1 Identification and eligibility of project type

Means of Project Verification	The project has taken the reference of CDM methodology AMS-I D, version 18 Grid Connected Renewable Electricity Generation.
Findings	<ol style="list-style-type: none">1. Project activity is described through UCR-approved PCN.2. UCR project communication agreement clearly defines the Project Proponent and Project Aggregator.
Conclusion	<p>The UCR-approved format is used for description and the project meets the requirement of the UCR verification standard and UCR project standard.</p> <p>UCR project communication agreement was submitted to the verifier and the same has been verified. Methodology referenced and applied appropriately describing the project type. The eligibility of the project aggregator is verified using the UCR communication agreement, Project correctly applies the verification standard, UCR project standard, and UCR regulations.</p> <p>The project activity is overall meeting the requirements of the UCR Verification standard and UCR project standard.</p>

D.2 General description of project activity

Means of Project Verification	The project activity involves the operation of two wind turbines of 1.25 MW each of small-scale wind power project and its commissioning date was verified through the commissioning certificate of the project. The power evacuation at the substation is confirmed by the Certificate for Share of Electricity.
Findings	<ol style="list-style-type: none">1. Project Commissioning date is mentioned in the commissioning certificate.2. Turbine Capacity is the same as mentioned in the commissioning certificate provided by GEDA.3. Project implementation and sale of energy abide the wheeling and/or power purchase agreement.
Conclusion	The description of the project activity is verified to be true based on the review of PCN, MR, Commissioning Certificate, and Purchase Order Copies.

D.3 Application and selection of methodologies and standardized baselines

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D.3.1 Application of methodology and standardized baselines

Means of Project Verification	The project has taken the reference of CDM methodology A.M.S I.D. CDM website is referred to check the latest version of the methodology. For the applicability mentioned in the PCN and MR, turbine Specification, and commissioning certificate.
Findings	The methodology applied is applicable to the project activity.
Conclusion	The methodology applied is appropriately meeting the requirements of UCR and its standardized baseline. The methodology version is correct and valid. The referenced methodology is applicable to project activity.

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

Means of Project Verification	The documents reviewed are A.M.S I. D “Grid connected renewable electricity generation” version 18, UCR Program standard, and UCR Verification Standard.
Findings	The emission factor ($=0.9 \text{ tCO}_2/\text{MWh}$) is taken as per the UCR standard.
Conclusion	The emission factor considered for the calculation of the emission reductions is verified with the UCR Program Standard. The total installed electrical energy generation capacity of the project equipment does not exceed 15 MW thus meeting the requirement of small-scale projects.

D.3.3 Project boundary, sources and GHGs

Means of Project Verification	Letter from CPCB dated 07/03/2016 No. B-29012/ESS(CPA)/2015-16. PCN section B.4.
Findings	Project boundary is appropriately defined in PCN 2.0 which is the physical and geographical site of energy generation.
Conclusion	The project boundary is correctly defined in the PCN version 2.0. GHG source correctly identified and reported. The project meets the requirements of UCR project standard, Verification standard and methodology requirements for a boundary, GHG source.

D.3.4 Baseline scenario

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Means of Project Verification	MR Section C.5 and General Project Eligibility Criteria and Guidance, UCR Standard.
Findings	None
Conclusion	The baseline scenario is appropriately described. The calculated baseline emission for each vintage year of crediting period is rounded down as per UCR standard.

D.3.5 Estimation of emission reductions or net anthropogenic removal

Means of Project Verification	Certificate For Share of Electricity, General Project Eligibility Criteria and Guidance, calibration report, and UCR Standard, page 4.
Findings	CAR 1 is issued as meter calibration is missing from the years 2013 to 2021.
Conclusion	<p>CAR 1 is closed as the emission reductions are trimmed as mentioned below for the delayed calibration period.</p> <p>A certificate for Share of Electricity is considered an acceptable document to check actual energy generation for each month. The energy generation was also cross-checked with the wind farm certificate, and PGVCL electricity bills.</p> <p>It is a renewable energy project and the project and leakage emission are not considered.</p> <p>A certificate for a share of electricity is considered an acceptable document to check actual energy generation for each month. A copy of the sample has been cropped and attached for reference purposes. The calculated baseline emission for each vintage year of crediting period is rounded down as per UCR standard.</p> <p>The meter with serial numbers GJ B03315 and GJ U03856 is not calibrated and hence the emission reductions are trimmed for the period from Year 2013 to Year 2021. As per CDM, EB52 report, annex-60, page -1; clause 4 for delayed calibration the emission reduction should be trimmed by the maximum permissible error of the instrument. The CoUs are trimmed by applying - 0.2% error to export units and + 0.2% to import units. The details are attached in annexure 3 for reference.</p> <p>Emission reduction sheet has been attached in Annexure II.</p>

D.3.6 Monitoring Report

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Means of Project Verification

Certificate for share of electricity, power purchase agreement, and general project eligibility criteria and guidance, UCR standard, page 4, meter calibration report

Energy meter photos installed at wind turbine.

Energy Meter - B90



Energy Meter - BAR 18



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Findings	<p>Meter Sr. No GJB03315. Make : Secure, Class: 0.2 S. It was calibrated on 23/03/2022.</p> <p>Meter Sr. No. GJU 03856. Make : Secure, Class: 0.2 S. It was calibrated on 14/03/2022.</p>
Conclusion	<p>The energy meter is calibrated as per the GERC Electricity Supply Code and Related Matters Regulations Notification No. 4 of 2015 and CEA Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2019 guideline.</p> <p>Calibration reports of the meters provided by PP certify that errors are within permissible limits.</p> <p>The monitoring parameter reported in MR adequately represents the parameters relevant to emission reduction calculation. The calibration report ensures the accuracy of the data reported. The number of CoUs generation is calculated based on this accurately reported data. The calculation was done using an excel sheet where all the parameters were reported. The emission factor for electricity is as per UCR standard. In the monitoring report, emission reduction calculations are correctly calculated and reported. The monitoring report meets the requirements of UCR project verification requirements.</p>

D.4 Start date, crediting period and duration

Means of Project Verification	PCN and MR, purchase order of turbine and technical Specification sheet, commissioning certificate, and detailed project report documents were referred.
Findings	The declared information is correct and verified.
Conclusion	<p>The start date, crediting period and project duration are reported correctly and this meets the requirements of the UCR verification standard and UCR project standard.</p> <p>The start date : 01/01/2013</p> <p>Crediting period : 01/01/2013 to 31/12/2021</p>

D.5 Positive Environmental impacts

Means of Project Verification	PCN
Findings	None.

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Conclusion	The project is a renewable energy project and reduces the environmental burden by reducing the dependence on fossil fuel-based power plants.
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D.6 Project Owner- Identification and communication

Means of Project Verification	PCN, communication agreement, MR, purchase order of turbine, commissioning certificate, power purchase agreement/wheeling agreement.
Findings	The declared information is correct and verified.
Conclusion	The project owner was identified through a communication agreement signed between PP and PA. Equipment purchase order and commission verified. Also, a legal document like Power Purchase Agreement/ Wheeling Agreement clearly establishes the project owner. The identification and communication correctly meet the requirement of project verification and UCR project standard.

D.7 Positive Social Impact

Means of Project Verification	Project has provided temporary employment to local people during its installation and commissioning. Also post commissioning some of people have employed permanently and local people were engaged leading to social financial benefit to surrounding. Overall social impact of project implementation is positive on the surrounding area.
Findings	--
Conclusion	Project has overall positive social impact.

D.8 Sustainable development aspects (if any)

Means of Project Verification	Not Applicable
Findings	--
Conclusion	The Project has the capability to address SDG 7 Affordable and Clean Energy and SDG 13 Climate Action

E. Internal quality control:

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- 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.

F. Project Verification opinion:

Considering the above-mentioned verification conducted on the basis of UCR Protocol, which draws reference from UCR Protocol Standard Baseline, AMS.I.D – Grid connected renewable electricity generation (Version 18.0), the documents submitted during the verification including the data, PPA, Purchase order, Calibration Report, Commissioning Certificate, Project Concept Note (PCN), Monitoring Report (MR), I am able to certify that the emission reductions from the project - 2.5 MW Bundled Small Scale Wind Power Project by M/s Investment & Precision Castings Limited. (UCR ID – 224) for the period 01/01/2013 to 31/12/2021 amounts to **29810** CoUs (**29810** tCO₂e).

G. Abbreviations

Abbreviations	Full texts
UCR	Universal Carbon Registry
CPCB	Central Pollution Control Board
PGVCL	Paschim Gujarat Vij Company Ltd.
GETCO	Gujarat Energy Transmission Corporation
GERC	Gujarat Electricity Regulatory Commission (GERC)
GEDA	Gujarat Energy Development Authority
CEA	Central Electricity Authority
MR	Monitoring report
PCN	Project Concept Note
VR	Verification Report
VS	Verification Statement
DAA	Avoidance of Double Accounting Agreement
COD	Commercial Operation Date
PP/PO	Project Proponent / Project Owner
PA	Project Aggregator
PPA	Power Purchase Agreement
ER	Emission Reduction
CoUs	Carbon offset Units.

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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
CAR	Corrective Action Request
CL	Clarification Request
FAR	Forward Action Request
GHG	Green House Gas
WTG	Wind Turbine Generator

H. Competence of team members and technical reviewers

No.	Last name	First name	Affiliation	Technical Competence
1.	Amin	Shardul	Lead Verifier, Naturelink Solutions Pvt. Ltd.	Mr. Shardul Amin is a post-graduate having M.Tech in Thermal System Design. He has more than 5 years of experience in the field of waste-to-energy, thermochemical conversion technologies, and emission study.

I. Document reviewed or referenced

No.	Author	Title	Provider
1	UCR	Communication agreement	PA
2	Creduce	Project Concept Note	PA
3	Creduce	Monitoring report	PA
4	Creduce	Avoidance of double accounting	PA
5	Creduce	Emission reduction excel	PA
6	GETCO	Certificate for a share of electricity (2013-2021)	PA
7	GEDA	Commissioning certificate	PA
8	PGVCL & PP	Power purchase agreement/wheeling agreement	PA

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9	PP	Purchase order of turbine	PA
10	PP	Purchase order of generator	PA
11	CEA	Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2019	-
12	PGVCL	Electricity Bills.	PA
13	Yadav Measurement	Calibration reports (2022)	PA
14	PGVCL	Wind farm certificate	PA
15	PP	Wind turbine purchase order/invoices	PA

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J. 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.	Estimation of emission reduction or net anthropogenic removal	Date:
		D.3.5		13/02/2023
Description of CAR				
<i>Meters are not calibrated during the crediting period</i>				
Project Owner's response				Date:
				13/03/2023
<i>Meters calibration reports are not available for the year 2013 to 2021</i>				
Documentation provided by Project Owner				
<i>Meter calibration report for the year 2022</i>				
UCR Project Verifier assessment				Date:
				15/03/2023
Energy generation are trimmed as per the UCR standards				

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		

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ANNEXURE I: Photographs of the Power Plant



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Figure-1: Project Activity

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Gujarat Energy Development Agency

Surajplaza II - 2nd Floor, Sayajigunj, Vadodara - 390 005 Gujarat India.
Ph.: (0265) 2363123, 2362058, 2361409 Fax : 0265-2363120
E-mail : info@geda.org.in Website : www.geda.org.in

Ref No: GEDA/PWF/LAM/IPCL-COM/2006-07/1693

Date: 28/6/2006

CERTIFICATE OF COMMISSIONING

This is to certify that M/s Investment & Precision Castings Limited, Nari Road, Bhavnagar-364006 have commissioned 1.250 MW capacity wind farm on 19/6/2006 as detailed below at location W-10 as shown in micro siting drawing enclosed herewith.


Make of each Wind Turbine Generator (WTG) : SUZLON
Capacity of each Wind Turbine Generator : 1.250 MW
No. of Wind Turbine Generator/s : One
Total capacity of the Windfarm : 1.250 MW
Site of installation : Survey no. 479, Lamba,
Ta: -Kalyanpur, Dist: -
Jamnagar
WTG ID number (B90) : SEL/1250/05-06/0150

This windfarm is connected by 11 kV grid line to Gandhvi Wind farm site sub-station at Gandhvi. And Gandhvi site sub station is connected to GEB Bhatia sub station.

Electricity generation report for the purpose of commissioning of windfarm

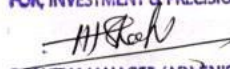
Sr. no.	WTG No.	Date	Time (Hrs.)		Meter (kWh)		
			From	To	Initial	Final	Difference
1	SEL/1250/06-07/0150	19.06.2006	16.00	16.32	0	254	254
						Total:-->	254

For Gujarat Energy Development Agency


(B. J. Bhatt)
DIRECTOR

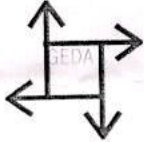
Enclosed: - Annexure I Copy of approved micro siting drawing

FOR, INVESTMENT & PRECISION CASTINGS LTD.


DEPUTY MANAGER (ADMINISTRATION)

NATURELINK SOLUTIONS PRIVATE LIMITED

REG.OFFICE: H. NO. 6/121/1A, PLOT NO. G-1, VAIRAGI NI WADI, NEAR DELHI GATE SURAT – 395007
Email: audit@thenaturelink.in

 **Gujarat Energy Development Agency**
(A Govt. of Gujarat Organisation)
4th Floor, Block No. 11 & 12, Udyogbhavan, Sector - 11, Gandhinagar - 382 017. (Gujarat), India.
Ph : (079) 23247086/89/90 Fax : 23247097 E-mail: info@geda.org.in Website : www.geda.org.in

Ref No: GEDA/PWF/SGWPL-I&PCL/Baradiya/09-10/1607 Date : 15/03/2010

CERTIFICATE OF COMMISSIONING

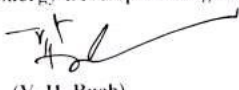
This is to certify that M/s. Investment & Precision Castings Ltd., Nari Road, Bhavnagar - 364006, Gujarat, India have commissioned 1.25 MW capacity wind farm consisting of 1 (One) number of new wind turbine generator as per the WTG ID no. and date of commissioning given below and location as shown in Micrositing drawing enclosed herewith.

Make of each Wind Turbine Generator (WTG) : SUZLON
Capacity of each Wind Turbine Generator : 1250 kW
No. of Wind Turbine Generator/s : One
Total Capacity of Windfarm : 1.25 MW
Site of Installation : Govt. leased land Survey no. 96/p at Village Baradiya, Dist. Jamnagar.
WTG ID number (BAR18) : SEL/1250/09-10/1607

The wind farm is connected by 33 kV grid line to 66/33 kV, 25 MVA capacity Baradiya site sub-station at Baradiya. The Baradiya site sub-station is connected to GETCO's Varvala sub station.

Electricity generation report for the purpose of commissioning of wind farm

Sr. No.	WTG No.	Date	Time (Hrs.)		Meter (kWh)		
			From	To	Initial	Final	Difference
1	SEL/1250/09-10/1607	03.03.2010	12.15	14.10	000	064	064
Total: →							064

For Gujarat Energy Development Agency

(V. H. Buch)
DIRECTOR

Enclosed: - Annexure I Copy of approved Micrositing drawing


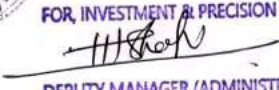
 **FOR, INVESTMENT & PRECISION CASTINGS LTD.**

DEPUTY MANAGER (ADMINISTRATION)

Figure-2: Commissioning certificate

NATURELINK SOLUTIONS PRIVATE LIMITED

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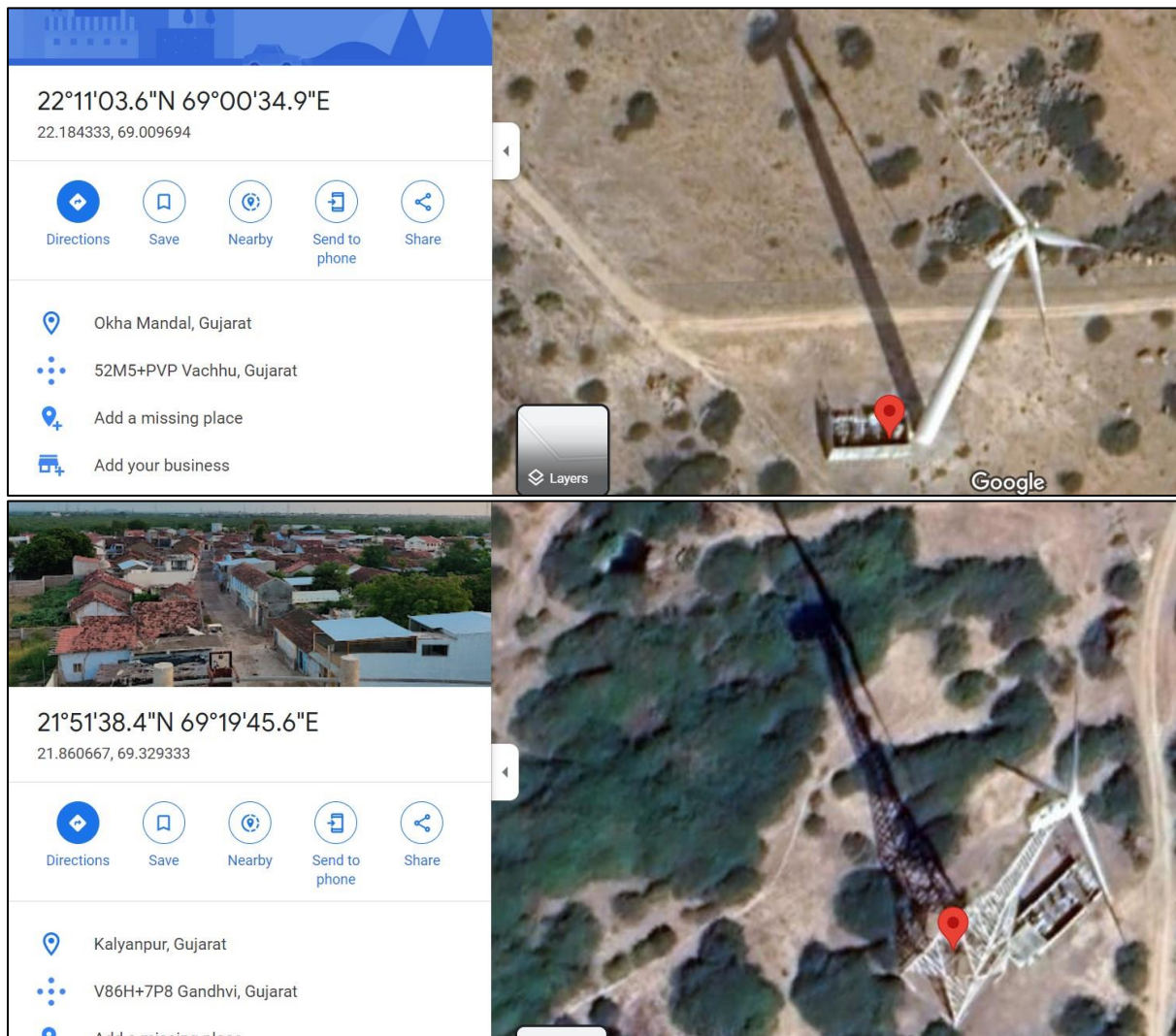


Figure-3: Google map photo of WTG

NATURELINK SOLUTIONS PRIVATE LIMITED

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Annexure II Emission Reduction

Year-Wise Emission reduction calculation for the project activity

Year	Total No. of Electricity delivered in kWh	Trimmed Electricity Generation (0.2%)	Generation of electricity (kWh)	EF (tCO2/MWh)	Total CoUs generated
2013	3684477	7368.954	3677108.046	0.9	3309
2014	3736764	7473.528	3729290.472	0.9	3356
2015	3630436	7260.872	3623175.128	0.9	3260
2016	3835435	7670.87	3827764.13	0.9	3444
2017	3502226	7004.452	3495221.548	0.9	3145
2018	3982710	7965.42	3974744.58	0.9	3577
2019	3896312	7792.624	3888519.376	0.9	3499
2020	3323252	6646.504	3316605.496	0.9	2984
2021	3603181	7206.362	3595974.638	0.9	3236
Total CoUs to be issued for the first monitoring period (Year: 2013 to 2021)					29810