

# 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](mailto:audit@thenaturelink.in)

## Verification Report UCR ID: 183



<b>Title</b>	<b>14 MW Small Scale Wind Power Project by M/s Shah Promoters and Developers.</b>
<b>Project Proponent</b>	<b>M/s Shah Promoters and Developers</b>
<b>Project Location</b>	<b>Village - Sakari, Taluka - Sakari Dist.-Dhule , &amp; Village - Nagaj, Taluka - Kawathe Mahakal Dist.- Sangli,  Maharashtra, India</b>
<b>Verified By</b>	<b>Mr. Shardul Amin, Lead Verifier, Email: <a href="mailto:audit@thenaturelink.in">audit@thenaturelink.in</a>, Contact: +91- 7574804497, Naturelink Solutions Pvt. Ltd.</b>
<b>Date</b>	<b>09/05/2023</b>

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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	09/05/2023
Title of the project activity	14 MW Small Scale Wind Power Project by M/s Shah Promoters and Developers.
Project reference no. (as provided by UCR Program)	183
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)
<b>Project Verification Criteria:</b> 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
<b>Project Verifier's Confirmation:</b> 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 “14 MW Small Scale Wind Power Project by M/s Shah Promoters and Developers.”</p> <input checked="" type="checkbox"/> The project aggregator has correctly described the project activity in the Project Concept Note 2.0 (dated 02/05/2023) 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 estimated <b>48015</b> tCO <sub>2</sub> e, as indicated in the

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	<p>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>
<b>Project Verification Report, reference number and date of approval</b>	<p>Verification Report UCR</p> <p>Project ID: 183</p> <p>Date: 09/05/2023</p>
<b>Name of the authorised personnel of UCR Project Verifier and his/her signature with date</b>	<div></div> <p>Mr. Shardul Amin Lead Verifier Naturelink Solution Pvt. Ltd. Date: 09/05/2023</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 “**14 MW Small Scale Wind Power Project by M/s Shah Promoters and Developers, UCR approved project ID:183**”, to establish a number of CoUs generated by the project over the crediting period from 08/06/2019 to 31/12/2021 (both days included).

Verification for the period: 08/06/2019 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 the emission reductions from the 14 MW Small Scale Wind Power Project by M/s Shah Promoters and Developers. (UCR ID – 183) for the period 08/06/2019 to 31/12/2021 amounts to **48015** CoUs (**48015** tCO<sub>2e</sub>).

### 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 the present assignment and project is deemed validated post-registration by UCR.

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## Description of the Project

The project activity involves 10 wind turbine generators (WTGs) having a total capacity of 14 MW manufactured and supplied by Suzlon Energy Ltd in the districts Dhule and Sangli of the state of Maharashtra in India.

Site	WEG Location No.	Installed Capacity	Village, District	Substation	Date of commissioning
Site I	J-17	1.25	Jamade, Dhule	Jamade	10/08/2006
	J-21	1.25	Jamade, Dhule	Jamade	10/08/2006
	J-22	1.25	Jamade, Dhule	Jamade	10/08/2006
	J-23	1.25	Jamade, Dhule	Jamade	10/08/2006
Site - II	N-4	1.50	Nagaj, Sangli	Ghatnandre	30/09/2007
	N-5	1.50	Nagaj, Sangli	Ghatnandre	30/09/2007
	N-6	1.50	Nagaj, Sangli	Ghatnandre	30/09/2007
	N-7	1.50	Nagaj, Sangli	Ghatnandre	30/09/2007
	N-8	1.50	Nagaj, Sangli	Ghatnandre	30/09/2007
	N-9	1.50	Nagaj, Sangli	Ghatnandre	30/09/2007

Site	Windmill Location no.	Address	Latitude and longitude	
Site I	J-17	R. S. No. - 19, Village – Jamade, Taluka - Sakari, Dist - Dhule	21°10'50.8" N	74°21'32.3" E
	J-21	R. S. No. - 19, Village – Jamade, Taluka - Sakari, Dist - Dhule	21°10'45.8" N	74°22'14.1" E

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Site	Windmill Location no.	Address	Latitude and longitude	
	J-22	R. S. No. - 19, Village – Jamade, Taluka - Sakari, Dist - Dhule	21°10'57.2" N	74°22'13.4" E
	J-23	R. S. No. - 19, Village – Jamade, Taluka - Sakari, Dist - Dhule	21°11'11.9" N	74°22'14.9" E
Site II	N-4	Survey no.-585, Village – Nagaj, Taluka - Kawathe Mahakal, Dist – Sangli	17°09'49.3" N	74°56'58.1" E
	N-5	Survey no.-604, Village – Nagaj, Taluka - Kawathe Mahakal, Dist – Sangli	17°10'00.8"N	74°57'04.0"E
	N-6	Survey no.-604, Village – Nagaj, Taluka - Kawathe Mahakal, Dist – Sangli	17°10'13.4" N	74°57'06.1" E
	N-7	Survey no.-604, Village – Nagaj, Taluka - Kawathe Mahakal, Dist – Sangli	17°10'25.5" N	74°57'04.4" E
	N-8	Survey no.-604, Village – Nagaj, Taluka - Kawathe Mahakal, Dist – Sangli	17°10'37.1" N	74°57'06.9" E
	N-9	Survey no.-604, Village – Nagaj, Taluka - Kawathe Mahakal, Dist – Sangli	17°10'48.8" N	74°57'07.8" E

The technical specification is listed below;

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Technical details of 1500 kW WTG machine manufactured by Suzlon Energy Ltd. are as follows:

Parameter	Suzlon S-82 (1.5 MW) – Technical Overview	
Product No.	S- 82	
Operating Data	Rated Power	1500 kW
	Cut- in wind speed	4 m/s
	Rated Wind Speed	14 m/s
	Survival wind Speed	52.5 m/s
	Cut- out wind speed	20m/s
Rotor	Rotor diameter	82 m
Generator	Frequency	690 V (50 Hz)
	Type	Asynchronous
Tower	Hub Height	78.5 m
	Type	Tubular tower with welded steel plates

Technical detail of 1250 kW WTG Machine manufactured by Suzlon Energy Ltd. Energy is as follows:

Parameter	Suzlon S-70 (1.25 MW) – Technical Overview	
Product No.	S- 70	
Operating Data	Rated Power	1250 kW
	Cut- in wind speed	3 m/s
	Rated Wind Speed	12 m/s
	Survival wind Speed	67 m/s
	Cut- out wind speed	20m/s
Rotor	Rotor diameter	70 m
Generator	Frequency	690 V (50 Hz)
	Type	Asynchronous
	Speed at rated Power	1511 rpm
Tower	Hub Height	75 m
	Type	Tubular tower with welded steel plates

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 **48015 tCO<sub>2</sub>e** for the said period under verification, there on displacing **53350.8 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.



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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	08/06/2019
Carbon credits claimed up to	31/12/2021
Total ERs generated (tCO <sub>2</sub> e)	<b>48015</b> tCO <sub>2</sub> e
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. was 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.

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.

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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 guidelines, the site visit was not conducted during verification and only interviews are conducted.

No.	Interview			Date	Subject
	Last name	First name	Affiliation		
1.	Bhosale	Arvind	Shah Promoters and Developers	04 and 08/05/2023	Meter calibration, project commissioning , and overview

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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
<b>Green House Gas (GHG)</b>			
Identification and Eligibility of project type	NIL	NIL	NIL
General description of project activity	1	1	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	1	1	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
<b>Total</b>	<b>2</b>	<b>2</b>	<b>NIL</b>

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## D. Project Verification findings

### D.1 Identification and eligibility of project type

<b>Means of Project Verification</b>	The project has taken the reference of CDM methodology AMS-I D, version 18 Grid Connected Renewable Electricity Generation.
<b>Findings</b>	<ol style="list-style-type: none"><li>1. Project activity is described through UCR-approved PCN.</li><li>2. UCR project communication agreement clearly defines the Project Proponent and Project Aggregator.</li></ol>
<b>Conclusion</b>	<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

<b>Means of Project Verification</b>	The project activity involves the operation of 14 MW 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 monthly credit note.
<b>Findings</b>	<p>CL 1 is raised for the missing details of the wind turbine located in Dhule.</p> <p>CAR 1 is raised due to the pinpoint locations of the wind turbine ID N5 and J23 did not show the wind turbine.</p> <ol style="list-style-type: none"><li>1. Project Commissioning date is mentioned in the commissioning certificate.</li><li>2. Turbine Capacity is the same as mentioned in the commissioning certificate provided by MEDA.</li><li>3. Project implementation and sale of energy abide by the Wind Energy Purchase Agreement.</li></ol>
<b>Conclusion</b>	CL 1 and CAR 1 are closed.

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	The description of the project activity is verified to be true based on the review of PCN, MR, Commissioning Certificate, and Purchase Order Copies.
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## D.3 Application and selection of methodologies and standardized baselines

### D.3.1 Application of methodology and standardized baselines

<b>Means of Project Verification</b>	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.
<b>Findings</b>	The methodology applied is applicable to the project activity.
<b>Conclusion</b>	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

<b>Means of Project Verification</b>	The documents reviewed are A.M.S I. D “Grid connected renewable electricity generation” version 18, UCR Program standard, and UCR Verification Standard.
<b>Findings</b>	The emission factor ( $=0.9 \text{ tCO}_2/\text{MWh}$ ) is taken as per the UCR standard.
<b>Conclusion</b>	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

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

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	of UCR project standard, Verification Standard, and Methodology requirements for a boundary, GHG source.
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## D.3.4 Baseline scenario

<b>Means of Project Verification</b>	MR Section C.5 and General Project Eligibility Criteria and Guidance, UCR Standard.
<b>Findings</b>	None
<b>Conclusion</b>	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	MSEDCL Credit Notes, General Project Eligibility Criteria and Guidance, Calibration Report, and UCR Standard, page 4.			
Findings	None			
Conclusion	A monthly credit note provided by the MSEDCL 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.			
	Year	EGpy (MWh)	EFgrid,y	ERs
	2019	16576.93	0.9	14919
	2020	17900.37	0.9	16110
	2021	18873.44	0.9	16986
	ER (tCO <sub>2</sub> e) for the period of 2019 to 2021			48015

## D.3.6 Monitoring Report

<b>Means of Project Verification</b>	<p>MSEDCL Credit Note, wind energy purchase agreement, and general project eligibility criteria and guidance, <u>UCR</u> standard, page 4, meter calibration report</p> <p>Energy meter photos installed at the wind turbine are attached at Annexure II.</p>
<b>Findings</b>	CL 2 is issued to confirm the double accounting as the project is already registered on VERRA and CDM registry.

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	<p>CAR 2 is raised as the monitoring plan has involved M/s Enercon India Ltd for the determination of energy generation report, however, there was no role of M/s Enercon India Ltd.</p> <p>Details of meter calibration is as follow;</p> <table> <tr> <th rowspan="2">Loca tion</th><th rowspan="2">WTG ID</th><th rowspan="2">Fee der No.</th><th colspan="2">Meter Sr. No</th><th rowspan="2">Calibrati on Date</th></tr> <tr> <th>Main</th><th>Check</th></tr> <tr> <td rowspan="2">Dhul e</td><td>J 17</td><td>13</td><td>02839054</td><td>02839055</td><td>23/03/2018</td></tr> <tr> <td>J 21, J22, J23</td><td>2</td><td>02814589</td><td>02814590</td><td>23/03/2018</td></tr> <tr> <td rowspan="2">San gli</td><td>N 4, N5, N6, N7</td><td>9</td><td>14796403</td><td>14796404</td><td>23/03/2018</td></tr> <tr> <td>N8,N9</td><td>10</td><td>14796408</td><td>14796412</td><td>23/03/2018</td></tr> </table>					Loca tion	WTG ID	Fee der No.	Meter Sr. No		Calibrati on Date	Main	Check	Dhul e	J 17	13	02839054	02839055	23/03/2018	J 21, J22, J23	2	02814589	02814590	23/03/2018	San gli	N 4, N5, N6, N7	9	14796403	14796404	23/03/2018	N8,N9	10	14796408	14796412	23/03/2018
Loca tion	WTG ID	Fee der No.	Meter Sr. No		Calibrati on Date																														
			Main	Check																															
Dhul e	J 17	13	02839054	02839055	23/03/2018																														
	J 21, J22, J23	2	02814589	02814590	23/03/2018																														
San gli	N 4, N5, N6, N7	9	14796403	14796404	23/03/2018																														
	N8,N9	10	14796408	14796412	23/03/2018																														
<b>Conclusion</b>	<p>CL 2 is closed. The project was registered on VERRA and CDM but there is no overlap of crediting period and the project owner has already claimed the carbon credit from 08/06/2007 to 07/06/2009 and 08/06/2009 to 07/06/2019 on VERRA and CDM respectively.</p> <p>CAR 2 is closed and correction has been made in the monitoring plan.</p> <p>Calibration reports of the meters provided by PP certify that errors are within permissible limits and details are mentioned below.</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

<b>Means of Project Verification</b>	PCN and MR, purchase order of turbine and technical Specification sheet, commissioning certificate, and detailed project report documents were referred.
<b>Findings</b>	The declared information is correct and verified.

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<b>Conclusion</b>	<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 : 08/06/2019</p> <p>Crediting period: 08/06/2019 to 31/12/2021</p>
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## D.5 Positive Environmental impacts

<b>Means of Project Verification</b>	PCN
<b>Findings</b>	None.
<b>Conclusion</b>	The project is a renewable energy project and reduces the environmental burden by reducing the dependence on fossil fuel-based power plants.

## D.6 Project Owner- Identification and communication

<b>Means of Project Verification</b>	PCN, communication agreement, MR, purchase order of turbine, commissioning certificate, power purchase agreement/wheeling agreement.
<b>Findings</b>	The declared information is correct and verified.
<b>Conclusion</b>	<p>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.</p> <p>Project owner details;</p> <p>M/s Shah Promoters and Developers.</p> <p>Address: AST-1, Success Chamber,1232, Apte Road, Deccan Gymkhana, Pune - 411004.</p>

## D.7 Positive Social Impact

<b>Means of Project Verification</b>	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
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	leading to social financial benefit to surrounding. Overall social impact of project implementation is positive on the surrounding area.
<b>Findings</b>	--
<b>Conclusion</b>	Project has overall positive social impact.

## D.8 Sustainable development aspects (if any)

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

## E. 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.

## 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 - 14 MW Small Scale Wind Power Project by M/s Shah Promoters and Developers. (UCR ID – 183) for the period 08/06/2019 to 31/12/2021 amounts to **48015** CoUs (**48015** tCO<sub>2</sub>e).

## G. Abbreviations

Abbreviations	Full texts
UCR	Universal Carbon Registry
CPCB	Central Pollution Control Board
MSEDCL	Maharashtra State Electricity Distribution Co, Ltd.
MEDA	Maharashtra Energy Development Agency.

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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.
tCO <sub>2</sub> 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	Mr. Shardul Amin is a post-graduate having M.Tech in Thermal System Design. He has more than 6 years of experience in the field of waste-to-energy, thermochemical conversion technologies, and emission study.

## I. Document reviewed or referenced

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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	MSEDCL	Monthly Credit Note (2020-2021)	PA
7	MEDA	Commissioning certificate	PA
8	MSEDCL & PP	Wind Energy Purchase Agreement	PA
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	MSEDCL	Calibration reports	PA
13			

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## J. Clarification request, corrective action request and forward action request

**Table 1. CLs from this Project Verification**

CL ID	01	Section no.: D.2	General Description of Project Activity	Date: 02/05/2023
<b>Description of CL</b>				
<i>Meter photos and turbine description is not available for Dhule WTGs</i>				
<b>Project Owner's response</b>				Date: 03/05/2023
<i>Mailed the documents</i>				
<b>Documentation provided by Project Owner</b>				
<i>Meter photos, project photos and turbine specifications were provided.</i>				
<b>UCR Project Verifier assessment</b>				Date: 09/05/2023
The provided information is found to be correct and CL1 is closed.				

CL ID	02	Section no.: D.3.6	Monitoring Report	Date: 02/05/2023
<b>Description of CL</b>				
<i>Provide the crediting period of the project registered on VERRA and CDM.</i>				
<b>Project Owner's response</b>				Date: 03/05/2023
<i>VERRA and CDM project ID and Weblink will be provided.</i>				
<b>Documentation provided by Project Owner</b>				
<i>VERRA and CDM ID</i>				
<b>UCR Project Verifier assessment</b>				Date: 09/05/2023
There will not be double accounting as the project crediting period does not overlap and CL2 is closed.				

**Table 2. CARs from this Project Verification**

CAR ID	01	Section no.: D.2	General Description of Project Activity	Date: 02/05/2023
<b>Description of CAR</b>				

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WTG ID N5 and J23 do not show the wind turbine in google maps. Correct coordinates are required.	
Project Owner's response	Date: 08/05/2023
Provided the correct coordinates.	
Documentation provided by Project Owner	
Google Coordinates.	
UCR Project Verifier assessment	Date: 09/05/2023
Coordinates provided are correct and CAR 1 is closed	

CAR ID	02	Section no.: D.3.6	Monitoring Report	Date: 02/05/2023
Description of CAR				
PCN has shown the M/s Enercon India Ltd was involved in the Energy generation report. While there is no evidence available in the monitoring report or documents submitted by the PP.				
Project Owner's response				Date: 08/05/2023
There was a mistake in the PCN.				
Documentation provided by Project Owner				
Revised PCN 2.0				
UCR Project Verifier assessment				Date: 09/05/2023
CAR 2 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				

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## ANNEXURE I: Photographs of the Power Plant





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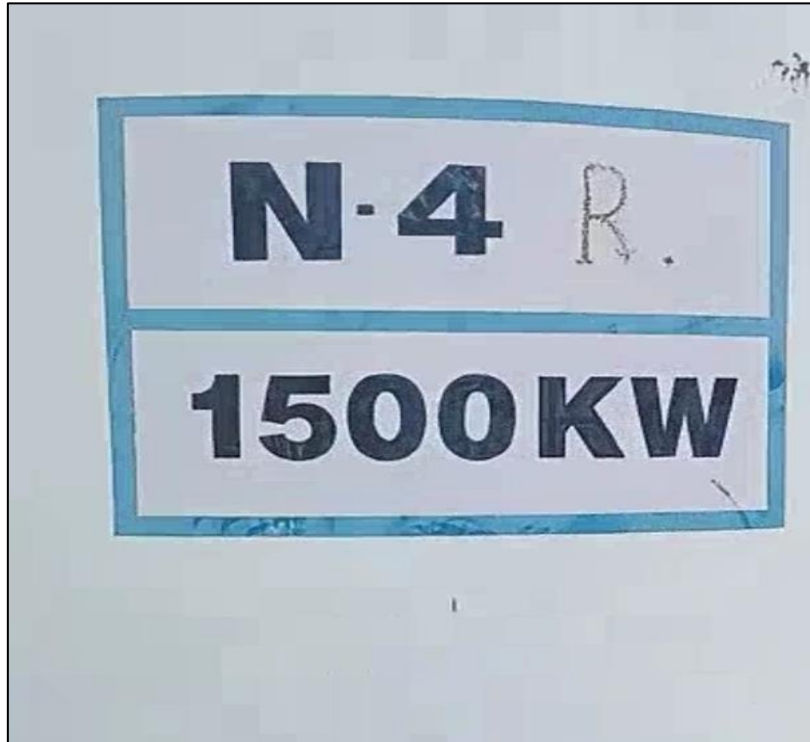


Figure-1: Project Activity

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## Group Credit Note

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO.LTD.					
( Corporate Office )					
Energy Purchase Agreement					
Date of Comm : 30-SEP-2007			Month : Mar Year : 2020		
H.O. NOC NO :			Capacity : 1.5 MW		
Energy Purchase Agreement - Sale to MSDEL			Feeder Name : 409		
H.O. NOC Period : 30-SEP-2007 to 29-SEP-2020			Substation Name : 248016		
To,					
Shah Promoters & Developers,.					
Sub :- Feederwise Monthly Creditnote in r/o 220/33 KV Suzlon Feeder No.10 having (1.500X13) WTGs for the M/o Mar - 20 .					
Ref :- Energy Purchase Agreement - Sale to MSDEL, CO-ORD CELL/WIND/NO. 10441 DATED 31.03.2008, from 30-SEP-2007 to 29-SEP-2020					
Meter Make : 057	Meter Serial No. : 14796408				
Line CT Ratio : 600/1	Line PT Ratio : 33/110				
Meter CT Ratio : 1/1	Meter PT Ratio : 11/110	Hence M.F. : 1800	Polarity : REC		
Sr. No.	Parameter	Billing Meter Reading as on Current (Date)	Billing Meter Reading as on Previous (Date)	Difference	Unit Recorded by Billing Meter
1.	KWH DEL	1089.798	1079.650	10.148	18265.500
2.	KWH DEL A	315.870	314.340	1.530	2754.000
3.	KWH DEL B	443.558	438.618	4.940	8892.000
4.	KWH DEL C	161.140	159.083	2.058	3703.500
5.	KWH DEL D	169.230	167.610	1.620	2916.000
6.	KWH REC	141894.970	141085.648	809.323	1456780.500
7.	KWH REC A	51429.163	51043.428	385.735	694323.000
8.	KWH REC B	47332.585	47149.050	183.535	330363.000
9.	KWH REC C	13514.283	13487.515	26.768	48181.500
10.	KWH REC D	29618.940	29405.655	213.285	383913.000
11.	KVAH DEL	1098.368	1088.220	10.148	18265.500
12.	KVAH REC	146066.408	145213.055	853.353	1536034.500
13.	KVARH Q1	15.483	15.480	0.003	4.500
14.	KVARH Q2	2922.525	2897.473	25.053	45094.500
15.	KVARH Q3	18783.638	18588.740	194.898	350815.500
16.	KVARH Q4	2795.688	2795.158	0.530	954.000
Multiplying Factor : 1800					
Total RKVAH Units : 29715.7311					
Net KWH : 947837.5335					
Gen. P.F (LD) : .9484					

### Generator wise unit bifurcation

Sr. No.	Generator name	Date of Comm.	Generator Code	Generator Address	Generator Site	Capacity	No of Machine	WTG % Breakup	Import KWH	Export KWH	Net KWH	RKVAH UNIT	Type of Buyer (EP/EPS)
1.	Shah Promoters & Developers	30-SEP-2007	C520300000395006	Ghatnandre	N09	1.5	1	8.89	129507.78645	1623.80295	127883.98354	4009.3011	EP
2.	Shah Promoters & Developers	30-SEP-2007	C520300000395005	Ghatnandre	N08	1.5	1	8.7	126739.9035	1589.0985	125150.805	3923.613	EP

\*This is an electronically generated report, sign is not required.

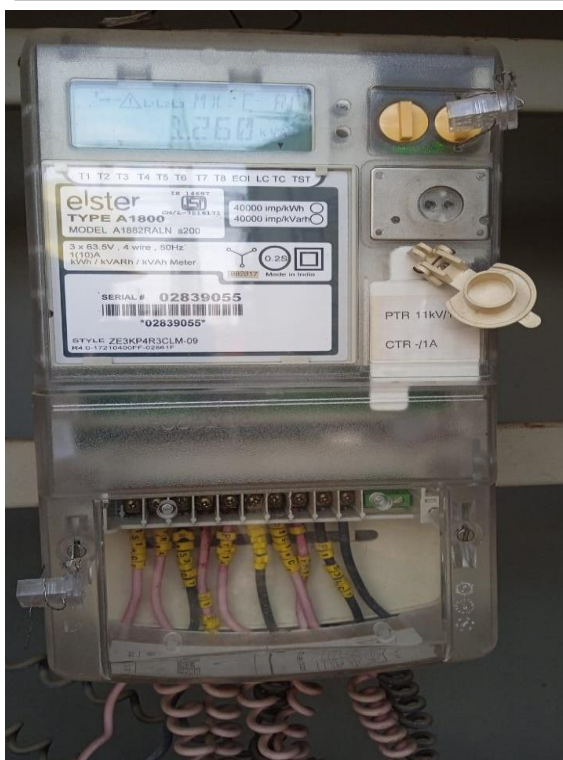
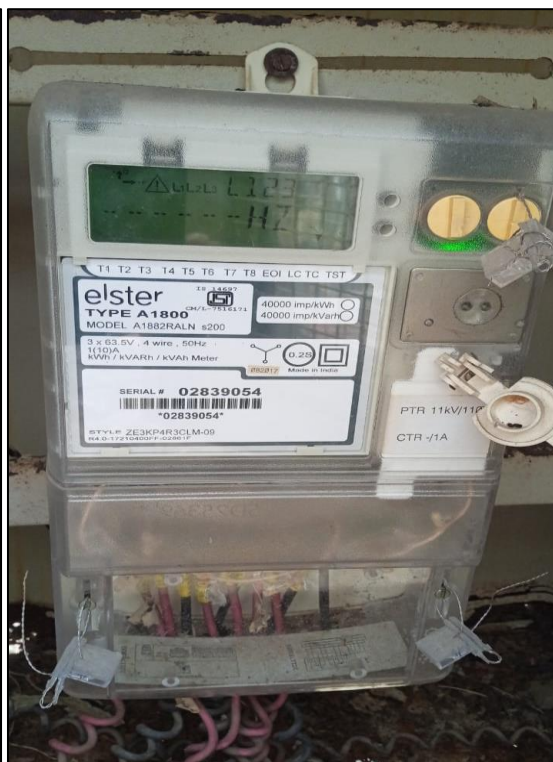
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Figure-2: Sample Credit Note

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## ANNEXURE II: Meter Photos.





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Figure-3: Meter Photos