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

# Verification Report UCR ID: 205



Title	2.6 MW Small Scale Wind Power Project by M/s Markwell Spinning Private Limited.
Project Proponent	M/s Markwell Spinning Private Limited
Project Location	Location no. MOD 018. Village - Pasaya, Dist. Jamnagar, Gujarat, India 22°23'02.2"N 70°13'59.7"E
Verified By	Mr. Shardul Amin, Lead Verifier, Email: audit@thenaturelink.in, Contact: +91- 7574804497, Naturelink Solutions Pvt. Ltd.
Date	11/04/2023

COVER PAGE				
Project Verification Report Form (VR)				
BASIC INFO	RMATION			
Name of approved UCR Project Verifier / Reference No.	Naturelink Solutions Pvt. Ltd			
Type of Accreditation	☐ CDM Accreditation			
	☐ ISO 14065 Accreditation			
	☐ 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	11/04/2023			
Title of the project activity	2.6 MW Small Scale Wind Power Project by M/s Markwell Spinning Private Limited.			
Project reference no. (as provided by UCR Program)	205			
Name of Entity requesting verification service	Creduce Technologies Private Limited (Aggregator)			
Contact details of the representative of the	Shailendra Singh Rao			
Entity, requesting verification service	Mobile: +91-9016850742			
(Focal Point assigned for all communications)	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:	□ UCR Verification Standard			

Mandatory requirements to be assessed	Applicable Approved Methodology
	Applicable Legal requirements /rules of the host country
	Start date of the Project activity
	□ Do No Harm Test
	Others (please mention below)
Project Verification Criteria: Optional requirements to be assessed	<ul><li>Environmental Safeguards Standard and do-no-harm criteria</li><li>Social Safeguards Standard do-no-</li></ul>
	harm criteria
Project Verifier's Confirmation:  The UCR Project Verifier has verified the UCR project activity and therefore confirms the following:	The UCR-approved verifier Naturelink Solution Pvt. Ltd., verifies the following with respect to the UCR Project Activity "2.6 MW Small Scale Wind Power Project by M/s Markwell Spinning Private Limited."  The project aggregator has correctly described the project activity in the Project
	Concept Note (dated 05/08/2022) 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.

	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.  The project activity is not likely to cause any net-harm to the environment and/or society  The project activity complies with all the
	applicable UCR rules and therefore recommends UCR Program to register the Project activity with above mentioned labels.
Project Verification Report, reference number and date of approval	Verification Report UCR Project ID: 205 Date: 11/04/2023
Name of the authorised personnel of UCR Project Verifier and his/her signature with date	Mr. Shardul Amin Lead Verifier Naturelink Solution Pvt. Ltd. Date: 11/04/2023

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## **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 "2.6 MW Small Scale Wind Power Project by M/s Markwell Spinning Private Limited, UCR approved project ID:205, to establish a number of CoUs generated by the project over the crediting period from 28/12/2021 to 31/12/2022 (both days included).

Verification for the period: 28/12/2021 to 31/12/2022

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 2.6 MW Small Scale Wind Power Project by M/s Markwell Spinning Private Limited. (UCR ID -205) for the period 28/12/2021 to 31/12/2022 amounts to **7639** CoUs (**7639** tCO<sub>2</sub>e).

#### **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 is a renewable power generation activity which incorporates installation and operation of a wind turbine generator (WTG) having capacity of 2.6 MW each manufactured and supplied by Suzlon Energy Limited in district Jamnagar of the state of Gujarat, India. The details of the project activity are verified with the project report copy submitted for verification.

WTG	Latitude and Longitude	Village	Taluka	District
2.6 MW	22°23'02.2"N 70°13'59.7"E	Pasaya	Jamnagar	Jamnagar

The technical specification is listed below;

Description	Information	
Turbine model	Suzlon A-133-140	
Rated power	2.6 MW	
Rotor diameter	133 m	
Hub height	140 m	
Generator		
Туре	Slip ring asynchronous generator	
Rated frequency	50 Hz (-6% to +5% continuously)	
Rated power	2.875 MW (under DFIG operation with rotor circuit	
Rated power	inverter system)	
Rotor orientation	Upwind	
Blades		
Туре	SB65	
Quantity	3	
Length	65.0 m	
Material	Glass-carbon hybrid	
Cut in wind speed	3 m/s	
Rated wind speed	9.5 m/s	
Cut-out Wind speed	20 m/s	
Extreme Wind Speed	36.5 m/s	
Operating range rot.	7.23 to 12.11 rpm	
Speed		

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 **7639 tCO**<sub>2</sub>**e** for the said period under verification, there on displacing **8489 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	28/12/2021		
Carbon credits claimed up to	31/12/2022		
Total ERs generated (tCO <sub>2</sub> e)	<b>7639</b> tCO <sub>2</sub> e		
Leakage Emission	0		
Project Emission	0		

#### B. Project Verification team, technical reviewer and approver:

Sr.	Role	Last	First	Affiliation		Involvement	in
No		name	name		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
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#### **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.

	Interview			_ ,		
No.	Last name	First name	Affiliation	Date	Subject	
1.	Ghetia	Chirag	Markwell Spinning Private Limited	08/04/2023	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
Green House Gas (0	GHG)		
Identification and Eligibility of project type	NIL	NIL	NIL
General description of project activity	1	NIL	NIL
Application and selection of methodologies and standardized baselines	1		
<ul> <li>Application of methodologies and standardized baselines</li> </ul>	NIL	NIL	NIL
Deviation from methodology and/or methodological tool	NIL	NIL	NIL
<ul> <li>Clarification on applicability of methodology, tool and/or standardized baseline</li> </ul>	NIL	NIL	NIL
<ul> <li>Project boundary, sources and GHGs</li> </ul>	NIL	NIL	NIL
Baseline scenario	NIL	NIL	NIL
<ul> <li>Estimation of emission reductions or net anthropogenic removals</li> </ul>	NIL	NIL	NIL
Monitoring Report	1	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	2	NIL	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> <li>Project activity is described through UCR-approved PCN.</li> <li>UCR project communication agreement clearly defines the Project Proponent and Project Aggregator.</li> </ol>
Conclusion	The UCR-approved format is used for description and the project meets the requirement of the UCR verification standard and UCR project standard.
	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.  The project activity is overall meeting the requirements of the UCR Verification standard and UCR project standard.

# D.2 General description of project activity

Means of Project Verification	The project activity involves the operation of 2.6 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 Certificate for Share of Electricity.
Findings	<ol> <li>CL 1 is raised as the hub height in PCN and MR is not same.</li> <li>Project Commissioning date is mentioned in the commissioning certificate.</li> <li>Turbine Capacity is the same as mentioned in the commissioning certificate provided by GEDA.</li> <li>Project implementation and sale of energy abide the wheeling and/or power purchase agreement.</li> </ol>
Conclusion	CL-1 is closed as the wind model is S133-140 and hub height is 140 m.

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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.

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

#### 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 $tCO_2/MWh$ ) 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 which is the physical and geographical site of energy generation.
Conclusion	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.

#### D.3.4 Baseline scenario

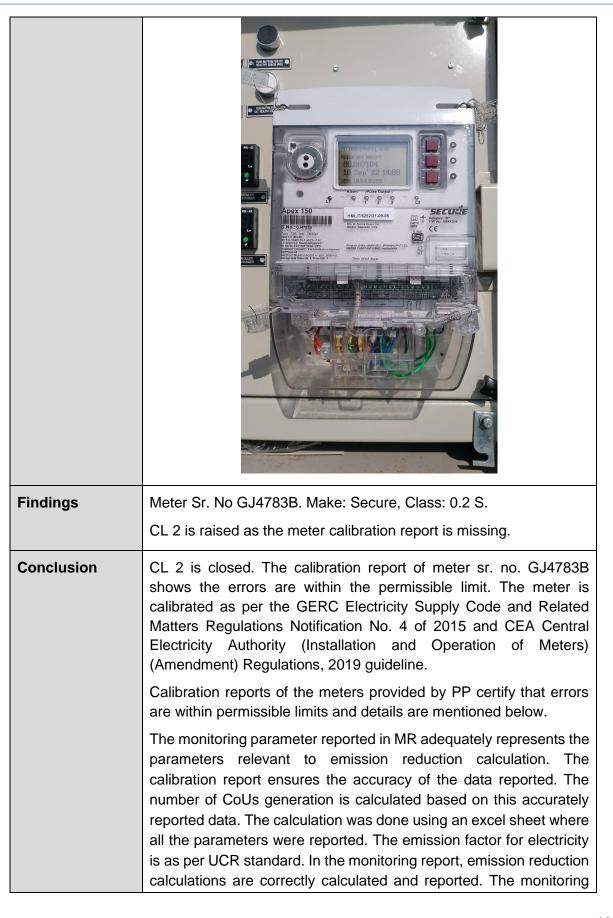
Means of Project Verification	MR Section C.5 and General Project Eligibility Criteria and Guidance, UCR Standard.
Findings	None
Conclusion	The baseline scenario is appropriately described. The calculated baseline emission for each vintage year of crediting period is rounded down as per UCR standard.

### 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	None	None					
Conclusion	document to coof the sample purposes.  The energy good certificate, wire	A certificate for 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 energy generation was also cross-checked with the wind farm certificate, wind farm scheduling adjustment calculation sheet, and PGVCL electricity bills.					
	Year EGpy (MWh) EFgrid,y ERs						
	2021 483 0.9 0						
	2022 8488.461 0.9 7639						
	ER (tCO <sub>2</sub> e) for the period of 2021 to 2022 7639						

### **D.3.6 Monitoring Report**

Means of Project Verification	Certificate for share of electricity, power purchase agreement, and general project eligibility criteria and guidance, <u>UCR</u> standard, page 4, meter calibration report
	Energy meter photos installed at the wind turbine.



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report	meets	the	requirements	of	UCR	project	verification
require	ments.						

### 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	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.
	The start date : 28/12/2021
	Crediting period : 28/12/2021 to 31/12/2022

### **D.5** Positive Environmental impacts

Means of Project Verification	PCN
Findings	None.
Conclusion	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

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. Project owner details;

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M/s Markwell Spinning Private Limited.
Address: Survey No 35/3/3, Rajkot Gondal State highway, Near toll Plaza, at. Pipaliya, Tal. Gondal, Dist-Rajkot-360311 Gujarat - India.

### **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:

- 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 - 2.6 MW Small Scale Wind Power Project by M/s Markwell Spinning Private

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Limited. (UCR ID -205) for the period 28/12/2021 to 31/12/2022 amounts to **7639** CoUs (**7639** tCO<sub>2</sub>e).

#### **G.** Abbreviations

Abbreviations	Full texts
UCR	Universal Carbon Registry
СРСВ	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.
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

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WTG	Wind Turbine Generator
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### 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

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 (2021-2022)	PA
7	GEDA	Commissioning certificate	PA
8	PGVCL & PP	Power purchase agreement/wheeling 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	PGVCL	Wind farm scheduling adjustment calculation sheet	PA
13	Hi-Tech Meter Laboratory	Calibration reports	PA
14	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	01	Section no.: D.2	General Description of Project Activity	<b>Date:</b> 07/04/2023
Description	of CI	_		
There is a h	ub hei	ight mismatch in PCN and Mi	₹.	
Project Owner's response Date: 10/04/2023				
The Hub height is 140 meters.				
Documentation provided by Project Owner				
Suzlon wind model S133-140 technical specification				
UCR Project Verifier assessment Date: 11/04/2023				
The provided information is found to be correct.				

CL ID	02	Section no.: D.3.6	Monitoring Report	<b>Date:</b> 07/04/2023	
Description	of Cl				
Meter calibr	ation i	s missing.			
Project Ow	Project Owner's response Date: 10/04/2023				
The meter is	The meter is calibrated by DGVCL Hi-Tech Meter Laboratory				
Documentation provided by Project Owner					
Calibration Report of the meter sr.no. GJ4783 B					
UCR Project Verifier assessment Date: 11/04/2023					
As per the meter calibration report, the errors are within the permissible limit.					

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

CAR ID		Section no.		Date:
Description of CAR				

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Project Owner's response	Date:			
Documentation provided by Project Owner				
UCR Project Verifier assessment	Date:			

### **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**







**Figure-1: Project Activity** 

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Ref: - GEDA/PWF/MSPL/02/2021-22/ 5126

Date: - 24/02/2022

### CERTIFICATE OF COMMISSIONING

This is to certify that M/s Markwell Spinning Private Limited, Survey No. 35/3/3, Rajkot Gondal National Highway, Near Toll Plaza, At. Pipaliya, Tal. Gondal, Rajkot - 360311 has commissioned 2.600 MW capacity wind farm consisting of 1 (One) number of new wind turbine generator as per the WTG ID no., location and date of commissioning given below:

Make of each Wind Turbine Generator (WTG)				M/s. Suzlon Energy Limited				
Capacity of each Wind Turbine Generator			2600 kW					
No.	No. of Wind Turbine Generator/s			1 No. (One)				
Tota	Total capacity of the Wind farm			2.600 MW				
C	Details of Site Installation					Location		
Sr. No.	Village	Taluka	District	Survey No.	Type of Land	No.	WTG ID No.	
01	Pasaya	Jamnagar	Jamnagar	121 (Old 73/1/p1)	Govt.	MOD018	SEL/2600/21-22/6412	

The wind farm is connected to 33/66kV Wind Farm site sub-station at Village: Modpar by 33kV grid line. The Modpar Wind Farm site sub-station is connected by 66 kV grid line to 66kV GETCO Suvarda Sub Station.

#### Electricity generation report for the purpose of commissioning of wind farm

Sr.	WITTER TO M.	Date	Time (Hrs.)		Meter (kWh)		
No.	WTG ID No.	Date	From	To	Initial	Final	Diff.
01	SEL/2600/21-22/6412	28.12.2021	18:04	18:29	70	302	232

For Gujarat Energy Development Agency

(P. S. Darji) Junior Program Officer

થોથો માળ, બ્લોક નં. ૧૧ અને ૧૨ ઉદ્યોગભવન સેક્ટર-૧૧, ગાંધીનગર - ૩૮૨ ૦૧૬. 4th Floor, Block No. 11-12, Udhyogbhavan, Sector-11, Gandhinagar-382017. India. Ph.: 079-232 57251-53 Fax: +91 79 232-47097, 57255 e-mail: director@geda.org.in www.geda.gujarat.gov.in

Figure-2: Commissioning certificate

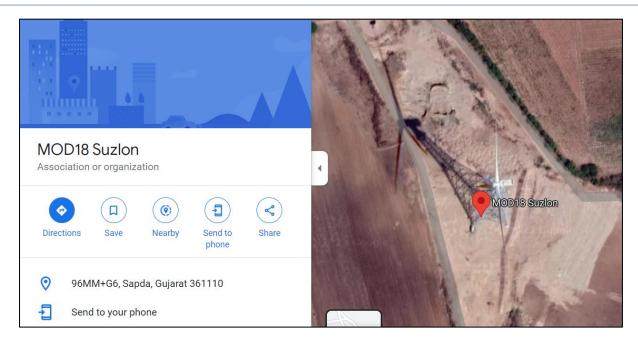


Figure-3: Google map photo of WTG 6412.