

"WIND BUNDLE PROJECT IN MAHARASHTRA BY SISPARA"

Project title	Wind bundle project in Maharashtra by Sispara.
Project ID	VCS 1660
Monitoring period	01-January-2023 to 31-December-2023 (Inclusive of both the days)
Original date of issue	15-March-2024
Most recent date of issue	14-July-2024
Version	1.2
VCS Standard Version	V 4.6
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PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The project activity is a Greenfield wind power generation activity. The project activity involves installation of 35.5 MW capacity wind power generation out of which 12 MW by M/s Sispara Renewable Power Private Limited (Project Proponent¹), 6 MW by M/s Kalsubai Power Private Limited, 10 MW by M/s Nilgiri Power Private Limited and 7.5 MW capacity wind power generation project by M/s NSL Wind Power Company (Sayamalai) Pvt. Ltd.

The project activity is generating clean electricity, which is being exported to the Maharashtra State Electricity Distribution Company Limited (MSEDCL), which is connected to the Unified Indian Grid System (earlier designated as the Northern, Eastern, Western and North-Eastern regional grids (NEWNE) grid of India).

This activity involves total installation and operations of following WTGs.

Project Developer	No of WTG	Supplier of WTG	Rated Capacity	Total Installed Capacity	Location
M/s Sispara Renewable Power Private Limited	œ	Regen Powertech Private Limited	1.5 MW	12 MW	Villages: Puklewadi & Chilarewadi Taluka: Maan District: Satara State: Maharashtra Country: India
M/s Kalsubai Power Private Limited	4	Regen Powertech Private Limited	1.5 MW	6 MW	Villages: Virali &Puklewadi, Taluka: Maan District: Satara State: Maharashtra Country: India
M/s Nilgiri Power Private Limited	5	INOX	2.0 MW	10 MW	Villages: Valsang ,Untwadi&Rawalgundwadi, Taluka: Jath District: Sangli State: Maharashtra Country: India
M/s NSL Wind Power Company (Sayamalai) Pvt. Ltd.	5	Regen Powertech Private Limited	1.5 MW	7.5 MW	Villages: Sahyadrinagar&Waki, Taluka: Jawali District: Satara State: Maharashtra Country: India
Total Project Capacity			35.5 MW		

The commissioning dates of the WTGs are listed in the Appendix 02

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¹ The project activity is a bundled project of total capacity 35.5 MW developed by four (4) project participants and the bundle has been represented by only one project proponent, i.e., M/s Sispara Renewable Power Pvt. Ltd.



The electricity generated by the project activity will be displacing the grid electricity which would have been otherwise generated through sources dominated by fossil fuel- based power plants at NEWNE grid² now Unified Indian Grid. The project activity reduces the emission of GHG gases which would have been generated in the absence of the project activity and also help to reduce the supply demand gap in the state with contribution in the sustainable development.

The project activity (i.e., total capacity of 35.5 MW) is expected to generate and export around **62,196 MWh** of electricity per annum to the NEWNE Grid. It is estimated that the project activity will contribute to GHG emission reduction of about **60,746 tCO₂e** annually and **607,460 tCO₂e** over ten years of the crediting period.

In current monitoring period the project activity has exported **71,358.10 MWh** of net electricity to the grid in the current monitoring period i.e., 01-January-2023 to 31-December-2023, inclusive of both start and end dates. The project activity has achieved GHG emission reduction of **69,695 tCO₂e** in this monitoring period.

1.2 Audit History

Audit type	Period ³	Program	Validation/verificati on body name	Number of years
Joint Validation/ Verification	13-February-2015 to 31- December-2016	VCS	LGAI Technological Center, S.A.(Applus+ Certification)	1 year, 10 months, 19 days
Verification	01-January-2017 to 30- September-2017	VCS	Earthood Services Pvt Ltd	00 Years 9 months 00 days
Verification	01-October-2017 to 31- August-2018	VCS	Earthood Services Pvt Ltd	00 Years 11 months 00 days
Verification	01-September-2018 to 31-October-2019	VCS	Earthood Services Pvt Ltd	1 year, 2 months 00 days
Verification	01-November-2019 to 31-October-2020	VCS	LGAI Technological Center, S.A. (Applus+ Certification)	1 year 00 months and 00 days
Verification	01-November-2020 to 31-August-2021	VCS	LGAI Technological Center, S.A. (Applus+ Certification)	00 Years 10 months 00 days

² The As per CEA database version 13 (released in June 2018) In previous years before April 2016, the Indian electricity system was divided into two grids, the NEWNE and Southern Grid. These are now integrated as a single "Indian Grid" covering all the states. Thus, the project activity earlier was considered under Southern Grid which is now referred as Indian Grid.

³ All these periods are inclusive of first & last dates.



Verification	01-September-2021 to 30-April-2022	VCS	VKU Certification Pvt. Ltd.	00 Years 8 months 00 days
Verification	01-May-2022 to 31- December-2022	VCS	VKU Certification Pvt. Ltd.	00 Years 8 months 00 days
Verification	01-January-2023 to 31- December-2023	VCS	VKU Certification Pvt. Ltd.	01 Years 00 months 00 days

1.3 Sectoral Scope and Project Type

Sectoral scope	01, Energy Industries (renewable-/non-renewable sources)
Project activity type	I, Renewable energy projects

Sectoral scope	NA
AFOLU project category	NA
Project activity type	NA

1.4 Project Proponent

Organization name	M/s Sispara Renewable Power Private Limited
Contact person	A. Rajnikant.
Title	Head – Wind Projects & Operations
Address	Road No. 12, Banjara Hills, #8-2-684/2/A, NSL ICON Hyderabad, Telangana.
Telephone	+91-040-3051 4444
Email	rajnikant.a@nslpower.com

1.5 Other Entities Involved in the Project⁴

Organization name	M/s Kalsubai Power Private Limited
Role in the project	Project Proponent
Contact person	Mr. A. Rajnikant
Title	DGM - Power Division
Address	NSL ICON, 4 th Floor, #8-2-684/2/A, Road No. 12, Banjara Hills, Town / City: Hyderabad, Andhra Pradesh, PIN: 500034, India.

⁴ The project activity is a bundled project of total capacity 35.5 MW developed by four (4) project participants and the bundle has been represented by only one project proponent, i.e., M/s Sispara Renewable Power Pvt. Ltd & other project proponents are listed in this section.



Telephone	+91 40 3051 4444
Email	rajnikant.a@nslpower.com

Organization name	M/s Nilgiri Power Private Limited
Role in the project	Project Proponent
Contact person	Mr. A. Rajnikant
Title	DGM - Power Division
Address	NSL ICON, 4 th Floor, #8-2-684/2/A, Road No. 12, Banjara Hills, Town / City: Hyderabad, Andhra Pradesh, PIN: 500034, India.
Telephone	+91 40 3051 4444
Email	rajnikant.a@nslpower.com

Organization name	M/s NSL Wind Power Company (Sayamalai) Pvt. Ltd
Role in the project	Project Proponent
Contact person	Mr. A. Rajnikant
Title	DGM - Power Division
Address	NSL ICON, 4 th Floor, #8-2-684/2/A, Road No. 12, Banjara Hills, Town / City: Hyderabad, Andhra Pradesh, PIN: 500034, India.
Telephone	+91 40 3051 4444
Email	rajnikant.a@nslpower.com

1.6 Project Start Date

Project start date	13-February-2015
Justification	The start date of the project activity has been considered as the date of commissioning of the first WTG WA-02, installed on 13-February-2015
	AS per VCS Standard version 4.6, Clause 3.8 The Project start date is the date on which the project began reducing or removing GHG emissions i.e., the commissioning date of the project.



1.7 Project Crediting Period

Crediting period	☐ Seven years, twice renewable
	⊠ Ten years, fixed
	□Other
Start and end date of first	Type of crediting period: Fixed
or fixed crediting period	Start date of the crediting period: 13-February-2015
	End date of the crediting period: 12-February-2025
	As per latest VCS standard version 4.6 where Appendix 3
	states that "Registered VCS projects and projects that
	request registration with the VCS Program on or before 31-
	December-2019 remain eligible under the VCS Program for
	the entirety of their crediting periods" The Project completed
	validation before 31-December-2019 i.e. on 29-August-2018
	and chose to use the crediting period requirements under
	VCS version 3.

1.8 Project Location

Project activity is located in the Satara and Sangli district of Maharashtra State, India. The location maps are included below. The details of geo-coordinates are as follows:

Location of 8 WTGs from M/s Regen Powertech Private Limited (By: M/s Sispara Renewable Power Private Limited) are as follows:

S. No.	WTG No.	UTM (Universal Transverse Mercator) format		DD-MM-SS (Degree/minutes/Seconds) format		Location
		Easting Northing (m)		Latitude N	Longitude E	
1	NSL-27	465753	1937901	17° 31′ 37.72″	74° 40′ 38.44″	Village: Chilarwadi Taluka: Maan District: Satara
2	NSL-25	465969	1937519	17° 31' 25.30"	74° 40' 45.79"	Village: Chilarwadi Taluka: Maan District: Satara
3	NSL-35	464609	1938944	17°32′11.59″	74° 39' 59.58"	Village: Puklewadi Taluka: Maan District: Satara
4	NSL-24	466130	1937338	17° 31′ 30.34″	74° 40' 40.70"	Village: Chilarwadi Taluka: Maan District: Satara



5	NSL-29	465638	1938283	17° 31' 50.14"	74° 40' 34.52"	Village: Puklewadi Taluka: Maan District: Satara
6	NSL-38	464134	1939494	17° 32' 29.47"	74° 39' 43.44"	Village: Puklewadi
6	NSL-38	464134	1939494	11032 29.41	74° 39 43.44	Taluka: Maan
						District: Satara
_	NOL OO	404050	4000440	47.001.00.04"	74. 401.07.00"	Village: Puklewadi
7	NSL-39	464853	1939448	17° 32' 28.01"	74° 40' 07.83"	Taluka: Maan
						District: Satara
	NOL 40	404050	4000740	47. 20, 20, 00,	740 401 07 74"	Village: Puklewadi
8	NSL-40	464850	1939719	17° 32′ 36.83″	74° 40' 07.71"	Taluka: Maan
						District: Satara

Location of 5 WTGs from M/s INOX (By M/s Nilgiri Power Private Limited) are as follows:

S. No.	WTG No.	G No. UTM (Universal Transverse Mercator) format Easting (m) Northing (m)		DD-M (Degree/minu forn	tes/Seconds)	Location
				Latitude N	Longitude E	
1	MV2T-21	530786	1876559	16º 58' 21.76"	75° 17' 21.05"	Village: Rawalgundwadi Taluka: Jath District: Sangli
2	MV2T-24	530439	1875187	16° 57' 37.13"	75° 17' 09.25"	Village: Rawalgundwadi Taluka: Jath District: Sangli
3	MV2T-84	527995	1885615	17° 03′ 16.59″	75° 15' 47.09"	Village: Jath Taluka: Jath District: Sangli
4	MV2T-37	529281	1879694	17° 00' 03.85"	75° 16′ 30.31″	Village: Untwadi Taluka: Jath District: Sangli
5	MV2T-95	532093	1889113	17° 05′ 10.23″	75° 18' 05.90"	Village: Valsang Taluka: Jath District: Sangli

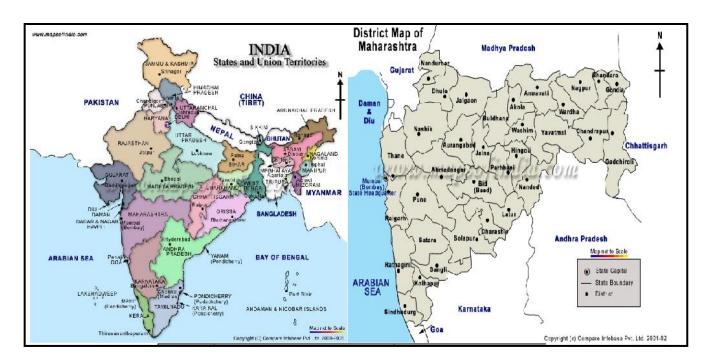
Location of 5 WTGs from M/s Regen Powertech Private Limited (By M/s NSL Wind Power Company (Sayamalai) Pvt. Ltd.) are as follows:

S. No.	WTG No.	UTM (Universal Transverse Mercator) format		(Universal Transverse (Degree/minutes/Seconds)		Location
NO.		Easting (m)	Northing (m)	Latitude N	Longitude E	
1	WA-01	368708	1968639	17°48'04.77	73°45'40.49"	Village: Waki Taluka: Jawali District: Satara

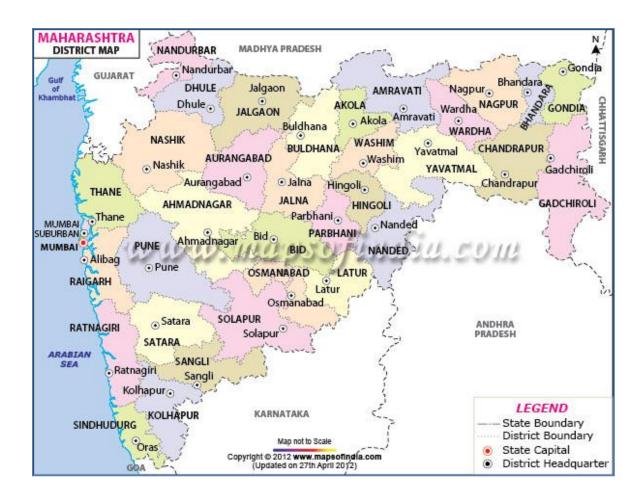


2	S-05	371954	1963633	17°45'22.60	73°47'31.82"	Village: Sahyadrinagar Taluka: Jawali District: Satara
3	S-06	370038	1968025	17°47'45.07"	73°46'25.80"	Village: Sahyadrinagar Taluka: Jawali District: Satara
4	S-03	371271	1964224	17°45'41.68	73°47'08.50"	Village: Sahyadrinagar Taluka: Jawali District: Satara
5	WA-02	368870	1968437	17°47'58.23	73°45'46.04"	Village: Waki Taluka: Jawali District: Satara

The spatial extent of this project activity includes the project site and all the power plants connected physically to the electricity system that the project is connected to, i.e., the NEWNE Grid now Unified Indian Grid. Thus, the project boundary includes all the power plants physically connected to the NEWNE grid:







1.9 Title and Reference of Methodology

Type (methodology, tool or module).	Reference ID, if applicable	Title	Version
I – Renewable Energy Projects	ACM0002	Large scale Consolidated Methodology Grid connected electricity generation from renewable sources".	17.0 ⁵ .
Tool	07	Tool to calculate the emission factor for an electricity system	Version 5.0 ⁶
Tool	01	Tool for the demonstration and assessment of additionality	Version 7.0 ⁷

⁵ https://cdm.unfccc.int/UserManagement/FileStorage/D5YFS9I3VKBT18MQNGX0LPZ6U7AWCO

⁶ https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v5.0.pdf

⁷ am-tool-01-v7.0.0.pdf (unfccc.int)



1.10 Double Counting and Participation under Other GHG Programs

1.10.1 No Double Issuance

☐ Yes

	Is the project receiving or seeking credit under another GHG program? □ Yes		reductions and removals from a project activity No
1.10.2	Registration in Other GHG Program	ns	
	Is the project registered or seeking regis	trat	on under any other GHG programs?

 \boxtimes No

The project may have been eligible to participate in different mechanism such as REC etc. to create another form of GHG related environmental credits; however, project has never been applied under any such mechanism other yet.

The host country (i.e., India) of the project activity is a non- Annex 1 country; hence, the project does not have any compliance driven emission trading program or other binding limits.

However, the sub-projects are listed as part of CDM project individually as follows:

Project developer	Project Title under CDM	Current status
M/s Sispara Renewable Power Private Limited	Wind Power Project by M/s Sispara Renewable Power Private Limited in Maharashtra, India.	Under Validation
M/s Kalsubai Power Private Limited	Wind Power Project by M/s Kalsubai Power Private Limited in Maharashtra, India.	Under Validation
M/s Nilgiri Power Private Limited	Wind Power Project by M/s Nilgiri Power Private Limited in Maharashtra, India	Under Validation
M/s NSL Wind Power Company (Sayamalai) Pvt. Ltd.	Sayamalai Wind Power Project in Maharashtra, India	Under Validation

Nevertheless, the projects have not been taken further in CDM, only pursued under VCS. The PP declares that projects are not taken ahead under CDM and also confirms that the Net GHG emission reductions or removals generated by the Project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions in any Emission Trading program or other binding limits any specific monitoring period under two mechanisms. The project has not sought or received any other form of GHG related environmental credit



including renewable energy certificates (REC or iREC), during this monitoring period and declaration has been submitted to the VVB.

1.11 Double Claiming, Other Forms of Credit, and Scope 3 Emissions

1.

.11.1	No Dou	uble Claiming with E	imissions Trading Programs or Binding Emission Limits
	program		novals or project activities also included in an emissions trading nit? See the VCS Program Definitions for definitions of emissions nission limit.
	[□ Yes	⊠ No
.11.2	No Dou	uble Claiming with C	Other Forms of Environmental Credit
	related 6		t, received, or is planning to receive credit from another GHG-ystem? See the VCS Program Definitions for definition of GHG-stem.
	[□ Yes	⊠ No
.11.3	Supply	Chain (Scope 3) En	nissions
	=	roject activities affect t of a supply chain?	the emissions footprint of any product(s) (goods or services) that
	[☐ Yes	⊠ No
	If yes:		
	=	oject proponent(s) or a r services) that are par	uthorized representative a buyer or seller of the product(s) t of a supply chain?
	[□ Yes	⊠ No
	If yes:		
	website [project propone	saying, "Carbon credit ID] for the greenhouse nt or authorized repr	or authorized representative posted a public statement on their is may be issued through the Verified Carbon Standard project agas emission reductions or removals associated with [project esentative organization name(s)] [name of product(s) whose by the project activities]."
	[□ Yes	⊠ No



1.12 Sustainable Development Contributions

The electricity generated by the project activity is displacing the grid electricity which would have been otherwise generated through sources dominated by fossil fuel-based power plants at NEWNE grid now Unified Indian Grid.

Thus, the project activity reduces the emission of GHG gases and also helps to reduce the supply demand gap in the state with contribution in the sustainable development The project contributes in achieving nationally stated sustainable development priorities like providing direct & indirect employment generation during construction & operation phase. Also, helps in country energy security by generating electricity from renewable source etc. Since the project is continuation of activity as per the registered PD, it is a regulatory surplus activity. The green energy target of the Govt of India does not include green energy generated from wind turbines from private parties.

This project aims to achieve multiple well-being goals:

- Social well-being: It focuses on enhancing local employment opportunities in the rural
 area surrounding the project and empowers vulnerable sections of the community
 residing in the project area.
- **Economic well-being:** The project has created small business opportunities during both the construction and operation phases, benefiting local stakeholders like bankers, suppliers, manufacturers, and contractors.
- Environmental well-being: The project contributes to sustainable development by generating eco-friendly power. Additionally, it aids in reducing greenhouse gas (GHG) emissions and other pollutants such as sulfur dioxide (SOx), nitrogen oxides (NOx), particulate matter (PM), etc.
- Technological well-being: It helps increase the share of renewable energy power generation in the region and promotes the adoption of clean, renewable, and efficient technologies.



Table 1: Sustainable Development Contributions

The project is wind power project, it has generated **71,358.10 MWh** electricity and avoided **69,695 tCO₂e** in the atmosphere during the current monitoring period. So, the project will contribute to the sustainable development and it is fulfilling SDG 07 and SDG 13.

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
1)	7.2	energy share in	Implemented Renewable Energy grid connected project to increase the RE share in total grid mix	grid during the current	About $(32,184.85^8 + 58,768.79^9 + 71,358.10^{10} = 162,311.74)$ MWh renewable electricity has supplied to Indian grid that helps to increase the renewable energy share in the energy mix. ¹¹

⁸ Contribution to the last i.e., 7th monitoring period from 01-September-2021 to 30-April-2022 (Inclusive of both the days)

⁹ Contribution to the last i.e., 8th monitoring period from 01-May-2022 to 31-December-2022 (Inclusive of both the days)

¹⁰ Contribution to the current monitoring period from 01-January-2023 to 31-December-2023 (Inclusive of both the days)

¹¹ As per VERRA's guidelines to claim SDGs for contributions Over Project Lifetime "*The cumulative impact should be calculated by summing the current project contributions with all impacts included in previously approved VCS monitoring reports or Sustainable Development Contribution Reports*, PP has only claimed the SDGs in last 7th & 8th verification hence in this Monitoring period, PP is only applying values of last two verifications along with current monitoring period.



:	2)	8.5	generation from	Implemented Renewable energy power generation project activity has generated direct and indirect employment	got direct employment.	Project is eligible to generate this SDG benefits. However, project is not claiming this SDG benefit Hence not quantifying the same here.
	3)	13.2		Implemented activities to increase avoidance of emissions	69,695 tCO ₂ e has been prevented by the project activity during the current monitoring period.	Prevented the release of $(31,434^{12}+57,399^{13}+69,695^{14}=158,528)$ tCO ₂ e into the atmosphere.

1.13 Commercially Sensitive Information

There is no commercially sensitive information applicable for the current monitoring period

¹² Contribution to the last i.e., 7th monitoring period 01-September-2021 to 30-April-2022 (Inclusive of both the days)

¹³ Contribution to the current monitoring period 01-May-2022 to 31-December-2022 (Inclusive of both the days)

¹⁴ Contribution to the current monitoring period 01-January-2023 to 31-December-2023 (Inclusive of both the days)



2 SAFEGUARDS AND STAKEHOLDER ENGAGEMENT

2.1 Stakeholder Engagement and Consultation

2.1.1 Stakeholder Identification

Stakeholder Identification	At the time of validation, the stakeholders were identified. NSL identified the following local stakeholders to be associated with the project activities, directly or indirectly. The typical groups of the stakeholders identified are 1. Local villagers 2. Local Gram Panchayat Members 3. Local Employees
Legal or customary tenure/access rights	There is not any legal or customary tenure/access rights to territories and resources, including collective and conflicting rights, held by stakeholders, indigenous people (IPs), local communities (LCs), and customary rights holders.
Stakeholder diversity and changes over time	The social, economic, and cultural diversity within stakeholder groups remained stable over time. Interactions between groups were consistent, and there were no significant changes in the composition of each group observed during the monitoring period.
Expected changes in well-being	In the baseline scenario, there are no alterations to the well-being or other characteristics of stakeholders. This includes the preservation of ecosystem services that stakeholders deem important. There are no changes in well-being and other stakeholder characteristics including changes to ecosystem services identified as important to stakeholders, recorded during the current monitoring period. The operation & maintenance staff and other workers are housed in the plant premises itself. Their quality of life is expected to improve. Some of the local villagers who can qualify for the job are getting preference. It is desirable to impart skill development training to eligible youths so that they can



	find jobs in wind project.
Location of stakeholders	Project activity is located in the Satara and Sangli district of Maharashtra State.
	Stakeholders, which include local communities, indigenous peoples, and customary rights holders, are primarily located within the project area and its immediate vicinity. Areas beyond the project boundary that do not experience indirect impacts, such as environmental changes or socioeconomic shifts, are not considered due to the nature of the wind project.
	As the project does not involve forest land, there are no legal or customary tenure/access rights over territories and resources, including collective and conflicting rights held by stakeholders, indigenous peoples, local communities, or customary rights holders that need to be considered. While "Indigenous People" is a term without a universal definition, in India they are officially categorized as Scheduled Tribes under the Fifth Schedule of the Constitution. However, since the project site in District: Satara & Sangli, State: Maharashtra is not a Scheduled Area, no specific indigenous peoples or local communities have been identified within the project's implementation boundaries.
Location of resources	Since wind projects usually occupy small physical footprints, stakeholders' territories and resources typically do not directly overlap with the project area. However, stakeholders may have customary access to land or resources located in nearby regions. These territories might encompass agricultural lands, grazing areas, or culturally significant sites. Recognizing and respecting these territories are crucial for ensuring effective stakeholder engagement and project planning.

2.1.2 Stakeholder Consultation and Ongoing Communication

Ongoing consultation

During the current monitoring period, the project proponent has actively engaged and consulted with stakeholders, adhering to the validated communication strategy. The proponent has established an



Input/Grievance Register at the project site, strategically located both at the administrative office within the plant premises and at the main entrance (Main Gate) of the plant. These locations ensure easy accessibility for local stakeholders to provide feedback on the project. All local stakeholders were made aware of this grievance redressal mechanism during the Local Stakeholder Consultation (LSC) Meeting held at the time of project validation. Furthermore, complementing the grievance register, the proponent has installed a comment/suggestion box at the main gate of the plant, offering stakeholders an additional channel to submit their feedback, comments, or suggestions regarding the project.

Date(s) of stakeholder consultation

The stakeholder meeting was conducted on 30-November-2014 at local Site office in Satara district, Maharashtra in coordination with ReGen Power Tech Private Limited and Inox Wind Limited, the technology provider. All the stakeholders were informed about the agenda, venue and date of the meeting through News Paper advertisement had been published in order to invite a broad range of stakeholders that may have direct or indirect access to the project or any of its concerns.

Further, a project concept note, which gives a clear idea on the project activity including the measures taken under the project and the benefits achieved by the project, was also issued along with the notices as information to the concern stakeholder.

An attendance record sheet was maintained for all the attendees and comments/feedback received from the stakeholders during the meeting were recorded and compiled in the minutes of meeting.

Communication of monitored results

Monitoring results were shared through the grievance register by documenting grievances, conducting investigations, and documenting resolutions.

For ongoing communication, PP maintains a grievance register and a complaint box for stakeholder feedback and utilizes stakeholder engagement platforms to ensure transparency and accountability.



Consultation records

The results of stakeholder consultations were documented using a variety of methods, including meeting minutes, reports, surveys, and feedback forms.

Upon receiving a comment or grievance, it must be acknowledged, and a copy is stored in the Grievance Register. The Grievance Redressal Officer (GRO) may decide to take action or, in cases where further suggestions or approval from the management is required, it shall be discussed and resolved during the monthly management meetings.

Once a comment or grievance is received, it must be presented to the management during the monthly meeting, along with the action taken to resolve it. If any input or approval is required from the management, it shall be discussed and resolved during these monthly management meetings. The management may decide to further assess or conduct additional investigations if deemed necessary.

Stakeholder input

Concerns and responses as recorded during the meeting at the sites of the wind farm area:

All the stakeholders were happy in knowing that the project activity in their locality is contributing to a global cause and they commended the NSL management for their initiatives in the areas of climate change and sustainable development. In particular, the stakeholders lauded the project promoters for the environment friendly power generation using wind.

Local Population: The villagers expressed their pleasure with the setting up of the power project as it had provided the rural population with permanent employment opportunities. Indirect employment generated as result of the project activity was highlighted by the villagers. The increase in the land prices subsequent to the setting up of the project was a welcome boon for the villagers.

In the meeting, the stakeholders were briefed about the project activity in the local language and were informed as to how power is generated using wind energy. They were then informed about global warming and its causes and the effects. Subsequently, they were introduced to the



concept of Carbon Credits, Sustainable developments and associated socio-economical aspects of such projects. Also, it was discussed as to how the project helps in mitigating Greenhouse Gas (GHG) emissions. The stakeholders were then invited to provide their comments on how the project activity had affected their lives and about their expectations, remarks etc. related to the project activity.

There was no adverse comment received regarding the project activity; whereas all the queries or remarks were satisfactorily addressed during the meeting. The stakeholders were very observant and supportive to the project, the meeting was concluded on positive notes. All the documents related to stakeholders meeting have been made available for validation.

Employees: The local population hired for the project activity are pleased with the employment opportunity available to them which was absent in the region prior to the commissioning of the plant.

During current monitoring period any input received during the consultation will be thoroughly reviewed and analyzed to ensure that stakeholders' perspectives are duly considered. However, no inputs were received during the current monitoring period.

2.1.3 Free, Prior, and Informed Consent

Consent

Consent from concerned parties, including Indigenous Peoples (IPs), local communities (LCs), and customary rights holders, was obtained through a transparent and inclusive process. This involved engaging in meaningful dialogue, providing relevant information in accessible formats, and addressing any concerns or questions raised. Agreements were reached through consensus-building, ensuring that all parties had the opportunity to express their views and negotiate terms. Transparency was maintained by documenting the process and agreements reached, and ensuring that all stakeholders understood the implications of their consent. There are no ongoing or unresolved conflicts, demonstrating that the project does



not exacerbate or influence the outcomes of unresolved conflicts. Outcome of FPIC The Free, Prior, and Informed Consent (FPIC) process culminated in a transparent agreement between the project proponent and all concerned parties, including Indigenous Peoples (IPs), local communities (LCs), and customary rights holders. Before finalizing this agreement, the project provided comprehensive information about its scope, potential impacts, and mitigation measures in accessible formats and local languages during Local Stakeholder Consultation (LSC). It was ensured that the project did not encroach on any land, relocate people, or cause forced physical or economic displacement. All activities have been conducted in accordance with the terms outlined in the transparent agreement, ensuring the protection of the rights and interests of all stakeholders involved.

2.1.4 Grievance Redress Procedure

Grievances received	Resolution and outcome
No Grievance was recorded during current monitoring period,	To maintain ongoing communication with stakeholders, a grievance register mechanism has been established, known as the "Grievance Register," located at the project site office and accessible to all stakeholders. Community members can visit the project site to share their complaints, feedback, or comments in this register. If the comments are deemed genuine, immediate action will be taken.
	A copy of the grievance register is retained at the project site. However, no feedback or grievances have been reported during this monitoring period, resulting in no applicable or relevant outcomes from this ongoing communication with local stakeholders.



2.1.5 Public Comments

Summary of comments received

Actions taken

Provide a summary of each comment received in each row

During the current monitoring period, no comments or grievances were registered, nor were any received outside of the designated public comment period. Consequently, no actions were necessitated, and the project design remained unaltered.

Reaffirming its commitment to continuous stakeholder engagement, the project proponent has instituted a robust feedback mechanism. This includes maintaining a dedicated grievance register and a complaint/suggestion box, ensuring open channels for stakeholders to voice their concerns or provide input. This underscores proactive approach the dedication effective proponent's to communication and timely resolution of any potential issues.

To date, no major comments or protests have been raised by the stakeholders, reflecting the project's broad acceptance and support from the local community. The stakeholders have wholeheartedly embraced the establishment of this project in the region, recognizing its potential benefits and aligning with their aspirations for sustainable development.

The proponent's steadfast commitment to transparent and inclusive stakeholder engagement, coupled with the community's overwhelming endorsement, has fostered an environment of trust and collaboration, paving the way for the project's successful implementation and long-term sustainability.



2.2 Risks to Stakeholders and the Environment

	Risk identifi ed	Mitigation or preventative measure taken
Risks to stakeholder participation	No risk identified	Stakeholder participation in wind projects poses minimal risk due to the clean nature of wind energy production, which does not emit pollutants. This fosters positive community relationships and reduces potential health and environmental concerns, ensuring smoother project implementation and garnering support from the community. The project does not pose any risks to stakeholder participation. The PP is ensuring Open and transparent dialogue with the stakeholders. The women's participation in the consultation is being ensured.
Working conditions	No risk identified	Stakeholder participation in wind projects poses negligible risks when the systems are operational. Wind technology typically operates reliably with minimal maintenance requirements, ensuring consistent energy generation and stakeholder satisfaction. The project proponent has exhibited an unwavering commitment to maintaining exceptional operational standards, placing the utmost emphasis on safeguarding the well-being and security of every individual involved. Through a meticulous implementation of stringent safety protocols, comprehensive training initiatives, and the provision of appropriate personal protective gear, the project has effectively mitigated any potential risks associated with the working environment. Moreover, the proponent's practices are resolutely aligned with fair employment principles, upholding internationally recognized human and labor rights, as well as labor standards. By prioritizing equitable remuneration, job stability, and opportunities for skill enhancement, the project has not only ensured the welfare of its personnel but has also made a significant contribution to the socio-economic progress of the region. It is evident that the working conditions within the project are exemplary, reflecting the proponent's steadfast dedication to fostering a secure, prosperous, and sustainable professional environment. This commitment has been consistently demonstrated through actions that prioritize the well-being and growth of the workforce, ultimately benefiting both the



		individuals involved and the broader community.		
Safety of	No risk	Ensuring the safety of women and girls in the project involves		
Safety of women and girls	No risk identified	Ensuring the safety of women and girls in the project involves comprehensive risk assessment and mitigation strategies. Measures such as well-lit areas, security patrols, gendersensitive policies, and training on harassment prevention help mitigate risks, fostering a safe environment for all stakeholders and workers. The project proponent upholds an unwavering commitment to providing a secure and conducive professional environment for all individuals involved. Through stringent adherence to comprehensive safety protocols and strict compliance with pertinent Indian regulations, including The Factories Act, 1948 and The Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act, 2013, the proponent has effectively mitigated potential risks to the safety and well-being of women and girls. Complementing these measures, the proponent champions extensive training initiatives and cultivates a culture of respect, equality, and empowerment. This holistic approach has fostered an inclusive work environment where every individual feels valued, protected, and empowered to contribute to the project's success without fear of harm or discrimination. Consequently, it can be affirmed with confidence that the project provides a safe, secure, and enabling workplace for women and girls, creating an environment that actively encourages and supports their participation, professional growth, and meaningful contributions.		
Safety of	No risk	While wind projects generally entail minimal or no risks to		
minority and marginalized groups, including children	identified	minority and marginalized groups, comprehensive safety measures have been implemented. This includes ensuring safe access to project sites, implementing child protection policies, and addressing any potential social or economic impacts on marginalized communities, thereby safeguarding their well-being throughout project development and operation.		
Pollutants	No risk	The projects' lack of pollutants substantially reduces risks to		
(air, noise, discharges to water, generation of waste, release of	identified	stakeholders, including potential health hazards or environmental contamination. This inherent cleanliness fosters a safer environment for communities, minimizing concerns related to air and water quality, noise pollution, waste generation, and exposure to hazardous materials, ensuring overall safety and well-being.		



hazardous materials)

2.3 Respect for Human Rights and Equity

2.3.1 Labor and Work

Discrimination and sexual harassment

No instances of discrimination or sexual harassment have been reported or identified within the project. This is ensured through the implementation of comprehensive policies and training aimed at preventing and promptly addressing such issues.

The project proponent demonstrates an unwavering commitment to fostering a respectful and inclusive workplace environment, adhering strictly to the provisions outlined in the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013. In accordance with Chapter IV, Article 19 "Duties of Employer" clause (a), the proponent has implemented robust measures to ensure a secure working atmosphere, safeguarding all personnel from any potential harm or misconduct from individuals they may encounter within the professional setting.

During the current monitoring period, no incidents of discrimination or sexual harassment have been reported or identified within the scope of the project's operations. This commendable record is a testament to the proponent's comprehensive policies and extensive training initiatives, which are designed to prevent and address such issues promptly and effectively, should they arise.

The proponent's proactive approach and zero-tolerance stance towards any form of harassment or discrimination have cultivated an environment where every individual can thrive, contribute, and feel valued, without fear of prejudice or mistreatment. This commitment to upholding the highest standards of professional conduct and promoting a culture of mutual respect aligns with the project's broader goals of sustainable and responsible development.

Management experience

No new entities are involved in in project design or implementation. The initially engaged management is experienced enough to handle the implementation of the project activity.

Gender equity in labor and work

Equal opportunities for gender equity and fair pay are guaranteed through transparent hiring practices, non-discriminatory policies, and regular pay scale reviews to rectify any disparities. Ongoing training



Human trafficking, forced labor, and child labor

programs also foster gender inclusivity and address unconscious biases in the workforce. The Project Proponent ensures equal wage pay to its employees keeping them in line with the minimum wage criteria as per state labor laws.

The project has implemented stringent ethical sourcing policies, which include the comprehensive vetting of suppliers and contractors to ensure compliance with labor laws and human rights standards. Regular audits and inspections are carried out to verify that the project's supply chain and workforce are free from human trafficking, forced labor, or child labor. The company policy restricts hiring of any such employee involved in such practices. The project remains under strict surveillance of the project proponent & the state DISCOM, any malpractice at the project implemented site will be immediately reported and strict actions will be taken. Since the date of project start date, PP has not encountered any such activity at the project site.

2.3.2 Human Rights

The project proponent exhibits an unwavering dedication to recognizing, respecting, and actively promoting the protection of human rights, despite the absence of identified indigenous peoples, local communities, or customary rights holders within the project's scope. This commitment is exemplified through the proponent's proactive engagement with stakeholders, fostering ongoing communication channels and facilitating purposeful interactions throughout the project's lifecycle.

Complementing this approach, the project incorporates robust grievance redressal mechanisms, providing a platform for stakeholders to voice their concerns and lodge grievances effectively. Furthermore, the presence of a comment/feedback box reinforces the proponent's commitment to open communication, ensuring that stakeholders' voices are heard, acknowledged, and duly considered.

Through the implementation of these practices, the project aligns itself with applicable international human rights frameworks, including the United Nations Declaration on the Rights of Indigenous Peoples and the International Labour Organization (ILO) Convention 169 on Indigenous and Tribal Peoples. This alignment underscores the proponent's steadfast commitment to promoting the rights and safeguarding the welfare of indigenous peoples, local communities, and customary rights holders, even in contexts where they are not directly identified as stakeholders.

2.3.3 Indiaenous Peoples and Cultural Heritage

Despite the absence of identified cultural heritage sites and any interference with conservation or preservation areas within the project activity, the project remains committed to preserving and protecting cultural heritage as an integral aspect of its activities. Proactive measures are



taken, including thorough cultural heritage assessments during planning, strict protocols to minimize disturbances, and collaboration with local communities. By prioritizing cultural heritage preservation, the project upholds its commitment to responsible and sustainable development practices.

2.3.4 Property Rights

Disputes over rights to territories and resources	N/A Since there are no disputes over rights to territories and resources, hence nothing can be stated here.
Respect for property rights	The project proponent remains vigilant in implementing ongoing measures to safeguard property rights, underpinned by a firm commitment. This principled approach extends to respecting customary rights and ensuring that compensation processes are conducted with utmost transparency and equity.
	Furthermore, the proponent has established robust channels for regular consultations and maintains effective grievance mechanisms, enabling prompt addressal of any concerns that may arise. Notably, no incidents pertaining to property rights violations have been reported at the time of validation, during previous verifications, or throughout the current monitoring period.
	This exemplary track record is a testament to the proponent's unwavering dedication to ethical business practices and its steadfast adherence to the highest standards of integrity. By prioritizing open dialogue, upholding commitments, and fostering an environment of mutual respect, the project sets a commendable precedent for responsible development while safeguarding the rights and interests of all stakeholders involved.

2.3.5 Benefit Sharing

Summary of the plan	e benefit sharing	NA
Benefit sharing monitoring peri		NA



2.4 Ecosystem Health

	Risk identified	Mitigation or preventative measure taken during the monitoring period
Impacts on	No risk	Throughout the monitoring period, no adverse effects on
biodiversity	Identified	biodiversity or ecosystems were observed in the project. Wind
and		projects are generally recognized as environmentally benign,
ecosystems		with minimal impact on surrounding ecosystems.
Soil	No risk	Throughout the monitoring period, no instances of soil
degradation	Identified	degradation or erosion were identified in the project area.
and soil		Wind projects typically employ land management practices
erosion		that minimize soil disturbance, ensuring the preservation of soil health and stability.
Water	No risk	Throughout the monitoring period, no concerns regarding
consumption	Identified	water consumption or stress were identified within the
and stress		project. Wind installations generally have minimal water requirements, reducing strain on local water resources and ecosystems.
Usage of	No risk	Project is a renewable energy project activity and does not
fertilizers	Identified	involve in any plantation. Therefore, the is no risk associated with the usage of fertilizers.

2.4.1 Rare, Threatened, and Endangered species

Species or habitat	The Project is located in the District Satara & Sangli, state of
	Maharashtra, Country: India and there is no endangered species in
	the area where the project activity is implemented. There was no
	rare, threatened & endangered species found during the monitoring
	period, neither reported at the time of project registration.

2.4.2 Introduction of species

Species introduced	Classification	Justification for use	Adverse effects and mitigation
N/A	N/A	N/A	N/A

Existing invasive species	Mitigation measures to prevent spread or continued existence of invasive species
N/A	N/A

2.4.3 Ecosystem conversion

Ecosystem conversion in wind projects is justified by the transition to renewable energy sources, mitigating climate change, reducing reliance on fossil fuels, and fostering sustainable development for future generations.



3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project activity consists of 22 WTGs implemented by the four project developers as listed in the section 1.1. The projects WTGs have been bundled together as new project activity from the beginning and there is no any new instance applicable to the project activity at this stage).

The implementation status of the project activity includes the following information:

The project activity has been in operation since its date of commissioning. The first WTG i.e., WA-02 (M/s NSL Wind Power Company (Sayamalai) Pvt. Ltd) was commissioned on 13-February-2015. More information on WTGs commissioning is mentioned in Appendix 02 below

There is no any major event of non-operational phase during the monitoring period. However, there was increase in generation during the monitoring period as compared to a projected value which was mainly due to less downtime during availability of wind and high PLF.

There are no any other changes related to the project proponent or project observed. Project is implemented and operational as per the VCS Project description submitted:

The Technical Specifications of the WTGs are provided in the Appendix 01 of this report.

The project activity has been in operation since its date of commissioning. No events have happened that may impact the GHG emission reductions or removals and monitoring during this monitoring period. There are no changes related to the project proponent or project observed. Project is implemented and operational as per the VCS Project description submitted.

During the current monitoring period, all the WTGs were operational. The project activity has supplied **71,358.10 MWh** of electricity, and thus contributing to **69,695 tCO₂e** GHG reductions.

During the current monitoring period, all the WTGs were operational. However, breakdown of **14,092.19** Hours has occurred in this monitoring period due some scheduled shutdown for the maintenance. This downtime is approx. 7% of total available hours of operation of the WTGs, during the current monitoring period. Please refer ER sheet for detailed breakdown calculation.

For the current monitoring period estimated emission reduction is 60,746 tCO₂e, whereas actual emission reductions achieved are 69,695 tCO₂e (round down value), which is approximately +14.7% higher than the estimated emission reductions. The Project is in continued operation for 9th periodic verification of 1^{st} crediting period. This variation is majorly due to availability of wind & high plant load factor (PLF¹⁵) during the current monitoring period as selected monitoring period mainly covers the high wind seasonal months. More details

¹⁵ The estimated PLF as per registered PD is 20% whereas actual PLF achieved during this MP is 22.95%. Calculation can be referred under the ER sheet



about the commissioning status and the technical details of the project WTGs are referred under the Appendix 01 & Appendix 02

3.2 Deviations

3.2.1 Methodology Deviations

No methodological deviation applied to the project activity during current verification and last verification.

3.2.2 Project Description Deviations

No project description deviation applied to the project activity during the current monitoring period.

Project description deviation has been applied to the project activity during the Verification period i.e., 01-September-2021 to 30-April-2022, first and last day included.

However there has been a change in the Feeder number and Billing Meter for M/s Nilgiri Power Private Limited, M/s Sispara Renewable Power Private Limited & M/s Kalsubai Power Private Limited.

- The billing meters for both M/s Sispara Renewable Power Private Limited & M/s Kalsubai Power Private Limited are installed at Feeder No. 01 & Feeder no 05 at 220/33 kV Hiwarwadi Substation
- 2. The billing meters for M/s Nilgiri Power Private Limited are installed at Feeder no 04, Feeder no 05 & Feeder no 08 at 220/33KV Shedyal Substation

It is to note that from last Monitoring Period the above stated Feeder change was followed by PP and the energy meter installed at these meters are used for billing purposes and calculation of net electricity exported to the grid.

During last & current Monitoring Period there is no delay in calibration since the calibration frequency for calibration is once in three years. The respective date of calibration is mentioned in Appendix O3 of this MR.

3.3 Grouped Projects

Not applicable as the project is not a grouped project.

3.4 Baseline Reassessment

Did the project undergo	baseline reassessment	during the	monitoring	period?
□ Yes	⊠ No			



4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	EFgrid,0Msimple,y
Data unit	tCO ₂ /MWh
Description	Operating margin CO ₂ emission factor of NEWNE grid
Source of data	Central Electricity Authority: CO_2 Emission Database CEA CO_2 Baseline database Version 10^{16}
Value applied	0.9857
Justification of choice of data or description of measurement methods and procedures applied	The operating margin emission factor is a 3-year generation-weighted average data, based on the most recent data available on CEA database at the time of submission of the VCS-PDD to the VVB for validation. Data compiled in CEA CO ₂ CDM database is in line with the requirements Version 5.0 of "Tool to calculate the emission factor for an electricity system ¹⁷ ".
Purpose of Data	Calculation of baseline emissions
Comments	This parameter is calculated ex ante and remains fixed during the crediting period.

Data / Parameter	EF _{grid,BM,y}
Data unit	tCO ₂ /MWh
Description	Build margin CO ₂ emission factor of NEWNE grid
Source of data	Central Electricity Authority: CO ₂ Emission Database
	CEA CO ₂ Baseline database Version 10 ¹⁸
Value applied	0.9495
Justification of choice of data or description of measurement methods and procedures applied	The build margin emission factor is the most recent data available from CEA CO_2 Baseline database. Data compiled in CEA CO_2 CDM database is in line with the requirements Version 5.0 of "Tool to calculate the emission factor for an electricity system ¹⁹ ".

¹⁶ Microsoft Word - Final User Guide ver 10.0.doc (cea.nic.in)

¹⁷ Tool to calculate the emission factor for an electricity system. version 03.0.0 (unfccc.int)

¹⁸ Microsoft Word - Final User Guide ver 10.0.doc (cea.nic.in)

¹⁹ Tool to calculate the emission factor for an electricity system. version 03.0.0 (unfccc.int)



Purpose of Data	Calculation of baseline emissions
Comments	The build Margin would be calculated ex ante and fixed during the crediting period.

Data / Parameter	EFgrid, CM, y
Data unit	tCO ₂ /MWh
Description	Combined margin CO ₂ emission factor of NEWNE grid
Source of data	Central Electricity Authority: CO ₂ Emission Database
	CEA CO ₂ Baseline database Version 10 ²⁰
Value applied	0.9767
Justification of choice of data or description of measurement methods and procedures applied	The combined margin emissions factor is calculated as follows:
	$EF_{grid,CM,y} = EF_{grid,OM,y} \times w_{OM} + EF_{grid,BM,y} \times w_{BM}$
	The following default values should be used for w_{OM} and w_{BM} :
	For Wind power generation project activities: w_{OM} = 0.75 and w_{BM} = 0.25 for the selected crediting period
	Data compiled in CEA CO ₂ CDM database is in line with the requirements Version 5.0 of "Tool to calculate the emission factor for an electricity system ²¹ ".
Purpose of Data	Calculation of baseline emissions
Comments	The Combined Margin would be calculated ex ante and fixed during the crediting period.

4.2 Data and Parameters Monitored

Data / Parameter	EG _{facility,y}
Data unit	MWh
Description	Quantity of Net Electricity exported to the grid by the project WTGs (i.e., total 22 WTGs) to the grid during the year y.
Source of data	Calculated
Description of measurement	This parameter is calculated based on the measured

²⁰ Microsoft Word - Final User Guide ver 10.0.doc (cea.nic.in)

²¹ Tool to calculate the emission factor for an electricity system. version 03.0.0 (unfccc.int)



methods and procedures to be applied

parameters those are continuously measured and monthly recorded.

Metering at common metering point:

The electricity generated by the project activity WTGs along with non-project WTGs are metered at feeder-wise common metering point. The metering point consists of a main meter& check meter, having accuracy of 0.2s.

The meters measures parameters like export & import for all the connected WTGs. The export reading for a given metering point for a given billing month is obtained by subtracting initial reading (taken in previous month) from the final reading (taken in billing month). The difference is multiplied by the applicable meter multiplication factor. Similar procedure is followed to arrive the import reading.

The monitoring & measurement²² of electricity at project metering point is being done on continuous basis; while recording is being done on monthly basis as Joint Meter Reading by the representatives of State Utility & PP.

Calculation of net electricity export to the grid by project activity WTG:

The export & import by the project activity WTG connected to the metering point is calculated by apportioning of the electricity at feeder level by the state utility. The apportioning of the electricity is based on the controller reading of project activity WTG, controller reading for all WTGs connected at the given metering point and the electricity reading (export, import etc) recorded by the main meter at the given metering point on monthly basis. It gives monthly values of export & import for project activity WTG. The net export for any given month by the project activity WTG to the grid is then obtained by subtracting import from export.

Thus:

EGfacility,y= $\sum EG$ JMR, project, export - $\sum EG$ JMR, project, import

The value of the monthly net electricity delivered to the Grid by the project activity WTG is aggregated annually to get quantity of net electricity supplied by the project plant/unit

²² The meters are capable of measuring the electricity parameters (export, import etc.) on real time basis. It complies the hourly measurement requirement as per the monitoring methodology. Energy Meter details has been provided under Appendix-3 of the MR.



	to the grid in year y i.e. (EG facility,y).
	Note: The apportioning of the electricity is the responsibility of the state utility & same is beyond the control of the PP.
Frequency of monitoring/recording	Monthly recording.
Value monitored	71,358.10
Monitoring equipment	Not applicable as the parameter is calculated
QA/QC procedures to be applied	The quantity of net electricity supplied will be cross-verified from the invoices raised on MSEDCL by the project participant. QA/QC procedures will be as implemented by DISCOM i.e., Maharashtra State Electricity Distribution Company Limited (MSEDCL) Board pursuant to the provisions of the power purchase agreement and there will be no additional QA/QC procedures.
Purpose of the data	Used to calculate baseline emissions
Calculation method	Calculation method is described in detail in section 4.3.
Comments	Date will be archived for crediting period plus two years after the end of Crediting period.

Data / Parameter	EGJMR, Project, export,y
Data unit	MWh
Description	Quantity of Electricity exported by the Project WTGs connected to the feeder i to the grid during the year y.
Source of data	Monthly statements/credit notes issued by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL).
Description of measurement methods and procedures to be applied	Quantity of electricity export would be calculated using the apportioning procedure as described in section 4.3.
Frequency of monitoring/recording	Monthly recording
Value monitored	71,424,43
Monitoring equipment	Calculated parameter, hence no monitoring equipment is required.
QA/QC procedures to be applied	The value is calculated and can be cross checked from the invoices raised on the state utility. The monitoring frequency



	of the data parameter will be on monthly basis.
Purpose of the data	Used to calculate baseline emissions
Calculation method	Calculation method is described in section 4.3.
Comments	Date will be archived for crediting period plus two years after the end of Crediting period

Data / Parameter	EGJMR, Project, Import,y
Data unit	MWh
Description	Quantity electricity imported by the Project WTGs connected to the feeder i from the grid during the year y.
Source of data	Monthly statements/credit notes issued by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL).
Description of measurement methods and procedures to be applied	Quantity of electricity import would be calculated using the apportioning procedure as described in section 4.3.
Frequency of monitoring/recording	Monthly recording
Value monitored	66.33
Monitoring equipment	No monitoring equipment is required
QA/QC procedures to be applied	The value is calculated and can be cross checked from the invoices raised on the state utility. The monitoring frequency of the data parameter will be on monthly basis.
Purpose of the data	Used to calculate baseline emissions
Calculation method	Calculation method is described in section 4.3.
Comments	Date will be archived for crediting period plus two years after the end of Crediting period

Data / Parameter	EG Controller, gen
Data unit	MWh
Description	Quantity electricity generated by the project activity WTGs
	recorded at respective controller meters
Source of data	Monthly operating logs recorded in electronic format by O&M
	contractor
Description of measurement	The value is recorded continuously by the online monitoring
methods and procedures to	station. This reading can also be seen in the electronic panel



be applied	installed inside the WTG tower. The LCS meter (Controller meter) do not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WTGs. In case there is any mismatch in the energy values recorded by the Panel meter and the energy values calculated by the inverting system; the machine will stop working and generate the error report. The operations and maintenance staff will attend to the problem immediately in order to identify and correct the error.
Frequency of monitoring/recording	Continuous monitoring and Monthly recording
Value monitored	74,050.44
Monitoring equipment	LCS meter (Controller Meter)
QA/QC procedures to be applied	This data parameter will be logged electronically on a monthly basis by O&M contractor on its online portal. The value of this parameter shall be compared with the value of EG _{PJ,y} and the conservative approach would be taken by the PP for estimating the net electricity supplied value for the calculation of emission reduction.
Purpose of the data	Used to calculate baseline emissions
Calculation method	Not applicable
Comments	Date will be archived for crediting period plus two years after the end of Crediting period

4.3 Monitoring Plan

As per approved monitoring methodology ACM0002 / Version 17.0, 'Net electricity generation from the project activity' is required to be monitored.

As the emission reductions from the project are determined by the number of units exported to the grid by the project activity it is mandatory to have a monitoring system in place and ensure that the project activity produces and supplies the rated power at the stipulated norms.

The purpose of the monitoring plan is to define the organizational structure of the monitoring team, monitoring practices, QA and QC procedures and archiving procedures. The monitoring plan will ensure that the emission reductions from the project activity are reported accurately and transparently.

Since the baseline methodology is based on ex ante determination of the baseline, the monitoring of operating margin emission factor and build margin emission factor is not required. Further, wind-based electricity generation is not associated with any kind of leakages.



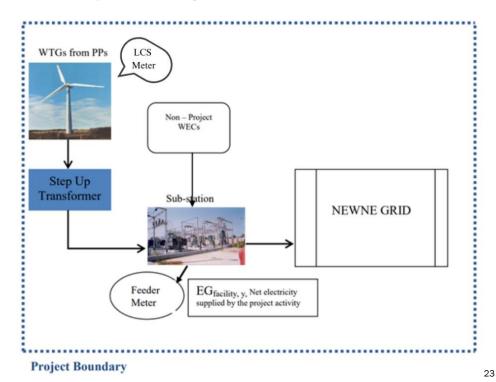
Hence, the sole parameter for monitoring is the electricity generated by the project and supplied to the grid.

Monitoring at common metering point:

Quantity of electricity generated and supplied to the grid by the all the WTGs (project activity WTGs and non-project WTGs) connected to the particular feeder will be measured through the energy meters (Main Meter and Check Meter) installed at the substation. The meter readings at the substations are taken jointly by the representatives of Project participant representative and Maharashtra State Electricity Distribution Company Limited (MSEDCL) representative and recorded in the JMR.

The metering equipment is duly approved, tested and sealed by MSEDCL. The metering equipment (consisting of the Main Meter and the Check Meter) is identical in make and technical standards and is of 0.2% accuracy class. They comply with the requirements of the Electricity Rules.

The MSEDCL carries out the calibration, periodical testing, sealing and maintenance of meters in the presence of PPs representative. The frequency of meter testing is once in 3 years. All meters are tested only at the Metering Point.



²³ The As per CEA database version 13 (released in June 2018) In previous years before April 2016, the Indian electricity system was divided into two grids, the NEWNE and Southern Grid. These are now integrated as a single "Indian Grid" covering all the states. Thus, the project activity earlier was considered under Southern Grid which is now referred as Indian Grid.



Metering Equipment and Metering Arrangement Information and Emergency preparedness:

- The meters are two-way meter and measure the electricity import and export and give the net electricity.
- As per the Power Purchase Agreement entered into with the electricity distribution utility, there
 will be two meters, one main meter and one backup meter. Both meters would be two-way
 export import meters that measure both export and import of electricity and provide net
 electricity exported to the grid.
- In case the meters are found to operate outside the permissible limits i.e., (accuracy class 0.2s), the meters will be either replaced immediately or calibrated by state electricity entity i.e., Maharashtra State Electricity Distribution Company Limited (MSEDCL). Whenever a main meter goes defective, the consumption recorded by the backup meter will be referred.
- If main as well as back up metering system becomes defective, the details of the
 malfunctioning along with date and time and snaps shot parameters along with load survey will
 be retrieved from the main meter. The exact nature of the malfunctioning will be determined
 after analyzing the data so retrieved and the consumption recorded by the main meter will be
 adjusted accordingly.
- The main meter readings are apportioned based upon the LCS meter readings from the
 individual WTGs to compute net electricity supplied from individual WTGs. The LCS meter
 readings of project activity WTGs are archived electronically on continuous basis. Joint meter
 reading at the DISCOM substation is noted each month. Therefore, cumulative LCS meter
 reading for each month is used for purpose of allocation of net electricity supplied to the grid
 from the project activity.
- Both main and check meters will be calibrated²⁴ once in 3 years as per registered PD dated 06-February-2017 version 02.

Project proponent have signed "Operation and Maintenance" contract with the Renom Energy Services Pvt Ltd for INOX Wind Limited machines & there is in-house operation and maintenance by NSL for ReGen Machines. The performance of the mills, safety in operation and scheduled /breakdown maintenances are organized and monitored by the contractor. The technology providers will monitor the generation of the WTG daily on a regular basis and will maintain a log book recording daily generation details for each WTG comprising the project, as metered at the wind farm.

Apportioning Procedure followed:

The allocation of the net electricity supplied to the grid by the project activity is done based on the joint meter readings taken at the DISCOM i.e., Maharashtra State Electricity Distribution

²⁴Details of energy meter calibration has been provided under Appendix -3 of the MR.



Company Limited (MSEDCL) substation & LCS meter readings of individual WTGs. Apportioning procedure is applied is explained in below:

EG_{JMR}, _{Export} = Electricity exported by all the WTGs (project WTGs & non-project WTGs), as recorded by the main meter at the substation

EG_{JMR, Import} = Electricity imported by all the WTGs (project WTGs & non-project WTGs), as recorded by the main meter at the substation

EGcontroller, gen = Electricity exported by a project WTG, as measured at the controller

EGcontroller, gen, total = Electricity exported by all the WTGs (project activity & non project activity) connected to the main meter at the substation, measured at the controller of each WTG

 \sum EG_{Controller, gen} = Summation of electricity generated by the project activity WTGs recorded at respective LCS meters.

EGJMR, Project, export = Electricity exported by a WTG to the grid, calculated

EGJMR, Project, import = Electricity imported by a WTG from the grid, calculated.

Electricity exported by each WTG is apportioned on the basis of electricity exported recorded at the controller of each WTG and the electricity exported at the main meter and mentioned in the JMR. The export multiplication factor is calculated as follows-

Export Multiplication Factor = EGJMR, Export ÷ EGController, gen, total(1)

Thus, the energy exported by a WTG to the grid is given by the equation-

EGJMR, NSL, export = Export Multiplication factor X \sum EGcontroller, gen.....(2)

As the controller meter doesn't record import, the apportioning of energy imported by each WTG is also done on the basis of electricity exported recorded at the controller of each WTG and the electricity imported at the main meter and mentioned in the JMR. The import multiplication factor is calculated as follows-

Thus the energy imported by a WTG to the grid is given by the equation-

EGJMR, Project, Import = Import Multiplication factor X \sum EGcontroller, gen(4)

The net electricity exported by the WTGs of the project is given by the equation-

 $EG_{facility,y} = \sum EG_{JMR, Project, export} - \sum EG_{JMR, Project, import}....(5)$

∑EGJMR, NSL, export= **EGJMR, Project, export, y**



$\sum EG_{JMR, NSL, import} = EG_{JMR, Project, import, y}$

Based on the above calculation, a monthly statement/credit note is prepared and signed by the representatives of PP and endorsed by the state utility (MSEDCL). The statement mentions the total electricity exported to grid, total electricity imported from the grid and the net electricity supplied. The net electricity supplied is calculated as the difference of the total electricity exported to grid and total electricity imported from the grid by the project activity. Upon receipt of the "Monthly Statement/credit note", Project participant generates invoices on sale of electricity and sends to respective district level MSEDCL office and MSEDCL makes payments against the invoices. The value of net electricity supplied can be cross checked with the monthly invoices.

The operational and management structure implemented for data monitoring is as follows:

OPERATOR

The day-to-day operation of the WTGs at the ground level is looked after by the operator. The operator reports to the Assistant Engineer (AE) - Wind Farm, who is responsible for collecting the required information from the operator. The AE – Wind Farm records the generation on a daily basis for each service connection point and reports the cumulative generation to the Management. VCS Project coordinator will be responsible for assessment of emission reduction achieved every year and documentation of the same.

Personnel training: The training for operating and maintaining the plant will be provided by the technology suppliers.

Data collection and archiving:

The daily data at the site is collected in electronic form. Monthly data is collected and maintained in hard copies. The project proponent shall keep complete and accurate records of all the data as a part of monitoring for at least a period of 2 years after the end of the crediting period or the last issuance of VCUs for the project activity, whichever occurs later.

NOTE: As per the monitoring plan, the monitoring parameters EGJMR, project, export, y, EGJMR, project, import,y and EGfacility,y to be calculated based on the generation data of other project activities connected to the same substation. Since the generation data of other project activities is only available with the O&M contractor, apportioning cannot be done by PP and hence the other parameters EGJMR, Export, EGJMR, Import and EGController, gen total, total are not included in section 4.2 of the PD.

Thus, the monitoring plan is complete, accurate and in line with actual metering and monitoring arrangement finalized by DISCOM in consultation with State Electricity Regulatory Commission.



5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

According to the methodology ACM0002 version 17 and registered VCS PD dated 06-February-2017, version 02 Emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y$$

Where:

ERy	=	Emission reductions in year y (tCO _{2e})
BEy	=	Baseline emissions in year y (tCO ₂)
PE _y	=	Project emissions in year y (tCO _{2e})

Baseline Emissions:

Baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants.

The baseline emissions are to be calculated as follows:

$$BE_y = EG_{PJ,y}^* EF_{grid,CM,y}$$

Where:

BE _y	=	Baseline emissions in year y (tCO ₂)
$EG_{PJ,y}$	=	Quantity of net electricity generation that is produced and
		fed into the grid as a result of the implementation of the
		project activity in year y (MWh)
$EF_{grid,CM,y}$	=	Combined margin CO ₂ emission factor for grid connected
		power generation in year y calculated using the latest
		version of the "Tool to calculate the emission factor for an
		electricity system" (tCO ₂ /MWh)

If the project activity is the installation of a new grid-connected renewable power plant/unit at a site where no renewable power plant was operated prior to the implementation of the project activity, then:

$$EG_{PJ,y} = EG_{facility, y}$$



:	
	:

EG_{PLv}	=	Quantity of net electricity generation that is produced
13,5		and fed into the grid as a result of the implementation
		of the project activity in year y (MWh/yr)
$\mathrm{EG}_{\mathrm{facility, y}}$	=	Quantity of net electricity generation supplied by the
racinty, y		project plant/unit to the grid in year y (MWh/yr)

BEy = $71,358.10 * 0.9767 tCO_2e/MWh$

= 69,695 tCO₂e (rounded down value has been considered)

5.2 Project Emissions

According to applicable methodology ACM0002; Version 17.0²⁵ under section 5 of Baseline Methodology Procedure with further description under section 5.4-page 13 about Project emissions. The project activity is a wind power project and there are no emissions associated with the project. Hence, the Project Emissions for the project activity is zero.

Hence, PEy = 0

5.3 Leakage

As per the applicable methodology ACM0002, Version 17.0, under section 5.6-page 21 about Leakage emissions, no leakage emissions are considered for the renewable project activity. LEy = 0.

5.4 Net GHG Emission Reductions and Removals

Emission reductions are calculated as follows: ERy = BEy - PEy - Ley, Where:

ERy = Emission reductions in year y (tCO₂e/year)

BEy = Baseline emissions in year y ($tCO_2e/year$)

PEy = Project emissions in year y (tCO_2e /year)

Vintage	Baseline	Project	Leakage	Reduction	Removal	Total VCUs
period	emissions	emissions	emissions	VCUs	VCUs	(tCO2e)
	(tCO2e)	(tCO2e)	(tCO2e)	(tCO2e)	(tCO2e)	
Year 2023 (01-Jan- 2023 to 31-Dec- 2023)	69,695	0	0	69,695		69,695
Total	69,695	0	0	69,695	0	69,695

²⁵ https://cdm.unfccc.int/UserManagement/FileStorage/D5YFS9I3VKBT18MQNGX0LPZ6U7AWCO



For projects required to assess permanence risk: Since the project activity does not fall under the AFOLU (Agriculture, Forestry, and Other Land Use) or Geologic Carbon Storage (GCS) project categories, it is not required to assess the permanence risk. Therefore, the following tables are not applicable.

i) Provide the requested information using the table below:

State the non-permanence risk rating (%)	NA	
Has the non-permanence risk report been	☐ Yes	⊠ No
attached as either an appendix or a		
separate document?		
For ARR and IFM projects with harvesting,	NA	
state, in tCO2e, the Long-term Average		
(LTA).		
Has the LTA been updated based on	☐ Yes	⊠ No
monitored data, if applicable?		
State, in tCO ₂ e, the expected total GHG	NA	
benefit to date.		
If a loss occurred (including a loss event or	NA	
reversal), state the amount of tCO2e lost:		

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Buffer pool allocation (tCO ₂ e)	Reductions VCUs (tCO ₂ e)	Removals VCUs (tCO ₂ e)	Total VCU issuance (tCO ₂ e)
DD-MMM- YYYY to 31- Dec-YYYY	NA	NA	NA	NA	NA	NA	NA
Total	NA	NA	NA	NA	NA	NA	NA

Vintage period	Ex-ante estimated reductions/ removals	Achieved reductions/ removals	Percent difference	Explanation for the difference
Year 2023 (01-January- 2023 to 31- December- 2023)	60,746	69,695	+14.7%	The overall PLF of the monitoring months in the current MP are higher. This is because the period includes mostly the wind season and peak-season;



hence the value is
comparatively higher than
the annualized average
value of the projected
generation. This is
unpredicted and naturally
not under in any control of
PP.



APPENDIX1: TECHNICAL SPECIFICATION

Technical Specification of WTGs

WTGs supplied by ReGen Powertech:

ReGen Powertech	VENSYS 87
POWER	
Rated power	1500 kW
Cut-in wind speed (10 min. mean)	3 m/s
Rated Wind Speed (10 min. mean)	approx. 12 m/s
Cut-out wind speed (10 min. mean)	22 m/s
Survival wind speed	52.5 m/s
Generator	Variable Speed, Multi-pole Synchronous with Permanent Magnet Excitation
ROTOR	
Diameter	87
Swept area	5942 sq. m
Speed range (variable)	9 to 17.3 rpm
TOWER AND FOUNDATION	
Hub height	85 m
Design	Tubular, Four sections
Foundation type	Floating foundation
CONTROL AND SAFETY SYSTEMS	
Control of output	Pitch Regulation
Speed control	Variable, Micro-controller based
Low Voltage Ride Through (LVRT)	3 seconds
Primary brake system	Aerodynamic Brake, Single Pitch Control/triple redundant
Pitch System	Electromechanical, Maintenance Free Toothed Belt Drive (Patented)
Remote Monitoring	VPN, Visualization via web-browser
TYPE CLASSES	
Wind turbine type class	GL III B



WTGs supplied by INOX Wind:

No. of WTGs- 15	No. of WTGs- 15			
INOX WIND - MODEL WT 2000 DF				
OPERATING DATA				
Rated power	2000 kW			
Cut-in wind speed	3 m/s			
Rated wind speed	11.5m/s			
Cut-out wind speed	20 m/s			
Survival wind speed	52.5 m/sec			
Hub height	80 meters			
Type class	TC IIIB			
Rotor speed	15.9 RPM			
Operational mode	Variable speed			
Design Standards	Germanischer Lloyd			
ROTOR				
Ditch system	Pitch control- electrical, variable speed inverters, power back up with			
Pitch system	ultra capacitor			
Diameter	93 meters			
Swept area	6785 sq meters			
Blade material type	Epoxy glass fibre			
GENERATOR				
Туре	Double fed induction generator			
Rated power	2000 kW			
Rated voltage	690 V AC, 3 Phase			
Frequency	50 Hz			
Cooling system	Water Cooled			
Insulation	Class H			
BRAKING SYSTEM				
Aerodynamic brake	Full span independent blade pitching			
Mechanical brake	Disc brakes			
DRIVE TRAIN	·			
Drive train	Patented integral drive train with rotor shaft and drive train as single unit			
Rated drive torque	1280 kNm			
Maximum static torque	2235 kNm			
Type of gearing	Two planetary and one parallel shaft gear			
Transmission ratio	1: ~ 114.7			
Gear lubrication	Forced lubrication			



Connection gear / generator	Flexible coupling
YAW SYSTEM	
Туре	Driven by 4 gear motors
Bearings	Slide bearings
TOWER	
Туре	Conical tubular steel tower
Tower Height	78 meters
Corrosion protection	Protective paint
Average Lifetime	20 years (Reference -Technology Provider Specification)

For ReGen Powertech 1.5MW WTGs

• 1700KV 33KV/690Volt transformer.

For INOX 2.0MW WTGs:

• 2300KV 33kV/690Volt transformer



APPENDIX 2: COMMISSIONING DATES OF THE WTGS

WTG Location No.	Date of Commissioning								
M/s Sispara Renewabl	M/s Sispara Renewable Power Private Limited								
NSL-24	31-March-2015								
NSL-25	31-March-2015								
NSL-35	31-March-2015								
NSL-27	31-March-2015								
NSL-29	31-March-2015								
NSL-38	31-March-2015								
NSL-39	31-March-2015								
NSL-40	31-March-2015								
M/s Kalsubai Pov	ver Private Limited								
NSL-16	31-March-2015								
NSL-30	31-March-2015								
NSL-31	31-March-2015								
NSL-32	31-March-2015								
M/s Nilgiri Powe	er Private Limited								
MV2T-21	31-October-2015								
MV2T-24	31-October-2015								
MV2T-84	31-October-2015								
MV2T-37	31-October-2015								
MV2T-95	31-October-2015								
M/s NSL Wind Power Com	npany (Sayamalai) Pvt. Ltd.								
WA-01	31-March-2015								
S-05	31-March-2015								
S-06	31-March-2015								
S-03	31-October-2015								
WA-02	13-February-2015								



APPENDIX 3: ENERGY METER CALIBRATION DETAILS

As per registered PD meter calibration frequency is "Once in three years". The current meter details for M/s Sispara Renewable Power Private Limited and M/s Kalsubai Power Private Limited are respectively, as follows:

(1) Billing Meter for M/s Sispara Renewable Power Private Limited & M/s Kalsubai Power Private Limited

Metering Points at			Meter Details										
Grid Sub Station	Serial no	Make	ake Type Clas		Date of Calibration	Due Date of Calibration	Latest Date of Due Date of Calibration						
FEEDER No. 01 at 220/33 kV Hiwarwadi S/Stn	Main meter – 13277649 Check meter – 02814525	Elster	A-1800	0.2s	03-February- 2022	02-February- 2025	25-July-2023	24-July-2026					
FEEDER No. 5 at 220/33 kV Hiwarwadi S/Stn	Main meter – 13277639 Check meter – 13277640	Elster	A-1800	0.2s	03-February- 2022	02-February- 2025	25-July-2023	24-July-2026					

It is to be noted from above table that there is no delay in meter calibration has happened for the M/s Sispara Renewable Power Private Limited and M/s Kalsubai Power Private Limited for the current monitoring period.

(2) Billing Meter for M/s Nilgiri Power Private Limited

	Meter Details										
Metering Points	Serial no	Make	Туре	Accuracy class	Date of Calibration	Due Date of Calibration	Latest Date of Calibration	Due Date of Calibration			
FEEDER No. 04 at 220/33KV	Main meter - 02862952	WALLABY	MK6E	0.2s	20-September-	19-September-	03-February-	02-February-			



Shedyal S/Stn	Check meter -				2019	2022	2022	2025
	02862957							
FEEDER No. 05 at 220/33KV Shedyal S/Stn	Main meter – HT01131245 Check meter – HT01131246	WALLABY	MK6E	0.2s	20-September- 2019	19-September- 2022	03-February- 2022	02-February- 2025
FEEDER No. 08 at 220/33KV Shedyal S/Stn	Main meter – HT01140166 Check meter – HT01140167	WALLABY	MK6E	0.2s	20-September- 2019	19-September- 2022	03-February- 2022	02-February- 2025

It is to be noted from above table that there is no delay in meter calibration has happened for the current monitoring period.

Meter calibration is not under purview of PP. MSEDCL is the sole authority to conduct the meter calibration and as per CEA order dated 17 Mar 2016; It is evident from para 18(b) that "all the meters shall be tested once in five years."

(3) M/s NSL Wind Power Company (Sayamalai) Pvt. Ltd.

It is to be noted that there were total 5 WTGs connected to MEDHA substation out of which 3 WTGs (S-5, S-6, S-7) are still connected to MEDHA Substation and 2 WTGs (WA-1 and WA-2) are shifted to WAI Substation.

Please refer the tables below for details:

Metering Points		N	Meter Detail		Due Date of	Remark		
	Serial no	Make	Туре	Accuracy class	Date of Calibration	Test Result	Calibration	
33KV TS Wind Feeder at 33/220KVMed	Main meter: 5269304 Check meter:	Elster	A 1800	0.2\$	16-February2023	Satisfactory	15-February-2026	No Delay



ha S/Stn	15687950				

			Meter Detai		Due Date of			
Metering Points	Serial no	Make	Туре	Accuracy class	Date of Calibration	Test Result	Calibration	Remark
33 KV TS Wind Feeder at 132/33/22 KV WAI S/Stn	Main meter: 16268020 Check meter: 16268022	Elster	A 1800	0.2\$	16-February2023	Satisfactory	15-February-2026	No Delay

It is clarified that there is no delay in meter calibration has happened for the current monitoring period as due date for meter calibration is outside the project monitoring period.

