



250 MW WIND POWER PROJECT BY MYTRAH ENERGY



Project title	250 MW Wind Power Project by Mytrah Energy
Project ID	VCS 2020
Monitoring period	01-July-2023 to 31-March-2024 (inclusive of both dates)
Original date of issue	24-September-2024
Most recent date of issue	21-November-2024
Version	03
VCS Standard Version	4.7
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PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The main purpose of this project activity is to generate clean form of electricity through renewable wind energy sources. The project activity installed a 250 MW wind power project in Tamil Nadu state of India.

The project activity supports the development of new grid-connected renewable energy power plants in India and will cover the wind energy technologies. It seeks to enable investment in large scale grid connected plants that export their generated output to the regional / national electricity grid in India. This project activity follows methodology ACM0002 version 19.0.

Over the 10 years of first crediting period, the project will replace average anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 506,370 tCO₂e per year, thereon displacing average electricity generation about 540,531.5 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian grid, which is mainly dominated by thermal/fossil fuel-based power plant.

The commissioning details of the project and their location of installation are mentioned in the table below-

Name of SPV	Capacity in MW	COD	State	Connection with grid
Mytrah Vayu (Sabarmati) Pvt. Ltd.	128.70 MW	30-January-2019	Tamil Nadu	INDIAN Grid
	58.32 MW	16-April-2019		
	63.18 MW	11-May-2019		

Total emission reductions achieved in this monitoring period:

During the Current Monitoring Period from 01-July-2023 to 31-March-2024 (Inclusive of both the dates) the project activity has supplied 364,839.35 MWh of electricity, and thus contributing to the GHG reductions 341,780 tCO₂e. Further the project underwent continued operation except for scheduled maintenance and breakdowns.

1.2 Audit History

Audit type	Period	Program	Validation/verification body name	Number of years
Validation+ verification	30-January-2019 to 30-November-2019 (Inclusive of both the days)	VCS	Earthhood Services Private Limited	Ten months one day
Verification	01-Decemeber-2019 to 31-March-2020(Inclusive of both the days)	VCS	LGAI Technological Center S.A. (Applus+ Certification)	Four months
Verification	01-April-2020 to 31-May-2021(Inclusive of both the days)	VCS	KBS Certification Services Pvt. Ltd.	One year two months
Verification	01-June-2021 to 28-February-2022(Inclusive of both the days)	VCS	LGAI Technological Center S.A. (Applus+ Certification)	Nine months
Verification	01-March-2022 to 31-March-2022(Inclusive of both the days)	VCS	LGAI Technological Center S.A. (Applus+ Certification)	One month
verification	01-April-2022 to 30-June-2023 (Inclusive both the dates)	VCS	VKU Certifications	One year and three months
Verification	01-July-2023 to 31-March-2024 (Current Monitoring Period)	VCS	LGAI Technological Center S.A. (Applus+ Certification)	Nine months

1.3 Sectoral Scope and Project Type

Sectoral scope ¹	1 – Energy industries (renewable/non-renewable)
Project activity type	I - Renewable Energy project activity

1.4 Project Proponent

Organization name	Mytrah Vayu (Sabarmati) Pvt. Ltd.
Contact person	Mr. Someswara Prasad
Title	AGM
Address	JSW Energy 8001, Q city, Nanakramguda, Gachibwli, Hyderabad, Telengana, India
Telephone	+91 9663376046
Email	someswaraprasad.kathrikimatam@jsw.in

1.5 Other Entities Involved in the Project

Organization name	EKI Energy services limited
Role in the project	Carbon consultant
Contact person	Vipul Sahu
Title	Project Manager
Address	Office No. 201, Plot 48, Scheme 78, Part 2 Vijay Nagar, Near brilliant Convention Centre, Indore- 452010 Madhya Pradesh, India
Telephone	+91-9111112889
Email	registry@enkingint.org

1.6 Project Start Date

Project start date	30-January-2019
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¹ Projects, activities, or methodologies may be developed under any of the 16 VCS sectoral scopes: <https://verra.org/programs/verified-carbon-standard/vcs-program-details/#sectoral-scopes>

Justification	As per VCS standard Version 4.7 The start date for a non-AFOLU project is the date on which the project began generating GHG emission reductions or removals. So, the commissioning date of the project activity is considered as the start date of the project activity
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1.7 Project Crediting Period

Crediting period	☐ Seven years, twice renewable ☐ Ten years, fixed ☒ Other (10 Years twice renewable as per VCS standard Version 4.7)
Start and end date of first or fixed crediting period	30-January-2019 to 29-January-2029

1.8 Project Location

The details of the project locations are mentioned in the table below:

Name of Investor	Capacity (MW)	Villages	District	State
Mytrah Vayu (Sabarmati) Pvt.Ltd.	250 MW	Kadambur, Kuppanapuram, Ottarampatti, Vandanam, Kayathar, Akhilandapuram & Paneerkulam	Tuticorin	Tamil Nadu

The geo-coordinates of each WTG are as such-

S No.	Name of Investor	WTG Location	Latitude (N)	Longitude (E)
1	M/s Mytrah Vayu (Sabarmati) Pvt. Ltd.	MAN-322	8° 58' 04.93"	77° 55' 00.64"
2		MAN-321	8° 58' 24.09"	77° 54' 22.36"
3		MAN-222	8° 57' 49.51"	77° 54' 36.21"
4		MAN-215	8° 57' 04.03"	77° 53' 07.05"
5		MAN-323	8° 57' 30.49"	77° 53' 08.89"

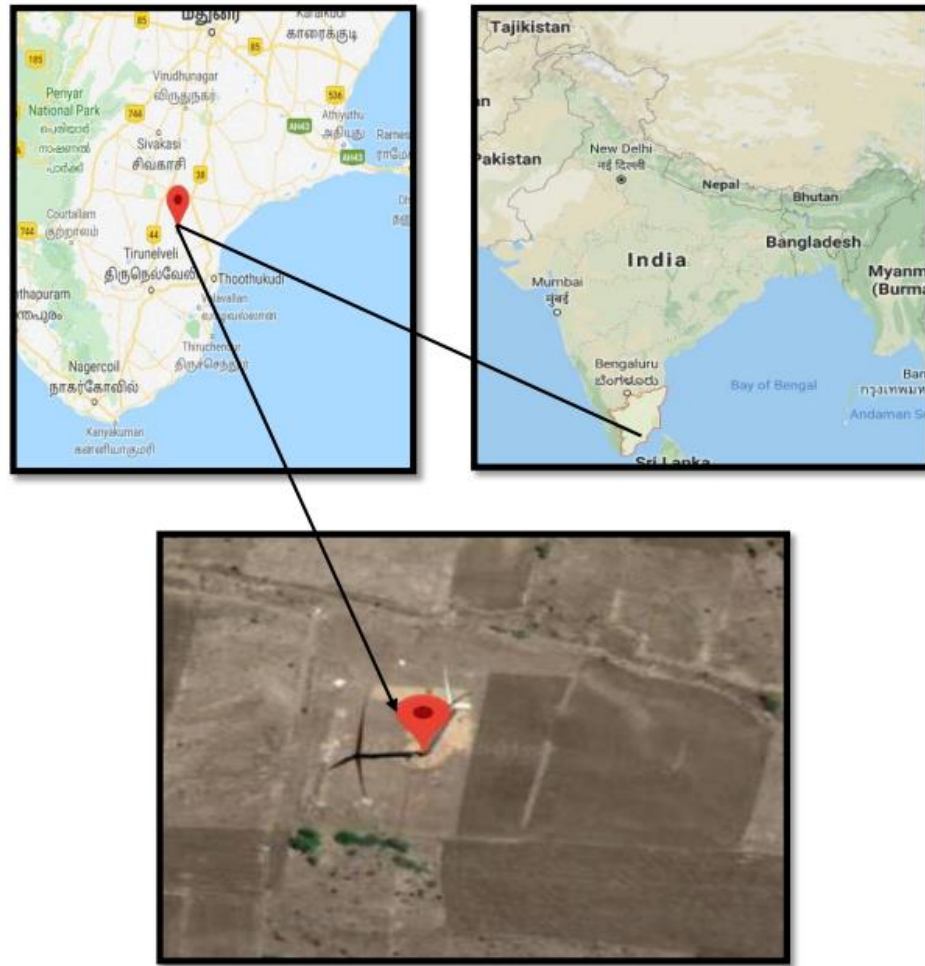
6		MAN-199	8°59'57.17"	77°52'43.33"
7		MAN-324	8°56'59.21"	77°52'17.266"
8		MAN-197	9°00'44.43"	77°52'05.52"
9		MAN-319	8°59'53.26"	77°54'48.26"
10		MAN-196	9°01'06.79"	77°52'15.16"
11		MAN-328	9°01'42.51"	77°53'41.77"
12		MAN-326	9°00'17.87"	77°54'37.53"
13		MAN-320	8°58'43.03"	77°54'41.61"
14		MAN-353	8°57'22.58"	77°54'40.81"
15		MAN-380	8°57'31.83"	77°54'14.29"
16		MAN-311	9°01'24.09"	77°53'43.03"
17		MAN-312	9°01'53.19"	77°54'49.58"
18		MAN-349	9°03'04.87"	77°55'21.34"
19		MAN-361	9°02'49.37"	77°56'49.38"
20		MAN-379	9°01'40.26"	77°52'27.36"
21		MAN-350	9°02'45.455"	77°55'46.40"
22		MAN-362	9°03'10.15"	77°56'09.18"
23		MAN-345	9°02'24.90"	77°55'26.67"
24		MAN-305	9°02'15.08"	77°51'55.31"
25		MAN-340	9°00'53.28"	77°56'03.52"
26		MAN-378	9°05'18.50"	77°56'46.48"
27		MAN-304	9°02'32.51"	77°51'27.31"
28		MAN-377	9°03'59.32"	77°57'18.22"
29		MAN-356	9°01'06.19"	77°57'49.32"
30		MAN-366	9°04'34.66"	77°55'26.91"
31		MAN-314	9°01'20.72"	77°57'46.01"
32		MAN-159	8°59'46.60"	77°49'42.66"

33		MAN-161	9°00'26.84"	77°49'03.72"
34		MAN-160	9°00'12.76"	77°49'41.56"
25		MAN-415	8°58'58.96"	77°50'49.62"
36		MAN-412	8°58'28.65"	77°50'15.30"
37		MAN-417	8°58'16.30"	77°50'39.34"
38		MAN-388	8°57'13.89"	77°47'52.29"
39		MAN-146	8°59'53.96"	77°48'37.98"
40		MAN-280	8°58'57.03"	77°47'35.55"
41		MAN-297	9°02'00.42"	77°49'53.49"
42		MAN-189	9°01'11.35"	77°51'03.61"
43		MAN-185	9°00'54.47"	77°50'21.21"
44		MAN-184	9°00'32.44"	77°50'27.81"
45		MAN-299	9°01'52.73"	77°50'58.57"
46		MAN-301	8°58'19.75"	77°46'48.29"
47		MAN-351	9°02'01.39"	77°57'35.38"
48		MAN-194	9°01'59.33"	77°52'34.78"
49		MAN-437	9°02'18.69"	77°56'27.38"
50		MAN-370	9°04'14.19"	77°56'41.50"
51		MAN-341	9°01'20.09"	77°56'01.65"
52		MAN-416	8°58'30.61"	77°51'13.21"
53		MAN-405	8°59'22.95"	77°49'34.56"
54		MAN-201	8°58'59.80"	77°51'36.21"
55		MAN-444	8°56'44.56"	77°50'17.04"
56		MAN-398	8°56'30.02"	77°50'08.32"
57		MAN-483	8°59'28.03"	77°47'21.78"
58		MAN-486	8°59'54.90"	77°47'24.90"
59		MAN-485	8°59'42.49"	77°47'57.16"

60		MAN-480	8°58'09.42"	77°47'16.54"
61		MAN-481	8°58'25.50"	77°47'06.75"
62		MAN-443	9°01'12.22"	77°49'11.56"
63		MAN-162	9°00'41.42"	77°48'29.02
64		MAN-127	9°01'34.55"	77°49'55.41"
65		MAN-126	9°01'48.64"	77°49'54.15"
66		MAN-494	9°02'02.97"	77°50'29.70"
67		MAN-497	9°01'01.99"	77°48'30.88"
68		MAN-17	8°50'24.87"	77°53'28.09"
69		MAN-24	8°49'27.46"	77°54'15.25"
70		MAN-22	8°50'35.38"	77°54'09.83"
71		MAN-255	8°47'46.68"	77°49'24.71"
72		MAN-253	8°47'11.41"	77°49'48.05"
73		MAN-26	8°48'49.65"	77°53'27.41"
74		MAN-55	8°51'19.15"	77°52'42.76"
75		MAN-16	8°50'33.64"	77°52'55.62"
76		MAN-79	8°50'21.64"	77°48'48.32"
77		MAN-490	8°49'58.53"	77°50'20.022"
78		MAN-20	8°48'56.29"	77°52'57.64"
79		MAN-03	8°46'42.12"	77°51'11.26"
80		MAN-04	8°46'20.45"	77°51'21.36"
81		MAN-11	8°49'49.58"	77°52'29.67"
82		MAN-02	8°48'32.40"	77°50'59.91"
83		MAN-05	8°46'10.74"	77°50'53.70"
84		MAN-82	8°47'02.26"	77°51'32.44"
85		MAN-258	8°48'50.75"	77°48'59.17"
86		MAN-264	8°49'22.98"	77°51'50.30"

87		MAN-19	8°49'43.94"	77°53'13.25"
88		MAN-115	8°50'08.55"	77°54'35.45"
89		MAN-12	8°49'25.81"	77°52'28.67"
90		MAN-13	8°49'05.67"	77°52'16.91"
91		MAN-18	8°49'07.25"	77°54'00.83"
92		MAN-10	8°50'14.01"	77°54'05.67"
93		MAN-15	8°50'54.31"	77°53'19.72"
94		MAN-498	8°45'50.84"	77°50'44.16"
95		MAN-499	8°46'23.84"	77°51'59.74"
96		MAN-158	8°59'34.14"	77°49'09.56"
97		MAN-125	8°57'53.07"	77°46'41.11"
98		MAN-136	9°00'17.13"	77°47'53.96"
99		MAN-496	9°02'30.5"N	77°53'51.4"E
100		MAN-492	8°56'21.7"N	77°50'41.7"E
101		MAN-488	9°00'24.42"	77°51'32.88"
102		MAN-493	9°01'11.4"N	77°51'03.7"E
103		MAN-495	8°58'03.78"	77°48'57.02"
104		MAN-505	8°59'52.1"N	77°50'56.2"E
105		MAN-504	9°00'11.5"N	77°50'31.9"E

The project locations have been shown in the map below:



1.9 Title and Reference of Methodology

Type (methodology, tool or module).	Reference ID, if applicable	Title	Version
Methodology	ACM0002	Grid-connected electricity generation from renewable sources	19.0 ²
Methodological Tool	TOOL07	Tool to calculate the emission factor for an electricity system (EB 100, Annex 04)	07.0 ³

² <https://cdm.unfccc.int/UserManagement/FileStorage/58IAGB7SZUDEO2VN6LYM30K41HFPRQ>

³ <http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-07-v7.0.pdf>

1.10 Double Counting and Participation under Other GHG Programs

1.10.1 No Double Issuance

Is the project receiving or seeking credit for reductions and removals from a project activity under another GHG program?

☐ Yes ☒ No

1.10.2 Registration in Other GHG Programs

Was the project registered or seeking registration under any other GHG programs?

☐ Yes ☒ No

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

1.11.1 No Double Claiming with Emissions Trading Programs or Binding Emission Limits

Are project reductions and removals or project activities also included in an emissions trading program or binding emission limit? See the VCS Program Definitions for definitions of emissions trading program and binding emission limit.

☐ Yes ☒ No

1.11.2 No Double Claiming with Other Forms of Environmental Credit

Has the project activity sought, received, or is planning to receive credit from another GHG-related environmental credit system? See the VCS Program Definitions for definition of GHG-related environmental credit system.

☐ Yes ☒ No

1.11.3 Supply Chain (Scope 3) Emissions

Do the project activities affect the emissions footprint of any product(s) (goods or services) that are part of a supply chain?

☐ Yes ☒ No

1.12 Sustainable Development Contributions

The project activity has beneficial effect on the local environment and employment in the nearby region. Clean Electricity generation through Hydro Project result in avoidance of consumption of fossil fuels which results in contribution to SDG 7. The emission avoidance through these activities results in contribution to SDG 13. All the workers at site are trained which results in increase of skills, which contributes to SDG 4. Detailed indicators are mentioned in table 1. This is a voluntary project activity doesn't contribute to achieving any nationally stated sustainable

development priorities. Project officials has taken decision to keep all the employees on permanent basis working at the project activity. There is no compliance for monitoring and reporting the emission reduction and SDG contribution from the project activity.

The following documents provided to VVB as evidence regarding the SD contributions:

SD Contributions	Documents submitted to VVB
SDG 8	Training Records & Employment reord
SDG 7	Monthly JMR and Invoices
SDG 13	Emission reduction calculation sheet

Table 1: Sustainable Development Contributions

Row number	SDG target	SDG indicator	Net impact on SDG indicator	Current project contributions	Contributions over project lifetime	
1)	7.2	7.2.1: Renewable energy share in the total final energy consumption	Implemented activities to increase	About 364,839.35 MWh, renewable electricity has supplied to Indian grid during the reported period that helps to increase the renewable energy share in the energy mix	Since Commissioning, about 2,343,788.65 MWh ⁴ renewable electricity has supplied to Indian grid.	
					Monitoring period	Contribution in MWh
					30-January-2019 to 30-November-2019	308,957
					01-Decemeber-2019 to 31-March-2020	107,139.04
					01-April-2020 to 31-May-2021	538,540.73
					01-June-2021 to 28-February-2022	390,802
					01-March-2022 to 31-March-2022	22,458
					01-April-2022 to 30-June-2023	611,052.53
					01-July-2023 to 31-March-2024	364,839.35

⁴ Can be checked from previous verification reports available on <https://registry.verra.org/app/projectDetail/VCS/2020>

2)	8.6	8.6.1 Proportion of youth (aged 15-24) not in education, employment or training	Implemented activities to increases	Total- 06 employees are employed during this reporting period. Total 01 trainings ⁵ were provided during the current monitoring period.	The lifetime contribution for the project is- Before the mentioned monitoring period contribution of SDG 8 was not monitored.								
					<table><tr><th>Monitoring period (Both inclusive)</th><th>Contribution</th></tr><tr><td>01-March-2022 to 31-March-2022</td><td>1 training and 97 employees</td></tr><tr><td>01-April-2022 to 30-June-2023</td><td>2 trainings and 10 employees</td></tr><tr><td>01-July-2023 to 31-March-2024</td><td>1 training and 06 employees</td></tr></table>	Monitoring period (Both inclusive)	Contribution	01-March-2022 to 31-March-2022	1 training and 97 employees	01-April-2022 to 30-June-2023	2 trainings and 10 employees	01-July-2023 to 31-March-2024	1 training and 06 employees
Monitoring period (Both inclusive)	Contribution												
01-March-2022 to 31-March-2022	1 training and 97 employees												
01-April-2022 to 30-June-2023	2 trainings and 10 employees												
01-July-2023 to 31-March-2024	1 training and 06 employees												
3)	13.2	13.2.2 Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increases	By supplying 364,839.35 MWh clean electricity to Indian grid, the project avoided release of 341,780 tCO ₂ in to the atmosphere during the reported monitoring period	Prevented the release of 2,195,649 ⁶ Tonnes of carbon in the atmosphere since commission of the project activity.								
					<table><tr><th>Monitoring period (Both inclusive)</th><th>Contribution in tCo₂</th></tr><tr><td>30-January-2019 to 30-November-2019</td><td>289,425</td></tr><tr><td>01-Decemeber-2019 to 31-March-2020</td><td>100,366</td></tr></table>	Monitoring period (Both inclusive)	Contribution in tCo ₂	30-January-2019 to 30-November-2019	289,425	01-Decemeber-2019 to 31-March-2020	100,366		
Monitoring period (Both inclusive)	Contribution in tCo ₂												
30-January-2019 to 30-November-2019	289,425												
01-Decemeber-2019 to 31-March-2020	100,366												

⁵ Details are mentioned in Appendix 2

⁶ Can be checked from previous verification reports available on <https://registry.verra.org/app/projectDetail/VCS/2020>

					01-April-2020 to 31-May-2021	504,504
					01-June-2021 to 28-February-2022	366,103
					01-March-2022 to 31-March-2022	21,038
					01-April-2022 to 30-June-2023	572,433
					01-July-2023 to 31-March-2024	341,780

1.13 Commercially Sensitive Information

There is no any commercially sensitive information has been excluded from the public version of the monitoring report.

2 SAFEGUARDS AND STAKEHOLDER ENGAGEMENT

2.1 Stakeholder Engagement and Consultation

2.1.1 Stakeholder Identification

Please refer the JOINT PROJECT DESCRIPTION & MONITORING REPORT Version 02 dated 20-December-2019 section 5.3. Web-link: <https://registry.verra.org/app/projectDetail/VCS/2020>

Stakeholder Identification	Since the local stakeholder consultation was conducted prior to the implementation of the project activity during validation. The consultation process involved relevant stakeholders such Gram Panchayat members of villages directly coming under the purview of the project, District and state level government officials, NGO representatives, Representatives of PP.
Legal or customary tenure/access rights	Not Applicable, there are no 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 with regards to the project. The project is wind energy generation and it is established on the project proponent's land.
Stakeholder diversity and changes over time	Stakeholders identified for this project activity are diverse in nature – in terms of socio-economic status, age and gender wise and the diversity is unlikely to change over time.
Expected changes in well-being	Expected changes 1. Economic well-being – The project activity is likely to provide employments to the locality thus economic well beings are expected.

	2. Environmental well-being – As this project activity reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. Due to its zero emission the Project activity also helps in avoiding significant amount of GHG emissions and specific pollutants like SO _x , NO _x , and SPM associated with the conventional thermal power generation facilities.
Location of stakeholders	Local stakeholders comprise of the local people in and around the project area.
Location of resources	Not Applicable. There are no any of the location or territories and resources which stakeholders own or to which they have customary access.

2.1.2 Stakeholder Consultation and Ongoing Communication

Ongoing consultation	Stakeholders' consultation is a continuous process and hence a feedback register is kept at the project site office where any stakeholder can come and share his/her feedback. The feedback irrespective of the type is taken care by PP with utmost priority.
Date(s) of stakeholder consultation	(Initial LSC conducted at the time of registration) The LSHM date is 01-August-2017
Communication of monitored results	The meeting was outlined towards making aware local stakeholders including local community, local administration representatives, NGOs working for environmental cause etc., about the project activity that involves electricity generation using wind produced by wind plant with the primary objective of reducing emissions of GHGs in compared to pre-project or baseline scenario.
Consultation records	Grievance register
Stakeholder input	There has been no grievance received for the current monitoring period.

2.1.3 Free, Prior, and Informed Consent

Consent	Not Applicable, Since the stakeholders meeting was conducted before implementing the project activities.
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	Participants were invited to take part in the stakeholders meeting at their will by invitation letter. During the stakeholders meeting they were welcome to raise the questions to reflect concerns and PP has answered all the queries. Hence there is no unresolved ongoing grievance or conflicts as all questions has answered.
Outcome of FPIC	Project has received all the required consents from government authorities. Project has not encroached on land and relocated people.

2.1.4 Grievance Redress Procedure

Grievances received	Resolution and outcome
No grievances received	The project owner has operating complaint procedure. The PP has kept the register on plant site office for logging the ongoing communication or any grievance from the stakeholder which is easily accessible to the all stakeholders. This procedure of ongoing communication log & addressal is used for the project. No action required as no grievance received for the current monitoring period 01-July-2023 to 31-March-2024.

2.1.5 Public Comments

Summary of comments received	Actions taken
No comments received during the global stakeholder period which was conducted for period 20-November-2019 to 20-December-2019.	No comments received hence no action required.

2.2 Risks to Stakeholders and the Environment

2.2.1 Management Experience

The management team of the project activity have expertise and experience in implementing similar project activities and engaging communities.

2.2.2 Risk assessment

	Risk identified	Mitigation or preventative measure(s) taken
Natural and human-induced risks to stakeholders' wellbeing	No risk identified	There are no natural or human induced risks identified for stakeholders.
Risks to stakeholder participation	No risk identified	There are no exclusions, lack of communications or barriers in the project activity that might prevent stakeholders from engaging or participating.
Working conditions	No Risk identified	Regarding the working and safety procedures: Accident at work: implementing permit to work, identify the hazard, risk and mitigation, tools required (working at height, lifting and hoist. Fire hazard & emergency condition: implementing emergency response procedure, fire extinguisher inspection. Site safety: plant security and visitor procedure Unsafety action: Internal audit procedure Waste spill: scheduled waste management Accident, incident: Reporting, first aid treatment
Safety of women and girls	No risk identified	As the safety procedures implemented for each employee as described above, respect human rights, follow all the applicable laws and regulation.

Safety of minority and marginalized groups, including children	No risk identified	HR policies are in place and also the company follows the statutory rules which ensures Safety of minority and marginalized groups, including children. Child labor is prohibited in the project plant.
Pollutants (air, noise, discharges to water, generation of waste, and release of hazardous materials and chemical pesticides and fertilizers)	Risk identified	Noise Pollution: There is some noise generated by the wind turbine, but it remains within the permissible limits of environmental law, indicating that the impact is controlled and compliant with regulations. Air Pollution: There is no risk of air pollutants being emitted from the wind turbine. Discharges to Water: No discharges to water bodies are anticipated, which suggests minimal to no risk of water pollution. Generation of Waste: The turbine operation does not generate significant waste. Hazardous Materials: No hazardous materials or chemicals, such as pesticides or fertilizers, are released as part of the wind turbine's operation.

2.3 Respect for Human Rights and Equity

2.3.1 Labor and Work

	Risks identified ⁷	Mitigation or preventative measure(s) taken
Discrimination	No risk identified	During the monitoring period, all work and labor practices will be conducted fairly and equitably,

⁷ The identified risks and commensurate mitigation or preventative measure(s) for forced labor, child labor, and human trafficking, must be inclusive of staff and contracted workers employed by third parties.

		with a commitment to non-discrimination.
Sexual harassment	No risk identified	There is a HR policy, that no sexual harassment will occur related to work and labor during the monitoring period
Gender equity in labor and work	No risk identified	PP provides equal opportunities in the context of gender equity and pay for labor and work
Forced labor	No risk identified	PP has implemented HR policy where forced labour is strictly prohibited as per labour law.
Child labor	No risk identified	PP does not provide employment to child labor and follows the Indian labour law on child labour prohibition.
Human trafficking	No risk identified	PP does not use victims of human trafficking and is not involved in any such kind of activities.

2.3.2 Human Rights

Risks identified	Mitigation or preventative measure(s) taken
No risk identified	There is no any risk related to recognizing, respecting, and promoting the protection of the rights of IPs, LCs, and customary rights holders in line with applicable international human rights law, and the United Nations Declaration on the Rights of Indigenous Peoples and ILO Convention 169 on Indigenous and Tribal Peoples. PP has taken FPIC from the Local stakeholders before implementing the project activity.

2.3.3 Indigenous Peoples and Cultural Heritage

Risks identified	Mitigation(s) or preventative measure taken
No risk identified	The project activity is implemented on the Projects owner's land; hence, no tangible cultural heritage has been hampered for the project

activity. However, PP is committed to protect regional as well as national cultural heritage

2.3.4 Property Rights

Risks identified	Mitigation or preventative measure(s) taken
No risk identified	The project activity is implemented on Project owners land and PP is committed to protecting and preserving the property rights of IPs, LCs, and customary rights holders, and to protecting legal or customary tenure/access rights to territories, property, and resources.

2.3.5 Benefit Sharing

Summary of the benefit sharing plan	Not applicable Since the benefits of the carbon credits lies with the project proponent. Also, the section 2.3.4 property rights of the monitoring report is not applicable.
Benefit sharing during the monitoring period	Not Applicable since PP is the sole owner of the revenue generated from the project activity.

2.4 Ecosystem Health

	Risk identified	Mitigation or preventative measure(s) taken during the monitoring period
Impacts on biodiversity and ecosystems	No risk identified	This project activity doesn't result in adverse effects; instead, it positively impacts on the biodiversity and ecosystem by decreasing air pollution and mitigating climate change.
Soil degradation and soil erosion	No risk identified	This project is a wind power project and does not result adverse effects on Soil degradation and soil erosion.

Water consumption and stress	No risk identified	This project activity is wind power project and does not have any negative impacts on water consumption or does not lead to water stress in any way.
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2.4.1 Rare, Threatened, and Endangered species

Species or habitat	The project is not located in or adjacent to habitat for rare, threatened or endangered species, hence no species is likely to be harmed.
Areas needed for habitat connectivity	There is no area needed for habitat connectivity as the project activity is not located in or adjacent to habitat for rare, threatened or endangered species.

	Risks identified	Mitigation or preventative measure(s) taken
Habitats for rare, threatened, and endangered species	No risk identified	The project is not located in or adjacent to habitat for rare, threatened or endangered species, hence no species is likely to be harmed
Areas for habitat connectivity	No risk identified	There is no area needed for habitat connectivity as the project activity is not located in or adjacent to habitat for rare, threatened or endangered species.

2.4.2 Introduction of species

Since project activity is not involved with planting or species introduction & this section may be indicated as Not Applicable.

Species introduced	Classification	Justification for use	Adverse effects and mitigation
Not applicable	Not applicable	Not applicable	Not applicable

Existing invasive species	Mitigation measures to prevent the spread or continued existence of invasive species
No risk identified	There is no invasive species identified hence no mitigation measure is required.

	Risks identified	Mitigation or preventative measure(s) taken
Invasive species	No risk identified	No mitigation measures are required as no invasive species are identified.

2.4.3 Ecosystem conversion

	Risks identified	Mitigation or preventative measure(s) taken
Ecosystem conversion	No risk identified	There is no invasive species identified hence no mitigation measure is required.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project activity involves the installation of Wind project. The total installed capacity of the project is 250 MW Wind project located at Tamil Nadu state in India. The project is promoted by Mytrah Vayu (Sabarmati) Pvt. Ltd.

The Project activity is a new facility (Greenfield) and the electricity generated by the project will be exported to the Indian electricity grid. The project will therefore displace an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid. The Project Proponent plans to avail the VCS benefits for the project. The project has been under operation since commissioning without any major breakdowns. Though normal breakdowns due to O&M measures are continuously being worked upon by the dedicated O&M contractor (Power Grid Corporation of India Limited) for the project's WTGs. There has been no event that may have an impact on the GHG emissions or removals during the current monitoring period.

The technical specification for 250 MW wind project is provided below:

The Company is using GE make, 2.43 MW⁸ rated capacity WTG having rotor diameter of 116 meters and hub height of 94 Meters, at Tamil Nadu. The technical specifications given below:

Parameter	Specification
Installed electrical output	2.43 MW
Number of blades	3
Diameter	116 m
Swept area	10,568 m ²
Hub height	94 m
Rated wind speed	11 m/s
Rotor speed	15.68 rpm
Rotational Direction	Clockwise looking downwind
Generator	Doubly fed asynchronous generator
Tip speed @ rated power	85.4 m/s
Orientation	Upwind
Speed regulation	Pitch control
Voltage	690.0 V
Aerodynamics brakes	Full feathering
Certifications	IEC 61400-1; IEC class S

Power Evacuation Procedure:

The voltage generated at the rotor is stepped up from 690 V ac to 33 kv ac. Further at Mytrah Pooling substation voltage is stepped up from 33kv to 230 KV having Indo tech transformer of capacity 2.6 MVA and then transmitted to GSS (PGCL. Internally SCADA is installed for automatic monitoring. The project is connected by 230 kV and the site substation is connected to PGCIL and further transmitted to Indian grid. The GSS transformer capacity is 2X 150 MVA and make is Prime Meiden. There is only dedicated feeder i.e. BAY 220 connected to the project activity.

Power will be evacuated through 230 KV transmission line is connected to PGCIL Tuticorin GIS PS (230/400 Kv) at District Tuticorin. Connectivity and LTA Permission have been received from PGCIL in the name of the Company for 250 MW capacity.

⁸ <https://en.wind-turbine-models.com/turbines/1837-ge-general-electric-ge-2.0-2.7-116#:~:text=The%20rated%20power%20of%20GE,area%20amounts%20to%2010.660%20m%C2%B2>

3.2 Deviations

3.2.1 Methodology Deviations

There is no methodological deviation applicable for the current monitoring period.

3.2.2 Project Description Deviations

There is no project description deviation in the current reported monitoring period, however there are few approved deviations in the previous monitoring periods, the details of same is as such-

Deviation 1

The meter reading practice in India is upgrading to optimum level which based on robust technology and requires minimum human intervention. Currently in this monitoring period, the deviation is for Tamil Nadu state project having Project Investor name Mytrah Vayu (Sabarmati) Pvt. Ltd. but not limited to further upgradation at another states of India.

The monitoring practice is updated (October 2018) and it's shifted to Deviation Settlement Mechanism (DSM) in order to more strengthen the national grid. The export and import values are omitted and no longer provided, only net export values are being provided for the invoicing to respective boards/government institutions. In DSM, PP have to forecast electrical energy generation in day time blocks (In India, 15 minutes each block, total 96 blocks) well in advance.

The invoicing is done on the forecasted value. The actual generation deviation from the forecasted values is penalized, it depends upon the deviation magnitude. Therefore, instead of export and import values, the net values are directly obtained (either by including deviation to the schedule values or directly considering the actual values from the SRPC report) for the emission reduction calculation. The approach doesn't affect the VCU calculation.

For Southern Region, Total Energy schedule and the Actual values (which is the actual Net delivered) is maintained by the Southern Regional Power Committee (SRPC) Secretariat, Central Electricity Authority, Government of India. Regional Energy Account (monthly net export) for every month in respect of Southern Region has been uploaded on the SRPC website, www.srpc.kar.nic.in. Since the document is provided by government nodal agency, therefore no any cross-checking is required.

The project description deviation doesn't impact the applicability of the methodology, additionality and baseline scenario, emission reduction calculation of project.

The nature of deviation is permanent. The above deviation is approved in the monitoring period 01-Decemeber-2019 to 31-March-2020 (Inclusive of both the days).

Deviation 2

PP has requested for deviation regarding the change in feeder from the registered VCS PD. During the time of validation PP was using two feeders i.e Bay-222 and Bay-223. Bay-223 is now being transferred to M/s orange power. The feeder details are provided below: -

Feeder Number	Meter serial numbers
Bay-222	SA0016A, SA0014A, SA0013A
Bay-223	SA0015A, SA0011A, SA0012A

The above change does not have any impact on emission reductions, applicability of the methodology, additionality or the appropriateness of baseline scenario. And, therefore deviation is sought for the same from the registered PD. This deviation is a permanent applicable in current monitoring period. This deviation was approved in monitoring period 01-April-2020 to 31-May-2021(Inclusive of both the days).

Deviation 3

Due to typo error geo-coordinates of the following WTGs were mentioned incorrect.

The correct geo-coordinates along with WTG label are as follows;

S No.	WTG Label	Old geocoordinates		New geocoordinates	
		Latitude	Longitude	Latitude	Longitude
1	MAN 321	N 8.9734	E77.92288	N8.9734	E77.9062
2	MAN 492	N9.0387	E77.88599	N8.939364	E77.844914
3	MAN 493	N9.0147	E77.84943	N9.019844	E77.851033

The geo coordinates and WTG labels of below mentioned WTG were mentioned incorrect in registered PD due to typographic error

S No.	Old WTG lable and Geo Coordinates as per registered PDD			Correct WTG labels and geo coordinates		
	WTG Label	Latitude	Longitude	Correct WTG label	Latitude	Longitude
1	MAN 204	N8.8243	E77.90424	MAN024	N8.8243	E77.9042
2	MAN 355	N9.0387	E77.88599	MAN 495	N9.0387	E77.8860
3	MAN 491	N9.0147	E77.84943	MAN 496	N9.0418	E77.8976
4	MAN 500	N8.909861	E77.82761	MAN 505	N8.9978	E77.848941

5	MAN 501	N8.902567	E77.8362	MAN 504	N9.003203	E77.842199
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The project description deviation doesn't impact the applicability of the methodology, additionality and baseline scenario, emission reduction calculation of project.

The deviation is approved in the verification period 01-April-2022 to 30-June-2023.

Deviation 4:

In section A.1 the capacity in MW were mentioned incorrect due to typographical error. The correct details are as follows:

Name of Investor	Capacity in MW	COD	Connection with grid	State	Usage
Mytrah Vayu (Sabarmati) Pvt. Ltd.	128.70 MW	30-January-2019	Indian Grid	Tamil Nadu	Supply to grid
	58.32 MW	16-April-2019			
	63.18 MW	11-May-2019			

The project description deviation doesn't impact the applicability of the methodology, additionality and baseline scenario, emission reduction calculation of project.

The deviation was approved in the verification period 01-April-2022 to 30-June-2023.

3.3 Grouped Projects

The project activity is not a grouped project activity.

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	$EF_{grid,OM,y}$
Data unit	tCO ₂ /MWh
Description	Operating Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 14, December 2018 ⁹
Value applied	0.9610
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor for an electricity system, version 07” as 3-year generation weighted average using data for the years 2015-2016, 2016-2017 & 2017-2018. The data are obtained from “CO ₂ Baseline Database for Indian Power Sector” version 14, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	For the calculation of the Baseline Emission
Comments	This parameter is fixed ex-ante for the entire crediting period.

Data / Parameter	$EF_{grid,BM,y}$
Data unit	tCO ₂ /MWh
Description	Build Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 14, December 2018 ¹⁰
Value applied	0.8644
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor for an electricity system, version 07” as per the latest data available for the most recent year 2018. The data is obtained from “CO ₂ Baseline Database for Indian Power Sector” version 14, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	For the calculation of baseline emission
Comments	This parameter is fixed ex-ante for the entire crediting period.

Data / Parameter	$EF_{grid,CM,y}$
Data unit	tCO ₂ /MWh

⁹ https://cea.nic.in/wp-content/uploads/baseline/2020/07/user_guide_ver14.pdf

¹⁰ http://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver14.pdf

Description	Combined Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 14, December 2018 ¹¹
Value applied	0.9368
Justification of choice of data or description of measurement methods and procedures applied	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$ Where: $EF_{grid,BM,y}$ = Build margin CO₂ emission factor in year y (tCO₂/MWh) $EF_{grid,OM,y}$ = Operating margin CO₂ emission factor in year y (tCO₂/MWh) W_{OM} = Weighting of operating margin emissions factor (%) = 75% W_{BM} = Weighting of build margin emissions factor (%) = 25% Calculated as per “Tool to calculate the emission factor for an electricity system, version 07.0.0”. The data is obtained from “CO₂ Baseline Database for Indian Power Sector” Version 14, December 2018, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	For the calculation of baseline emissions
Comments	This parameter is fixed ex-ante for the entire crediting period

4.2 Data and Parameters Monitored

Data / Parameter	EG _{PJ,y}
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project (Wind) plant/unit to the grid during the monitoring period
Source of data	Regional Energy Account
Description of measurement methods and procedures to be applied	Data Type: Measured Monitoring equipment: Energy Meters are used for monitoring. Recording Frequency: Continuous monitoring and Monthly recording from Energy Meters, Summarized Annually Archiving Policy: Paper & Electronic Class of meter: 0.2s. Calibration frequency: Once in five years¹²

¹¹ http://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver14.pdf

¹² https://cea.nic.in/wp-content/uploads/2020/02/meter_reg.pdf

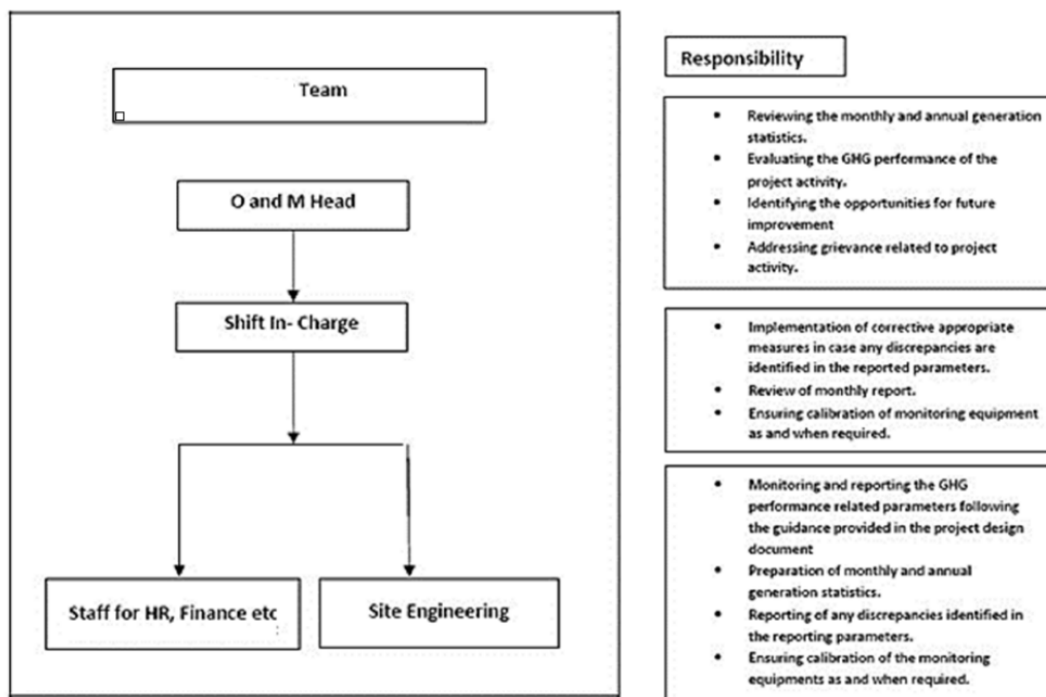
	The value of net electricity generation supplied to the grid as per Regional Energy Account statement issued by SRPC forms the basis for calculation of the emission reductions; For Southern Region, Total Energy schedule and the Actual values (which is the actual Net delivered) is maintained by the Southern Regional Power Committee (SRPC) Secretariat, Central Electricity Authority, Government of India. Regional Energy Account (monthly net export) for every month in respect of Southern Region is uploaded on the SRPC website, www.srpc.kar.nic.in. Since the document is provided by government nodal agency, therefore no any cross-checking is required.																								
Frequency of monitoring/recording	Continuous monitoring and monthly recording																								
Value monitored	364,839.35																								
Monitoring equipment	Special Energy Meters (SEMs) of 0.2s accuracy class. <table><tr><th>Meter serial No.</th><th>Make</th><th>Model</th><th>Class</th><th>Calibration date</th><th>Calibration due date</th></tr><tr><td>SA0013A (Main meter)</td><td>Secure</td><td>Premier</td><td>0.2 S</td><td>26-June-2021</td><td>25-June-2026</td></tr><tr><td>SA0014A (Check meter)</td><td>Secure</td><td>Premier</td><td>0.2 S</td><td>26-June-2021</td><td>25-June-2026</td></tr><tr><td>SA0016A (Standby meter)</td><td>Secure</td><td>Premier</td><td>0.2 S</td><td>26-June-2021</td><td>25-June-2026</td></tr></table>	Meter serial No.	Make	Model	Class	Calibration date	Calibration due date	SA0013A (Main meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026	SA0014A (Check meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026	SA0016A (Standby meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026
Meter serial No.	Make	Model	Class	Calibration date	Calibration due date																				
SA0013A (Main meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026																				
SA0014A (Check meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026																				
SA0016A (Standby meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026																				
QA/QC procedures to be applied	Energy meters will be calibrated once in a five year and faulty meters will be duly replaced immediately. For detailed schedule of energy meters used in project activity please refer APPENDIX 3: Meter calibration details. This data may be cross checked with the Monthly Generation Reports. Main and standby meter is present as PGCIL (GSS) Whereas the check meter is present at the mytrah pooling substation. In the unlikely event of failure of all Main and Standby meter installed at PPGCIL Substation, where all the faulty meters are required to be repaired or replaced simultaneously, the export & import readings																								

	from Check Meter installed at the inter-connection point (Pooling Point) at the project site will be used for monitoring of net electricity exported to the grid.
Purpose of the data	Calculation of baseline emissions
Calculation method	N/A
Comments	The data would be archived electronically and maintained for the entire crediting period plus two years.

4.3 Monitoring Plan

The monitoring plan is developed in accordance with the modalities and procedures for VCS project activities and is proposed for wind energy power project. The monitoring plan, which will be implemented by the project participant describes about the monitoring organization, parameters to be monitored, monitoring practices, quality assurance, quality control procedures, data storage and archiving.

The authority and responsibility for registration, monitoring, measurement, reporting and reviewing of the data rests with the project participant. PP proposed the following structure for data monitoring, collection, data archiving and calibration of equipment's for this project activity. The team comprises of the following members:



Data Measurement

The electricity supplied or transmitted is sourced from “Deviation Settlement Account document” and is cross checked from “Monthly Generation Reports”. “Deviation Settlement Account document” which are publicly available documents issued by the ‘Southern Regional Power Committee¹³’. Readings of meters shall be taken on monthly basis by authorized officer of SEB in the presence of PP or representative of PP. Based on the Meter Reading Statement, invoices will be raised. These invoices can be used for cross checking the meter readings taken for the respective project activity.

Data Type: Measured

Monitoring equipment: Energy Meters are used for monitoring. Recording Frequency: Continuous monitoring and Monthly recording from Energy Meters, Summarized Annually

Archiving Policy: Paper & Electronic Class of meter: 0.2s.

Calibration frequency: Once in five years¹⁴ as per CEA regulation.

Monitoring consists of metering the net electricity supplied to the grid (EGpj,y) on monthly basis. This parameter is based on the monthly Regional Energy Account undertaken by Southern Regional Power Committee, CEA, Ministry of Power, Govt. of India. To the meters at the GSS, there are WTGs of PP and other project connected. Hence, the REA report reflects the total generation from all the WTGs from the project alone, managed by the SECI personal and project representatives. It is to be noted that though the PP or their representatives are available during meter reading, the calculations of net electricity supplied to grid is completely under purview of SECI and PP does not have any control on it.

The metering system comprises of two individual special energy meters (SEMs) installed at the Government Power substation (PGCIL) and check meter installed at pooling substation. These are connected via four transmission lines of 230 kV. In case, anyone transmission line is not in service than complete load will be shifted to other transmission line which is in operation.

In DSM, PP have to forecast energy generation in day time blocks (In India, 15 minutes each block, total 96 blocks) well in advance. The electricity supplied or transmitted is sourced from “Regional Energy Account” which is publicly available document issued by the ‘Southern Regional Power Committee.

The total Energy schedule and the Actual values (which is the actual Net delivered) is maintained by the Southern Regional Power Committee (SRPC) Secretariat, Central Electricity Authority, Government of India. Regional Energy Account (monthly net export) for every month in respect of Southern Region is uploaded on the SRPC website, www.srpc.kar.nic.in. Since the document is provided by government nodal agency, therefore no any cross-checking is required. The invoicing

¹³ <http://www.srpc.kar.nic.in/html/index.html>

is done on the forecasted value. The actual generation deviation from the forecasted values is penalized, it depends upon the deviation magnitude.

Data collection and archiving

The records are checked periodically by the Plant Manager and discussed thoroughly with the plant supervisor. The period of storage of the monitored data will be 2 years after the end of crediting period or till the last issuance of VERs for the project activity whichever occurs later.

Emergency preparedness

The project activity will not result in any unidentified activity that can result in substantial emissions from the project activity. No need for emergency preparedness in data monitoring is visualized.

Personnel training

In order to ensure a proper functioning of the project activity and a properly monitoring of emission reductions, the staff will be trained. The plant helpers will be trained in equipment operation, data recording, reports writing, operation and maintenance and emergency procedures in compliance with the monitoring plan.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

The baseline emission calculation is done as such-

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

Where:

BE_y : Baseline emissions in year y (tCO₂e/yr)

$EG_{PJ,y}$: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the VCS project activity in year y (MWh/yr)

$EF_{grid,CM,y}$: Combined margin CO₂ 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” (tCO₂e/MWh).

$$EG_{PJ,y} = 364,839.35 \text{ MWh}$$

$$BE_y = 364,839.35 * 0.9368$$

$BE_y = 341,780 \text{ tCO}_2\text{e}$ (round down value)

5.2 Project Emissions

$PE_y = 0$, As per para 36 of ACM0002 methodology “For all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected”. Hence, $PE_y = 0$.

5.3 Leakage Emissions

As per para 56 of ACM0002 methodology, no leakage emissions need to be considered for the project activity.

5.4 GHG Emission Reductions and Carbon Dioxide Removals

Emission reduction is calculated as such-

$$ER_y = BE_y - PE_y$$

$$BE_y = 341,780 - 0$$

$$BE_y = 341,780 \text{ tCO}_2\text{e}$$

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCUs (tCO ₂ e)	Removal VCUs (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-Jul-2023 to 31-Dec-2023	278,266	0	0	278,266	0	278,266
01-Jan-2024 to 31-Mar-2024	63,514	0	0	63,514	0	63,514
Total	341,780	0	0	341,780	0	341,780

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
01-Jul-2023 to 31-Dec-2023	255,265	278,266	9.01 %	The variation in GHG emission reductions is attributed to Higher electricity generation (i.e. Plant Load Factor (PLF))

				which is affected by the factors like wind flow pattern.
01-Jan-2024 to 31-Mar-2024	126,245	63,514	-49.69 %	The variation in GHG emission reductions is attributed to lower electricity generation (i.e. lower Plant Load Factor (PLF) which is affected by the factors like wind flow pattern, grid availability, plant breakdowns.
Total	381,511	341,780	-10.41 %	The variation in GHG emission reductions is attributed to lower electricity generation (i.e. lower Plant Load Factor (PLF) which is affected by the factors like wind flow pattern, grid availability, plant breakdowns.

APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

There no any commercially sensitive information that has been excluded from the public version of the monitoring report.

Section	Information	Justification
N/A	N/A	N/A

APPENDIX 2: TRAINING RECORDS

The trainings provided by Project proponent at the project location is as such-

SI No.	Location of training	Topic of training	Date of training
1	Mytrah & Maniychi	Safety induction	08-February-2024

APPENDIX 3: METER CALIBRATION DETAILS

The details of the calibration status of the energy meters used for monitoring of the electricity generation-

Meter serial No.	Make	Model	Class	Calibration date	Calibration due date
SA0013A (Main meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026
SA0014A (Check meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026
SA0016A (Standby meter)	Secure	Premier	0.2 S	26-June-2021	25-June-2026

APPENDIX 4: MAJOR BREAKDOWN DETAILS

Date	Stop Time (HH:MM:SS)	Start time (HH:MM:SS)	Duration (HH:MM:SS)	Description	Action taken
04-July-2023	16:52	18:04	1:12:00	Maintenance	3rd Annual DTA Maintenance completed
04-July-2023	15:00	16:08	1:08:00	Maintenance	3rd Annual DTA Maintenance completed
04-July-2023	11:34	13:28	1:54:00	Maintenance	3rd Annual DTA Maintenance completed
05-July-2023	11:16	13:40	2:24:00	Maintenance	Annual Maintenance greasing work completed
07-July-2023	12:04	17:34	5:30:00	Maintenance	1st Annual Maintenance work day 1 completed
08-July-2023	9:53	17:13	7:20:00	Maintenance	1st Annual Maintenance completed
08-July-2023	14:04	15:36	1:32:00	Maintenance	DTA Annual Maintenance work done
08-July-2023	11:38	13:31	1:53:00	Maintenance	DTA Annual Maintenance work done
10-July-2023	10:37	18:10	7:33:00	Maintenance	1st Annual Maintenance day 1 activity completed
29-July-2023	11:02	15:45	4:43:00	Maintenance	Annual maintenance work day 1
01-August-2023	9:59	17:37	7:38:00	Maintenance	4th Annual Maintenance work completed
03-August-2023	10:21	17:52	7:31:00	Maintenance	4th Annual maintenance day 1 activity completed
04-August-2023	10:24	15:26	5:02:00	Maintenance	4th Annual Maintenance work completed
17-August-2023	12:49	14:33	1:44:00	Maintenance	4th Annual Maintenance work
17-August-2023	15:29	17:11	1:42:00	Maintenance	4th Annual Maintenance work
19-August-2023	11:04	16:54	5:50:00	Maintenance	Annual maintenance work day 1 completed
21-August-2023	9:30	17:59	8:29:00	Maintenance	Annual Maintenance day to activities done
22-August-2023	11:23	17:44	6:21:00	Maintenance	AM day 1 activities done
04-September-2023	11:46	12:04	0:18:00	Maintenance	Annual Maintenance work
06-September-2023	14:56	18:03	3:07:00	Maintenance	Annual Maintenance work done

08-September-2023	11:16	14:38	3:22:00	Maintenance	Annual Maintenance work
09-September-2023	11:14	18:26	7:12:00	Maintenance	Annual Maintenance work completed
16-September-2023	10:26	17:40	7:14:00	Maintenance	Annual Maintenance work completed
25-September-2023	11:37	17:33	5:56:00	Maintenance	Semi Annual Maintenance work done and replaced brake pad for brake pad warning closing work done
27-September-2023	14:00	19:00	5:00:00	Maintenance	Semi Annual Maintenance
27-September-2023	15:00	17:45	2:45:00	Maintenance	Annual maintenance work
29-September-2023	11:23	18:24	7:01:00	Maintenance	Annual Maintenance work done
30-September-2023	9:36	17:53	8:17:00	Maintenance	Annual Maintenance work completed
03-October-2023	10:41	19:00	8:19:00	Maintenance	Semi annual Maintenance work done
03-October-2023	11:17	16:24	5:07:00	Maintenance	BIM DTA maintenance work done
04-October-2023	15:30	17:27	1:57:00	Maintenance	4th AM DTA maintenance work done
04-October-2023	10:56	18:19	7:23:00	Maintenance	SAM work done& PA for communication error
05-October-2023	14:01	15:32	1:31:00	Maintenance	4th AM DTA maintenance work
05-October-2023	15:32	17:04	1:32:00	Maintenance	4th AM DTA maintenance work
05-October-2023	11:25	17:24	5:59:00	Maintenance	Semi annual maintenance work completed
06-October-2023	14:01	17:01	3:00:00	Maintenance	BIM DTA maintenance work completed
06-October-2023	11:54	17:48	5:54:00	Maintenance	5th Semi annual maintenance work done
07-October-2023	11:04	18:08	7:04:00	Maintenance	Semi annual maintenance work completed
23-October-2023	10:11	16:55	6:44:00	Maintenance	Annual Maintenance work completed
26-October-2023	10:40	17:47	7:07:00	Maintenance	SAM Maintenance work completed

26-October-2023	13:58	16:52	2:54:00	Maintenance	DTA annual Maintenance work and Blade inspection work completed and UPS battery replacement done
28-October-2023	10:22	16:44	6:22:00	Maintenance	SAM Maintenance work completed
30-October-2023	10:39	18:05	7:26:00	Maintenance	Semi annual maintenance work
31-October-2023	11:35	18:08	6:33:00	maintenance	Semi annual maintenance work
31-October-2023	12:20	14:08	1:48:00	maintenance	DTA maintenance work completed
31-October-2023	15:25	17:18	1:53:00	maintenance	DTA maintenance work completed
01-November-2023	9:29	17:59	8:30:00	maintenance	Semi annual maintenance work
02-November-2023	10:22	17:13	6:51:00	maintenance	Semi annual Maintenance work
03-November-2023	0:00	17:54	17:54:00	Maintenance	Annual maintenance day 1 completed and started.
04-November-2023	10:51	17:55	7:04:00	Maintenance	2nd day Annual Maintenance & DTA & USS PM work completed
16-November-2023	11:16	17:24	6:08:00	Maintenance	Semi Annual Maintenance
17-November-2023	11:03	16:52	5:49:00	Maintenance	Semi Annual Maintenance
18-November-2023	0:00	0:00	24:00:00	Maintenance	BIM Day-2 & After PM Safety chain open error - Planned to attend by tomorrow
29-November-2023	10:50	17:42	6:52:00	Maintenance	SAM Activity
02-December-2023	10:40	17:34	6:54:00	Maintenance	SAM Activity
02-December-2023	11:33	18:22	6:49:00	Maintenance	SAM Activity
09-December-2023	16:28	16:29	0:01:00	Wind vane failure	Checked the log and restore the turbine
21-December-2023	0:00	16:20	16:20:00	Grid loss	Found VCB tripped by under voltage coil due to

					long grid fail, corrected and charged
26-December-2023	10:56	17:28	6:32:00	Maintenance	Team checked all the related connections and observed fan & heater failure at the Axis-1, Which was corrected. More over SAM activity carried out
03-January-2024	10:17	16:59	6:42:00	Maintenance	SAM Activities
05-January-2024	10:43	17:54	7:11:00	Maintenance	1st Annual Maintenance Activities carried out
09-January-2024	10:46	17:58	7:12:00	Maintenance	Annual Maintenance completed
11-January-2024	11:10	17:22	6:12:00	Maintenance	Semi Annual Maintenance completed
13-January-2024	0:00	19:58	19:58:00	Maintenance	Annual Maintenance Day1 completed
18-January-2024	11:21	16:35	5:14:00	Maintenance	SAM Activity
19-January-2024	10:21	17:22	7:01:00	Maintenance	SAM activity
19-January-2024	10:49	16:59	6:10:00	Maintenance	SAM activity
20-January-2024	11:45	17:41	5:56:00	Maintenance	SAM Activity
29-January-2024	11:29	18:08	6:39:00	Maintenance	SAM Activity done
30-January-2024	12:47	18:27	5:40:00	Maintenance	SAM Activity
31-January-2024	11:02	18:26	7:24:00	Maintenance	SAM Activity. Moreover, team closed the pitch motor over temperature anomaly by replacing the failure RTD at the axis-2 and preventivly team replaced UPS batteries.
06-February-2024	18:22	18:33	0:11:00	wiring issue grid or line converter	Checked the log and restore the turbine
08-February-2024	10:58	17:26	6:28:00	maintenance	Semi annual maintenance work done
08-February-2024	12:23	18:18	5:55:00	maintenance	Semi annual maintenance work done
09-February-2024	11:35	17:12	5:37:00	maintenance	Semi annual maintenance work done
09-February-2024	11:26	18:30	7:04:00	maintenance	Annual Maintenance work day 1 completed

10-February-2024	11:06	16:55	5:49:00	maintenance	Semi annual maintenance work done
10-February-2024	7:11	7:23	0:12:00	wiring issue grid or line converter	Checked the log and restore the turbine
10-February-2024	10:29	17:47	7:18:00	maintenance	Annual maintenance day 2 work completed
10-February-2024	1:35	3:31	1:56:00	wiring issue grid or line converter	Checked the log and restore the turbine / Pathway issue
13-February-2024	12:00	18:45	6:45:00	Maintenance	Annual Maintenance day 2 work done
13-February-2024	11:37	17:53	6:16:00	Maintenance	Semi annual Maintenance work
14-February-2024	11:29	18:51	7:22:00	Maintenance	Semi annual Maintenance work
14-February-2024	11:21	17:42	6:21:00	Maintenance	Semi annual Maintenance work
15-February-2024	13:22	18:36	5:14:00	Maintenance	Semi annual Maintenance work
15-February-2024	11:16	15:58	4:42:00	Maintenance	Semi annual Maintenance work
16-February-2024	13:07	18:10	5:03:00	Maintenance	Semi annual Maintenance work
16-February-2024	11:03	18:20	7:17:00	Maintenance	Semi annual Maintenance work
17-February-2024	10:54	18:05	7:11:00	Maintenance	Annual Maintenance work
17-February-2024	11:36	17:28	5:52:00	Maintenance	Semi annual Maintenance work
19-February-2024	11:50	18:24	6:34:00	maintenance	Semi annual Maintenance work done
19-February-2024	9:32	18:14	8:42:00	maintenance	Annual Maintenance Day2 work done
20-February-2024	11:00	18:04	7:04:00	maintenance	Annual Maintenance work day 1 completed

20-February-2024	11:17	13:45	2:28:00	maintenance	Annual DTA maintenance work done
20-February-2024	14:33	16:46	2:13:00	maintenance	Annual DTA maintenance work done
21-February-2024	11:41	17:09	5:28:00	maintenance	Semi annual maintenance work
21-February-2024	9:59	18:32	8:33:00	maintenance	Annual maintenance day2 work completed
22-February-2024	12:07	19:32	7:25:00	Maintenance	Semi annual maintenance work done
22-February-2024	13:54	15:12	1:18:00	wiring issue grid or line converter	Checked the log and restore the turbine
23-February-2024	10:31	18:01	7:30:00	maintenance	Semi annual maintenance work done
24-February-2024	9:57	15:32	5:35:00	Maintenance	Semi annual maintenance work done
24-February-2024	11:01	17:54	6:53:00	Maintenance	Annual Maintenance day 1 work completed / WTG Winch and cliamb assist inspection work done as per schedule
26-February-2024	10:15	18:06	7:51:00	Maintenance	Annual Maintenance day2 work completed
27-February-2024	11:52	17:48	5:56:00	Maintenance	Semi annual Maintenance work done
28-February-2024	11:30	17:48	6:18:00	Maintenance	Semi Annual Maintenance work done
29-February-2024	10:58	13:37	2:39:00	Maintenance	DTA annual Maintenance work done
29-February-2024	14:24	16:32	2:08:00	Maintenance	DTA annual Maintenance work done
01-March-2024	11:09	13:49	2:40:00	Maintenance	DTA Maintenance work done
01-March-2024	14:36	16:28	1:52:00	Maintenance	DTA Maintenance work done
02-March-2024	10:58	13:07	2:09:00	Maintenance	DTA Maintenance work done
04-March-2024	12:13	13:57	1:44:00	Maintenance	Annual DTA maintenance work done

04-March-2024	15:07	17:03	1:56:00	Maintenance	Annual DTA maintenance work done
05-March-2024	9:43	11:37	1:54:00	Maintenance	Annual DTA maintenance work done
05-March-2024	12:03	14:56	2:53:00	Maintenance	Annual DTA maintenance work done
05-March-2024	15:08	17:37	2:29:00	Maintenance	Annual DTA maintenance work done
06-March-2024	15:07	17:26	2:19:00	Maintenance	Annual DTA maintenance work
21-March-2024	10:03	17:18	7:15:00	Maintenance	Annual Maintenance day2 work completed
22-March-2024	10:09	17:42	7:33:00	Maintenance	Annual Maintenance day1 work
23-March-2024	10:53	17:42	6:49:00	Maintenance	Annual Maintenance work day2 completed
25-March-2024	11:06	18:30	7:24:00	Maintenance	All event logs checked turbine restarted.
26-March-2024	10:18	16:11	5:53:00	Maintenance	After maintenance day2 completed turbine restarted.
27-March-2024	9:15	16:58	7:43:00	Maintenance	After maintenance day1 completed turbine restarted.
28-March-2024	10:08	15:15	5:07:00	Maintenance	After maintenance day2 completed turbine restarted.