



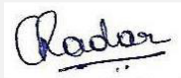
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199.70 MW WIND PROJECT IN MAHARASHTRA BY BWDPL



Document Prepared By: 4K Earth Science Private Limited

Report ID	24026-VCS-VER
Project title	199.70 MW Wind Project in Maharashtra by BWDPL.
Project ID	1447
Verification period	01-10-2022 To 16-05-2023 (including both the days)
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Version	01
VCS Standard Version	VCS Standard, v4.7
Client	Solaura Power Private Limited.

Prepared by	4K Earth Science Private Limited No.20, 'SNS Arcade', Basement Floor, Old Airport Main Road, Konena Agrahara, Bangalore-560017, Karnataka, India Email: doe@4kearthscience.com , 4kearthscience@gmail.com Website: http://www.4kearthscience.com/
Approved by	Chandrakala R  Managing Director
Work carried out by	Mr. Ma Paa Puratchikkannal (Team Leader TL 1.2) & (Technical Expert TE 1.2) Mr. Stalin S (Technical Reviewer TA 1.2) Mr. Gurubalaji K (Team Member/Verifier) Mr. Ragul B R (Trainee)

Summary:

4K Earth Science Private Limited (4KES) has been contracted by, "Solaura Power Private Limited" to undertake verification and certification for the greenhouse gas (GHG) emission reductions reported from '199.70 MW Wind Project in Maharashtra by BWDPL' for the monitoring period 01-10-2022 To 16-05-2023 in the initial monitoring report Version 1.0, dated 25/04/2024.

The main purpose of this project activity is to generate clean form of electricity through renewable wind energy source. Bothe Windfarm Development Pvt. Ltd. is the promoter of the proposed project activity. The Project activity envisages implementation of 40 WTGs of individual capacity 2 MW each, and 57 WTGs of individual capacity 2.1 MW each, in the state of Maharashtra. The technology employed is of Suzlon Energy Limited (2.1 MW) and Vestas (2 MW). The total project capacity is 199.7 MW.

The Project activity is a new facility (Greenfield) and it plans to utilize wind energy to generate electricity and supply it to distribution licensees which is a part of the NEWNE (Northern, Eastern, Western and North-Eastern) grid of India.

The Project activity has generated 1,41,612.54 MWh of energy to the NEWNE Grid (now a part of unified Indian grid) of India during the current monitoring period. This result in emission reductions of 1,38,354 tCO₂e by its operation during the current monitoring period.

Implementation status of the project activity has been verified during the on-site visit interviews/physical site visit, supportive for COD and photos /16/.

Verification team has verified the capacity of the project activity by physical on-site visit, technical specification /09/, photographs /16/ and supportive document /24/ etc.

The net electricity generated from this project is supplied to the grid and PPA is signed between PP and Bothe Windfarm Development Pvt. Ltd. /15/ which is still valid.

The project 199.70 MW Wind Project in Maharashtra by BWDPL' have started commercial operation on 17/05/2013 respectively as verified from commissioning certificates /10/.

During current monitoring period i.e. from 01-10-2022 To 16-05-2023, the project activity has supplied 1,41,612.54 MWh net electricity to the grid, there by resulted in emission reduction of 1,38,354 tCO₂e. The monitoring period subject to this monitoring report is inclusive of first and last day of period.

A risk-based approach has been followed to perform the 5th periodic verification of the project activity. In the course of the verification, 08 Corrective Action Requests (CARs) and 05 Clarification (CL) were raised.

The management of the 'Bothe Windfarm Development Pvt. Ltd' responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project final monitoring report Version 2.0 dated 10/07/2024. The calculation and determination of GHG emission reductions from the project is the responsibility of the management of the Solaura power private Limited. The development and maintenance of records and reporting procedures are in accordance with the Monitoring Report Version 2.0 dated 10/07/2024.

It is our responsibility to express an independent GHG verification opinion on the GHG emissions and on the calculation of GHG emission reductions from the project for the period 01-10-2022 To 16-05-2023 based on the reported emission reductions in the final monitoring report Version 2.0 dated 10/07/2024 for the same period.

Based on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these, 4KES planned and performed our work to obtain the information and explanations that we considered necessary to provide sufficient evidence for us to give reasonable assurance that this reported amount of GHG emission reductions for the period is fairly stated.

4KES confirms the following;

Reporting period: 01-10-2022 To 16-05-2023

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)
(01-10-2022) to (31-12-2022)	62,293	0	0	62,293	0	62,293
(01-01-2023 to 16-05-2023)	76,061	0	0	76,061	0	76,061
Total	1,38,354	0	0	1,38,354	0	1,38,354

CONTENTS

1	INTRODUCTION	6
1.1	Objective.....	6
1.2	Scope and Criteria	6
1.3	Level of Assurance.....	6
1.4	Summary Description of the Project	7
2	VERIFICATION PROCESS	14
2.1	Method and Criteria.....	15
2.2	Document Review	15
2.3	Interviews.....	15
2.4	Site Visits	16
2.5	Resolution of Findings	16
2.6	Eligibility for Validation Activities	17
3	VALIDATION FINDINGS	18
3.1	Methodology Deviations.....	18
3.2	Project Description Deviations.....	18
3.3	New Project Activity Instances in Grouped Projects	18
3.4	Baseline Reassessment	18
4	VERIFICATION FINDINGS.....	18
4.1	Project Details	18
4.2	Safeguards and Stakeholder Engagement	21
4.3	Accuracy of Reduction and Removal Calculations.....	28
4.4	Quality of Evidence to Determine Reductions and Removals.....	36
4.5	Non-Permanence Risk Analysis.....	37
5	VERIFICATION OPINION.....	37
5.1	Verification Summary	37
5.2	Verification Conclusion	38
5.3	Ex-ante vs Ex-post ERR Comparison	39

APPENDIX I: LIST OF DOCUMENTS.....	40
APPENDIX II: VERIFICATION FINDINGS	43
APPENDIX III: TEAM COMPETENCE	53
APPENDIX IV: ABBREVIATIONS	56

1 INTRODUCTION

1.1 Objective

4KES has been commissioned by 'Solaura power private Limited' to perform verification of its registered VCS project '199.70 MW Wind Project in Maharashtra by BWDPL', for the reported GHG emission reductions for the given monitoring period 01-10-2022 To 16-05-2023 (both dates included). The VCS projects must undergo an independent third-party verification and certification of emission reductions as the basis for issuance of Voluntary Emission Reductions (VERs).

The objectives of this verification exercise are, by review of objective evidence, to establish that:

- The project activity has been implemented and operated as per the project description (PD) and that all physical features (technology, project equipment and monitoring and metering equipment) of the project are in place;
- Monitoring report and other supporting documents are complete;
- The data is recorded and stored as per the monitoring methodology and approved monitoring plan.
- To confirm that the monitoring system is implemented and fully functional to generate Voluntary Emission Reductions (VERs/VCUs) without any double counting, and
- To establish that the data reported are accurate, complete, consistent, transparent and free of material error or omission by checking the monitoring records and the emissions reduction calculation.

1.2 Scope and Criteria

The scope of verification is to assess the claims and assumptions made in the VCS monitoring report (MR) against the VCS criteria, including but not limited to, VCS standard, applied methodology and other relevant rules and requirements established for VCS project activities.

The Verification is not meant to provide any consulting towards the project participants. However, stated requests for clarification and/or correction actions request may have provided inputs for improvement of the project design.

1.3 Level of Assurance

The verification team verified the complete monitoring data /14/, /15/ and /12/ for the monitoring parameter of the monitoring plan against the Monitoring report/1.2/ and ER Calculation sheet /2.2/ and confirms that the reported emission reductions are free from any type of material errors. Physical on-site visit was also conducted to verify the implementation and monitoring plan of the project activity. The implementation of the project activity (i.e. major equipment and the metering arrangement) was verified during the physical on-site visit and found in accordance with the monitoring report /1.2/ and registered PD /05/. Verification team has also verified the technical details of the project equipment and metering arrangement with the supportive documents /09/, /10/, /11/, /12/ and /14/ and found correct. Therefore, 4KES confirms that the verification is conducted with reasonable level of assurance.

1.4 Summary Description of the Project

The main purpose of this project activity is to generate clean form of electricity through renewable wind energy source. Bothe Windfarm Development Pvt. Ltd. is the promoter of the proposed project activity. The Project activity envisages implementation of 40 WTGs of individual capacity 2 MW each, and 57 WTGs of individual capacity 2.1 MW each, in the state of Maharashtra. The technology employed is of Suzlon Energy Limited (2.1 MW) and Vestas (2 MW). The total project capacity is 199.7 MW.

The Project activity is a new facility (Greenfield) and it plans to utilize wind energy to generate electricity and supply it to distribution licensees which is a part of the NEWNE (Northern, Eastern, Western and North-Eastern) grid of India.

The Project activity has generated 1,41,612.54 MWh of energy to the NEWNE Grid (now a part of unified Indian grid) of India during the current monitoring period. This result in emission reductions of 1,38,354 tCO₂e by its operation during the current monitoring period.

During current monitoring period i.e. from 01-10-2022 To 16-05-2023, the project activity has supplied 1,41,612.54 MWh net electricity to the grid, there by resulted in emission reduction of 1,38,354 tCO₂e. The monitoring period subject to this monitoring report is inclusive of first and last day of period.

Verification team has verified the capacity of the project activity by physical on-site visit, technical specification /09/, photographs /16/ and supportive document /18/ etc.

The net electricity generated from this project is supplied to the grid and PPA is signed between PP and Bothe Windfarm Development Pvt. Ltd. /15/ which is still valid. Operation and Maintenance of the project plant is done by Vestas/31/.

The technical details of the project equipment have been verified from physical on-site visit, Manufacturer technical specifications /09/ and photographs /16/ etc.

The project 199.70 MW Wind Project in Maharashtra by BWDPL' have started commercial operation on 17/05/2013 respectively as verified from commissioning certificates /10/.

The projects activity is in 9 villages namely, Khokade, Bothe, Ransingwadi, Shripalwan, Ugalyachiwadi, Khandyachiwadi, Garudachiwadi, Katalgewadi, and Shirawali, in Satara district in the state of Maharashtra.

The project capacity and WTG commissioning dates including feeder number with respective villages are given bellow table 01:

Table 01:

S No.	WTG ID	Village Name	Commissioning Date	Latitude	Longitude	Turbine Type	Capacity	Feeder No.
1	I - 48	Khokade	21/06/2013	17°49'0.94"N	74°21'54.27"E	Vestas V100 - 2.0 MW		Feeder 2
2	I - 64	Khokade	21/06/2013	17°48'50.69"N	74°21'57.74"E	Vestas V100 - 2.0 MW		Feeder 2
3	I - 1	Khokade	27/05/2013	17°49'4.17"N	74°22'10.83"E	Vestas V100 - 2.0 MW		Feeder 2
4	I - 66	Khokade	20/09/2013	17°48'46.87" N	74°22'14.56"E	Vestas V100 - 2.0 MW		Feeder 2
5	I - 7	Khokade	17/05/2013	17°48'33.09" N	74°22'6.53"E	Vestas V100 - 2.0 MW		Feeder 1
6	I - 23	Khokade	18/06/2013	17°48'25.04" N	74°22'14"E	Vestas V100 - 2.0 MW		Feeder 1
7	I - 25	Khokade	21/06/2013	17°48'18.57" N	74°22'17.28"E	Vestas V100 - 2.0 MW		Feeder 1
8	I - 29	Khokade	21/06/2013	17°48'9.93" N	74°22'21.01"E	Vestas V100 - 2.0 MW		Feeder 1
9	I - 68	Khokade	21/06/2013	17°48'6.12" N	74°22'9.07"E	Vestas V100 - 2.0 MW		Feeder 1
10	I - 2	Khokade	27/05/2013	17°48'40.87" N	74°21'53.75"E	Vestas V100 - 2.0 MW		Feeder 2
11	I - 21	Khokade	18/06/2013	17°47'57.85" N	74°22'34.67"E	Vestas V100 - 2.0 MW		Feeder 1
12	I - 27	Khokade	21/06/2013	17°47'49.62" N	74°22'37.72"E	Vestas V100 - 2.0 MW		Feeder 6
13	I - 3	Khokade	27/05/2013	17°48'12.62" N	74°22'37.27"E	Vestas V100 - 2.0 MW		Feeder 1

14	I - 39	Khokade	21/08/2013	17°48'35.76" N	74°22'20.65"E	Vestas V100 - 2.0 MW	Feeder 1
15	I - 49	Khokade	09/10/2013	17°48'35.19" N	74°22'35.36"E	Vestas V100 - 2.0 MW	Feeder 1
16	I - 30	Khokade	10/10/2013	17°48'32.35" N	74°22'55.13"E	Vestas V100 - 2.0 MW	Feeder 1
17	I - 15	Bothe	10/10/2013	17°46'11.81" N	74°22'31.51"E	Vestas V100 - 2.0 MW	Feeder 3
18	I - 47	Bothe	09/10/2013	17°47'39.05" N	74°23'34.62"E	Vestas V100 - 2.0 MW	Feeder 4
19	I - 59	Bothe	24/01/2014	17°47'18.52" N	74°23'22.55"E	Vestas V100 - 2.0 MW	Feeder 4
20	I - 52	Bothe	20/02/2014	17°46'41.57" N	74°22'25.82"E	Vestas V100 - 2.0 MW	Feeder 3
21	I - 8	Bothe	11/09/2013	17°47'9.87" N	74°22'13.31"E	Vestas V100 - 2.0 MW	Feeder 3
22	I - 35	Bothe	11/09/2013	17°45'51.16" N	74°23'45.48"E	Vestas V100 - 2.0 MW	Feeder 3
23	I - 37	Bothe	24/01/2014	17°45'39.2" N	74°23'29.9"E	Vestas V100 - 2.0 MW	Feeder 3
24	I - 5	Bothe	15/06/2013	17°46'55.31" N	74°22'18.22"E	Vestas V100 - 2.0 MW	Feeder 3
25	I - 56	Bothe	11/09/2013	17°47'18.06" N	74°22'49.87"E	Vestas V100 - 2.0 MW	Feeder 4
26	I - 41	Bothe	11/09/2013	17°47'34.34" N	74°22'55.64"E	Vestas V100 - 2.0 MW	Feeder 4
27	I - 63	Bothe	11/09/2013	17°47'32.05" N	74°23'12.81"E	Vestas V100 - 2.0 MW	Feeder 4
28	I - 6	Bothe	11/09/2013	17°46'39.09" N	74°23'25.72"E	Vestas V100 - 2.0 MW	Feeder 4
29	I - 60	Bothe	09/01/2013	17°47'26.47" N	74°23'29.02"E	Vestas V100 - 2.0 MW	Feeder 4

30	I - 4	Bothe	15/06/2013	17°47'5.06" N	74°23'31.96"E	Vestas V100 - 2.0 MW	Feeder 4
31	I - 42	Bothe	11/09/2013	17°46'8.23" N	74°23'17.01"E	Vestas V100 - 2.0 MW	Feeder 3
32	I - 40	Bothe	24/01/2014	17°45'48.76" N	74°23'27.19"E	Vestas V100 - 2.0 MW	Feeder 3
33	I - 43	Bothe	11/09/2013	17°45'26.65" N	74°23'43.69"E	Vestas V100 - 2.0 MW	Feeder 3
34	I - 45	Bothe	11/09/2013	17°45'24.69" N	74°23'30.9"E	Vestas V100 - 2.0 MW	Feeder 3
35	I - 33	Bothe	31/01/2014	17°46'56.27" N	74°22'3.54"E	Vestas V100 - 2.0 MW	Feeder 3
36	I - 71	Bothe	24/01/2014	17°47'21.97" N	74°23'2.77"E	Vestas V100 - 2.0 MW	Feeder 4
37	I - 72	Bothe	24/01/2014	17°46'36.9" N	74°23'10.59"E	Vestas V100 - 2.0 MW	Feeder 3
38	I - 73	Bothe	31/01/2014	17°46'57.7" N	74°22'34.54"E	Vestas V100 - 2.0 MW	Feeder 3
39	I - 75	Bothe	31/01/2014	17°46'7.98" N	74°22'53.33"E	Vestas V100 - 2.0 MW	Feeder 3
40	I - 76	Bothe	24/01/2014	17°46'3.41" N	74°23'41.16"E	Vestas V100 - 2.0 MW	Feeder 3
41	I - 22	Bothe	29/03/2014	17°47'7.88" N	74°22'2.34"E	Suzlon S97 - 2.1 MW	Feeder 3
42	I - 57	Bothe	26/03/2014	17°46'31.41" N	74°22'13.92"E	Suzlon S97 - 2.1 MW	Feeder 3
43	I - 16	Bothe	26/03/2014	17°46'13.81" N	74°22'8.82"E	Suzlon S97 - 2.1 MW	Feeder 3
44	I - 24	Bothe	26/03/2014	17°46'24.75" N	74°22'36.66"E	Suzlon S97 - 2.1 MW	Feeder 3
45	I - 34	Bothe	31/03/2014	17°47'8.54" N	74°23'14.82"E	Suzlon S97 - 2.1 MW	Feeder 4

46	I - 26	Bothe	07/09/2013	17°45'56.89" N	74°23'6.03"E	Suzlon S97 - 2.1 MW	Feeder 3
47	I - 77	Bothe	24/01/2014	17°45'18.43" N	74°23'15.43"E	Suzlon S97 - 2.1 MW	Feeder 3
48	I - 81	Bothe	26/03/2014	17°46'55.51" N	74°23'10.69"E	Suzlon S97 - 2.1 MW	Feeder 4
49	I - 82	Bothe	26/03/2014	17°45'35.3" N	74°23'41.15"E	Suzlon S97 - 2.1 MW	Feeder 5
50	I - 18	Ransingw adi	30/03/2014	17°44'54.36" N	74°23'18.67"E	Suzlon S97 - 2.1 MW	Feeder 5
51	SP40	Shripalwa n	11/12/2014	17° 50' 29.0472 " N	74° 26' 49.751"E	Suzlon S97 - 2.1 MW	Feeder 8
52	SP05	Shripalwa n	11/12/2014	17° 49' 58.7172" N	74° 24' 41.789"E	Suzlon S97 - 2.1 MW	Feeder 8
53	SP06	Shripalwa n	11/12/2014	17° 50' 9.7476" N	74° 24' 41.173"E	Suzlon S97 - 2.1 MW	Feeder 8
54	SP07	Shripalwa n	11/12/2014	17° 50' 18.4884" N	74° 24' 37.408"E	Suzlon S97 - 2.1 MW	Feeder 8
55	SP08	Shripalwa n	11/12/2014	17° 50' 22.7508" N	74° 24' 27.068"E	Suzlon S97 - 2.1 MW	Feeder 8
56	SP09	Shripalwa n	11/12/2014	17° 50' 17.9016" N	74° 25' 20.456"E	Suzlon S97 - 2.1 MW	Feeder 8
57	SP10	Shripalwa n	11/12/2014	17° 50' 25.188" N	74° 25' 12.997"E	Suzlon S97 - 2.1 MW	Feeder 8
58	SP12	Shripalwa n	25/12/2014	17° 50' 22.272" N	74° 25' 46.092"E	Suzlon S97 - 2.1 MW	Feeder 8
59	SP13	Shripalwa n	25/12/2014	17° 50' 30.2208" N	74° 25' 38.622"E	Suzlon S97 - 2.1 MW	Feeder 8
60	SP17	Shripalwa n	25/12/2014	17° 50' 51.5688" N	74° 25' 50.822"E	Suzlon S97 - 2.1 MW	Feeder 8
61	SP19	Ugalyachi wadi	16/12/2014	17° 49' 25.1364" N	74° 26' 43.314"E	Suzlon S97 - 2.1 MW	Feeder 6

62	SP20	Ugalyachi wadi	16/12/2014	17° 49' 35.3208" N	74° 26' 42.976"E	Suzlon S97 - 2.1 MW	Feeder 6
63	SP21	Ugalyachi wadi	30/12/2014	17° 49' 44.5188" N	74° 26' 39.415"E	Suzlon S97 - 2.1 MW	Feeder 6
64	SP22	Khandyac hiwadi	30/12/2014	17° 49' 56.8524" N	74° 26' 52.08"E	Suzlon S97 - 2.1 MW	Feeder 6
65	SP26	Khandyac hiwadi	30/12/2014	17° 49' 51.0456" N	74° 27' 20.603"E	Suzlon S97 - 2.1 MW	Feeder 6
66	SP27	Khandyac hiwadi	16/12/2014	17° 50' 2.4864" N	74° 27' 5.382"E	Suzlon S97 - 2.1 MW	Feeder 6
67	SP29 ¹	Khandyac hiwadi	26/12/2014	17° 48' 57.0636" N	74° 28' 20.01"E	Suzlon S97 - 2.1 MW	Feeder 7
68	SP30	Khandyac hiwadi	26/12/2014	17° 49' 7.8636" N	74° 28' 18.552"E	Suzlon S97 - 2.1 MW	Feeder 7
69	SP31	Khandyac hiwadi	26/12/2014	17° 49' 16.8132" N	74° 28' 20.021"E	Suzlon S97 - 2.1 MW	Feeder 7
70	SP32	Khandyac hiwadi	26/12/2014	17° 49' 24.5964" N	74° 28' 9.671"E	Suzlon S97 - 2.1 MW	Feeder 7
71	SP33	Khandyac hiwadi	26/12/2014	17° 49' 36.5268" N	74° 28' 11.446"E	Suzlon S97 - 2.1 MW	Feeder 7
72	SP34	Khandyac hiwadi	30/12/2014	17° 49' 43.5216" N	74° 28' 5.164"E	Suzlon S97 - 2.1 MW	Feeder 7
73	SP35	Khandyac hiwadi	30/12/2014	17° 49' 42.9276" N	74° 27' 50.551"E	Suzlon S97 - 2.1 MW	Feeder 7
74	SP36	Khandyac hiwadi	30/12/2014	17° 49' 56.4636" N	74° 27' 50.314"E	Suzlon S97 - 2.1 MW	Feeder 7
75	SP37	Khandyac hiwadi	30/12/2014	17° 49' 20.6328" N	74° 27' 36.826"E	Suzlon S97 - 2.1 MW	Feeder 7
76	SP38	Khandyac hiwadi	30/12/2014	17° 49' 26.6988" N	74° 28' 28.924"E	Suzlon S97 - 2.1 MW	Feeder 7

77	SP39	Khandyach hiwadi	30/12/2014	17° 49' 41.9232" N	74° 28' 52.763"E	Suzlon S97 - 2.1 MW	Feeder 7
78	SP41	Garudachi wadi	16/12/2014	17° 50' 36.6756" N	74° 26' 49.751"E	Suzlon S97 - 2.1 MW	Feeder 6
79	SP24	Garudachi wadi	16/12/2014	17° 50' 15.8676" N	74° 26' 21.923"E	Suzlon S97 - 2.1 MW	Feeder 6
80	SP28	Garudachi wadi	30/12/2014	17° 50' 19.77" N	74° 26' 43.584"E	Suzlon S97 - 2.1 MW	Feeder 6
81	I - 13	Ransingw adi	22/08/2014	17° 44' 12.336" N	74° 22' 46.297"E	Suzlon S97 - 2.1 MW	Feeder 2
82	I - 19	Katalgewa di	01/10/2014	17° 44' 14.5536" N	74° 23' 3.937"E	Suzlon S97 - 2.1 MW	Feeder 2
83	I - 31	Katalgewa di	01/10/2014	17° 44' 32.0496" N	74° 23' 22.618"E	Suzlon S97 - 2.1 MW	Feeder 2
84	I - 38	Katalgewa di	03/11/2014	17° 49' 33.6396" N	74° 28' 45.516"E	Suzlon S97 - 2.1 MW	Feeder 2
85	I - 53	Katalgewa di	22/08/2014	17° 44' 25.5948" N	74° 23' 28.957"E	Suzlon S97 - 2.1 MW	Feeder 2
86	I - 69	Katalgewa di	03/11/2014	17° 44' 6.5544" N	74° 23' 52.181"E	Suzlon S97 - 2.1 MW	Feeder 2
87	I - 28	Shirawali	03/11/2014	17° 44' 50.4636" N	74° 23' 25.31"E	Suzlon S97 - 2.1 MW	Feeder 2
88	I - 46	Shirawali	22/08/2014	17° 44' 50.4924" N	74° 23' 34.732"E	Suzlon S97 - 2.1 MW	Feeder 2
89	I - 61	Shirawali	22/08/2014	17° 44' 42.3348" N	74° 23' 45.179"E	Suzlon S97 - 2.1 MW	Feeder 2
90	I - 51	Katalgewa di	03/11/2014	17° 44' 42.7812" N	74° 23' 9.238"E	Suzlon S97 - 2.1 MW	Feeder 2
91	I - 80	Shirawali	16/11/2014	17° 44' 41.604" N	74° 25' 5.678 "E	Suzlon S97 - 2.1 MW	Feeder 2
92	I - 78	Shirawali	27/11/2014	17° 44' 36.132" N	74° 24' 24.08"E	Suzlon S97 - 2.1 MW	Feeder 2

93	I - 79	Shirawali	16/11/2014	17° 44' 33.522" N	74° 24' 50.324"E	Suzlon S97 - 2.1 MW	Feeder 2
94	I - 83	Shirawali	16/11/2014	17° 45' 4.1004" N	74° 24' 26.147"E	Suzlon S97 - 2.1 MW	Feeder 2
95	I - 17	Shirawali	27/11/2014	17° 44' 34.8108" N	74° 24' 35.208"E	Suzlon S97 - 2.1 MW	Feeder 2
96	I - 84	Khandyac hiwadi	30/12/2014	17° 49' 33.6396" N	74° 28' 45.516"E	Suzlon S97 - 2.1 MW	Feeder 7
97	SP25	Garudachi wadi	30/12/2014	17° 49' 29.3424" N	74° 26' 23.341"E	Suzlon S97 - 2.1 MW	Feeder 6

The project was commissioned on May 17, 2013, which is the earliest commissioning date for the windmill in this project. It has been operating successfully since then. Although, the Commissioning dates of the following WTG Numbers- SP29, SP30, SP31, SP32 AND SP33 have been changed to 26-December-2014 in current monitoring period. These revised dates are now consistent with the commissioning certificates referenced in document /10/. Hence it is accepted by the assessment team.

The verification team has confirmed the details of each WTG's capacity, commissioning dates, feeder numbers, and project locations through a physical on-site visit. This information was cross-verified using commissioning certificates (/10/), power purchase agreements (/15/), and other supporting documents (/24/) etc.

During current monitoring period i.e. from 01-10-2022 To 16-05-2023, the project activity has supplied 1,41,612.54 MWh net electricity to the grid, there by resulted in emission reduction of 1,38,354 tCO₂e. The monitoring period subject to this monitoring report is inclusive of first and last day of period.

Verification team has verified the capacity of the project activity by physical on-site visit, technical specification /10/, photographs /15/ and supportive document /24/ etc

2 VERIFICATION PROCESS

The registered VCS project is undergoing 5th verification under VCS (1st Crediting period), the approach adopted to ensure the quality of emission reductions is described in the following sections.

2.1 Method and Criteria

4KES assessed and determined whether the proposed implementation and operation of the project activity and the steps taken to report emission reductions comply with the criteria and relevant guidance provided by the VCS Board. The validation/verification process consist of the following three phases;

- A desk review of the VCS PD and VCS MR
- follow up interviews with project stakeholders
- The resolution of outstanding issues and issuance of final report and opinion.

The prepared verification report and other supporting documents then undergo an internal quality control before being submitted to the VCS executive board for issuance of credits as per VCS standard v4.7.

Duration of Verification:

Verification Contract	17/04/2024
Physical on-site visit Audit conducted on	28/05/2024
Desk review date	20/06/2024
Findings raised	20/06/2024
Draft Verification Report	20/06/2024
Final Verification Report	19/08/2024

2.2 Document Review

The verification is performed primarily as a document review of the approved PD and associated documents as stated in detail in appendix I of this document. The assessment is performed by a verification team using a protocol. The cross checks between information provided in the Monitoring report, PD and information from sources other than those used, if available, the team's sectoral or local expertise and, if necessary, independent background investigations.

2.3 Interviews

Verification team performed the Physical on-site visit and interviewed PP representatives/Employees/Carbon Consultant/Stakeholders and reviewed documents to achieve a reasonable level of assurance in the verification. The verification team conducted an on-site visit in accordance with the "Sampling and Surveys for CDM Project Activities and Programmes of Activities Version 09.0. The 100% sampling was take palaces in the project activity, 97 wind turbine generators (WTGs) across 9 villages were inspected. The verification team interviewed stakeholders, project proponents, and local residents, and photographic evidence was recorded /16/.

Location	The projects activity is in 9 villages namely, Khokade, Bothe, Ransingwadi, Shripalwan, Ugalyachiwadi, Khandyachiwadi, Garudachiwadi, Katalgewadi and Shirawali, in Satara district in the state
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	of Maharashtra. Each village of WTG located geo-coordinates are included in above table 01 for your reference.	
Dates	28-05-2024,29-05-2024 and 30-05-2024 (Physical site visit by Local Expert and Technical member)	
Key points discussed	Name of person, interviewed	Designation, Organization
Project Implementation, Operational data, Calibration, Data collection, QA/QC, procedures, Calculation of ERs, VCS requirements	Naveen Sairam A J	Consultant- Solaura Power Private Limited
	Pralhad Patel	Operations and Maintenance - BWDPL
	Sachin Power	Local stakeholder
	Dattatroy Jadhav	Local stakeholder
	Dannell T	Local stakeholder
	Nathuram K	Local stakeholder

2.4 Site Visits

Verification team performed the Physical on-site visit and interviewed PP representatives/Employees/Carbon Consultant/Stakeholders and reviewed documents to achieve a reasonable level of assurance in the verification. No sampling procedures were adopted in document verification and all the document were cross checked to ensure conservative estimation of emission reduction. The name of the persons interviewed is reported under section 2.3 of this report.

2.5 Resolution of Findings

The objective of this step is to identify, discuss and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and Microsoft Teams remote interview/Physical site visit. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and non-conformities, which may be of following types;

CAR (Corrective Action Request) is raised if one of the following occurs:

- Non-compliance with the monitoring plan, the methodology or the standardized baseline are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient;
- Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;

- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;
- Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

Clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met. All CARs and CLs raised by the 4KES during verification shall be resolved prior to submitting a request for issuance.

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

During the Verification process, total 08 CAR and 05 CL were raised and resolved satisfactorily. No FAR has been raised in the verification. The list of CARs/CLs/FARs raised and the response provided, the mean of validation, reasons for their closure and references to correction in the relevant documents are provided in Appendix II of this report.

2.5.1 Forward Action Requests

No FAR raised during the verification.

2.6 Eligibility for Validation Activities

4KES conducted the verification activity; the validation was performed by the other VVB. 4KES has a valid UNFCCC accreditation in the sectoral scope from UNFCCC. The accreditation scope can be checked from the below link: <http://cdm.unfccc.int/DOE/list/DOE.html?entityCode=E-0069>. The validation/verification body was validated under the VCS program more than five project which has been mentioned below

Sl.NO	Project ID	Project name
01	VCS 1885	Ejuva One and Ejuva Two Solar Projects
02	VCS 3151	Clean Cooking Access for Women in Rural Maharashtra
03	VCS 2434	Off grid Solar PV project at IAMGOLD Essakane SA Gold Mine
04	VCS 3182	Eastern DRC Cookstove Project - Tanganyika
05	VCS 1734	Large scale grid connected solar PV Project in Toujounine (Nouakchott)

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3 VALIDATION FINDINGS

3.1 Methodology Deviations

No deviation is applied during the monitoring period or previous monitoring period.

3.2 Project Description Deviations

No deviation is applied during the monitoring period or previous monitoring period.

3.3 New Project Activity Instances in Grouped Projects

The project is not a grouped project. Therefore, this section is not applicable.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes ☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

The main purpose of this project activity is to generate clean form of electricity through renewable wind energy source. Bothe Windfarm Development Pvt. Ltd. is the promoter of the proposed project activity. The Project activity envisages implementation of 40 WTGs of individual capacity 2 MW each, and 57 WTGs of individual capacity 2.1 MW each, in the state of Maharashtra. The technology employed is of Suzlon Energy Limited (2.1 MW) and Vestas (2 MW). The total project capacity is 199.7 MW.

Implementation status of the project activity has been verified during the physical on-site visit, supportive for COD and photos /16/.

Verification team has verified the capacity of the project activity by physical on-site visit, technical specification /09/, photographs /16/ and documents of each WTGs /24/ etc.

Generation licenses for Bothe Windfarm Development Pvt. Ltd have been received from Electricity Control Board /20/. The net electricity generated from this project is supplied to the grid. PPA is signed between PP and Bothe Windfarm Development Pvt. Ltd. /15/

The Project activity is a new facility (Greenfield) and it plans to utilize wind energy to generate electricity and supply it to distribution licensees which is a part of the NEWNE (Northern, Eastern, Western and North-Eastern) grid of India

The Project activity has generated 1,41,612.54 MWh of energy to the NEWNE Grid (now a part of unified Indian grid) of India during the current monitoring period. This result in emission reductions of 1,38,354 tCO₂e by its operation during the current monitoring period.

The project 199.70 MW Wind Project in Maharashtra by BWDPL' have started commercial operation on 17/05/2013 respectively as verified from commissioning certificates /10/.

During current monitoring period i.e. from 01-10-2022 To 16-05-2023, the project activity has supplied 1,41,612.54 MWh net electricity to the grid, there by resulted in emission reduction of 1,38,354 tCO₂e. The monitoring period subject to this monitoring report is inclusive of first and last day of period.

During the process of verification, 4KES confirmed the capacity, power generation, arrangement for evacuation of electricity generated, technical specifications, date of commissioning and necessary clearances for setting the project activity. List of documents reviewed during the course of verification is presented under Appendix I of this report.

The selected monitoring period i.e. 01-10-2022 To 16-05-2023 (both days included) is within the 1st crediting period i.e. 17/05/2013 to 16-05-2023 which is accepted to the verification team.

There was no major breakdown or shutdowns during the monitoring period which might affect the applicability of methodology or might cause material errors in emission reductions as confirmed from the interviews .

The assessment team confirmed that there is no proposed or actual change to the project design during this monitoring period. The project design as mentioned in the registered PD & monitoring report submitted is implemented and thus the same is acceptable to the assessment team. All required monitoring equipment's and procedures as mentioned in the registered PD & monitoring report are available and implemented in an appropriate manner.

The organisational role and responsibility as mentioned in the registered PD /05/ & monitoring report /1.2/ is followed onsite as confirmed from the interviews and organization structure /8/. All the emergency preparedness as mentioned in the registered PD & monitoring report is followed onsite and no discrepancies were found regarding the same.

The assessment team found that the project is in line with the registered PD, monitoring report, and no deviation on project design or monitoring plan is observed.

As per the registered PD /05/, ex-ante emission reductions for this monitoring period are 2,27,510.9 tCO₂e however actual emission reductions corresponding to this monitoring period are 1,38,354 tCO₂e. The actual emission reduction is lower than the estimated emission reduction and hence accepted to the verification team.

Section 1.2 of the VCS MR /1.2/ mention about the audit history. The registered VCS project is undergoing 5th periodic verification for the monitoring period. 01-10-2022 To 16-05-2023 (including both the days) under VCS 1st Crediting period i.e. 17/05/2013 to 16-05-2023 (including both the days). Verification team has checked the audit history table mentioned under section 1.2 of the VCS MR /1.2/ and found accurate.

Item	Evidence gathering activities, evidence checked, and assessment conclusion:
Audit history	Verification team has checked the audit history mentioned under section 1.2 of the MR /1.2/ and found that MR /1.2/ has been filled appropriately.
Double counting and participation under other GHG programs	The project is registered under VCS only. The verification team has confirmed that there is no double counting associated with the project activity, ensuring it is not part of any other GHG programs. A declaration regarding this has been submitted (reference /17/). Thus, emission reductions generated by project will be solely claimed by PP and PP has the right of use, which is acceptable.
No double claiming with emissions trading programs or binding emission limits	Net GHG emission reductions or removals generated by this project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions as the host country i.e. India is not a participant in any emission trading programs or nor does it have any binding limits. Also, the project has not sought or received another form of GHG-related environmental credits including renewable energy certificates.
No double claiming with other forms of environmental credit	Project activity has not sought, received, or is planning to receive credit from another GHG-related environmental credit system. The same is confirmed from the PP's representative interviews.
Supply chain (scope 3) emissions double claiming	Project proponent or authorized representative is not a buyer or seller of a product whose emissions footprint is changed by the project activities. The same is confirmed from the PP's representative interviews.
Sustainable development contributions	NA
Additional information relevant to the project	No commercially sensitive information has been excluded from the public version of the monitoring report.

Opinion:

Assessment team concludes the following:

There is no material discrepancies between project implementation and the project description provided in the PD /05/.

The monitoring plan is implemented completely and monitoring system (i.e., process and schedule for obtaining, recording, compiling and analysing the monitored data and parameters) is appropriate.

There is no material discrepancies between the actual monitoring system and the monitoring plan set out in the project description and the applied methodology.

The GHG emission reductions or removals generated by the project have not included in an emissions trading program or any other mechanism that includes GHG allowance trading.

The project has not received or sought any other form of environmental credit, or has become eligible to do so since validation or previous verification.

The project is registered under VCS only. Hence Verification team confirms that there is no double counting associated with project activity being participation of other GHG programs which is also verified from the declaration given by the PP /17/.

In view of the information's as verified above the assessment team is able to conclude that the project has been implemented as described in the project description.

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	Following stakeholders have been identified for this project activity by analysing the beneficiaries /people who are directly affected in daily life by the project activity, impact of local/regional/provincial/national government policies in implementation and operation of the project activity, other groups having social/political influences in the project location. 1. Local community 2. Local village administration 3. Technology suppliers 4. Local vendors During the physical on-site visit, the verification team interviewed stakeholders and employees, finding the information consistent with the Monitoring Report (MR) and acceptable. The list of interviews conducted is provided in Section 2.3 of this report.

Legal or customary tenure/access rights	During the on-site visit, interviews with local community members confirmed that they have access to the project site and can share any feedback or grievances regarding the project activity.
Stakeholder diversity and changes over time	During the on-site visit and interview with the stakeholder and PP, it was confirmed that the stakeholders identified for this project activity are diverse in terms of socio-economic status, age, and gender, and this 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 cuts down GHG emissions in the atmosphere generating electricity using wind energy technology; thus, it will bring environmental well-being in the locality During the physical on-site visit, the verification team were interviewed with the project participants (PP). The findings were consistent with the details provided in the Monitoring Report (MR).
Location of stakeholders	Villages of Satara district in the state of Maharashtra.
Location of resources	The Project Proponent owns 97 wind turbine locations, required site for pooling substation During the physical on-site visit, the verification team cross-checked relevant documents /15/17/16/18/20/21/and interviewed with the project participants (PP). The findings were consistent with the details provided in the Monitoring Report (MR).

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	The project participants (PP) engaged several local NGOs to conduct consultations with local stakeholders, employing various strategies to involve them in the project and address their complaints, grievances, and suggestions. A Stakeholder Consultation Report was prepared,

	focusing primarily on the socio-economic impact of the project and providing the local population with an opportunity to express their views and comments in accordance with the project's validation plan. The verification team confirmed this through attendance sheets and meeting evidence. Consequently, no additional stakeholder consultations were conducted during this monitoring period.
Date(s) of stakeholder consultation	N/A. Refer above justification.
Communication of monitored results	N/A. Refer above justification.
Consultation records	The Project proponent maintains grievance register at the site for recording all the grievance from local stakeholder. During the physical on-site visit, the verification team cross-checked relevant documents /27/and interviewed the project participants (PP). The findings were consistent with the details provided in the Monitoring Report (MR).
Stakeholder input	The PP has taken necessary actions to address the grievance received during the monitoring period. During the physical on-site visit, the assessment team cross-checked relevant documents /27/and interviewed the project participants (PP), the findings were consistent with the details provided in the Monitoring Report (MR).

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	Consent for implementing project activity was received from Safety and Electricity Board authorities During the physical on-site visit, the verification team cross-checked relevant documents /20/and interviewed the project participants (PP). The findings were consistent with the details provided in the Monitoring Report (MR).

Outcome of FPIC discussion	The project has not encroached on land, relocated people without consent, and forced physical or economic displacement. During the physical on-site visit, the verification team were interviewed the project participants (PP), stakeholders and Local people. Thus, the project has not found any encroached-on land, not relocated people without consent is happened, and not forced physical or economic displacement
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4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	PP has a mechanism for on-going communication with local stakeholders which has been discussed during the physical on-site visit. During the monitoring period (from 01 October 2022 to 16 May 2023), there are no comments received for the project activity which was confirmed during the interview of PP representative & Local stakeholders and grievance register /27/. During current monitoring period there are no grievances received related to the wind power plant. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate.
Grievance redress procedure	PP has a mechanism for on-going communication with local stakeholders which has been discussed during the physical site visit. During the monitoring period (from 01 October 2022 to 16 May 2023), there are no comments received for the project activity which was confirmed during the interview of PP representative & Local stakeholders and grievance register /27/. During current monitoring period there are no grievances received related to the wind power plant. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate.

4.2.5 Public Comments

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
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No comment received.	N/A	N/A
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4.2.6 Risks to Local Stakeholders and the Environment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Risks to stakeholder participation	PP has a mechanism for on-going communication with local stakeholders which has been discussed during the physical on-site visit. During the monitoring period (from 01 October 2022 to 16 May 2023), there are no comments received for the project activity which was confirmed during the interview of PP representative & Local stakeholders and grievance register /27/. During current monitoring period there are no grievances received related to the wind power plant. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate.
Working conditions	There is no risk of noise pollution, Flickering, event of a blade coming down in the related to working conditions the proper EHS policy is maintained in wind power plant. This is also verified by the physical on-site visit and interview with PP's representative/employees.
Safety of women and girls	There is no risk related to Safety of women and girls because there were no women employment is in place. This is also verified by physical on-site visit and interview with PP's representative/employees.
Safety of minority and marginalized groups, including children	The PP is following the local law/23/ properly which describes Safety of minority and marginalized groups, including children in the project area hence There were no risk related to Safety of minority and marginalized groups, including children has been identified. This is also verified by physical on-site visit and interview with PP's representative/employees.
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	The project does not involve major construction activity. It primarily requires the installation of the wind power plant, transmission line, electricity meter and transformers etc. However, in the project activity negligible pollution in the air, noise, and water due to implementation and operation of project. PP has taken necessary actions in handling end of the life equipment according to the national law. This is also verified by physical on-site visit with PP's representative/employees There was no harm identified from the proposed project activity. Hence verification team confirms that there are no significant impacts on air, water, soil quality and ambience due to the project activity.

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination and sexual harassment	Project is not involved in discrimination and sexual harassment as per the POSH workshop and gives awareness to employees regarding Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) (PoSH) Act, 2013/28/, as confirmed during the interviews with PP's representatives/employees.
Management experience	The project participants (PP) have demonstrated expertise in developing large wind farm projects and effectively engaging with communities, as confirmed during the on-site visit with the PP and employees.
Gender equity in labor and work	The project activity has no women employee in the project. There is no risk in gender equity and work as confirmed during the interviews with PP's representatives/employees and employment records /18/.
Human trafficking, forced labor, and child labor	Project does not use victims of human trafficking, forced labour and child labour as per the Immoral Traffic (Prevention) Act, 1956/29/. The same is confirmed during the interviews with PP's representatives/employees.

4.2.7.2 Human Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Human rights	The project activity does not violation of human rights according to Protection of Human Rights Act, 1993/30/. The same is confirmed during the interviews with PP's representatives/employees.

4.2.7.3 Indigenous Peoples and Cultural Heritage

Item	Evidence gathering activities, evidence checked, and assessment conclusion
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Preservation and protection of cultural heritage	No indigenous people are affected by the project. The same is confirmed during the interviews with PP's representatives/stakeholders.
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4.2.7.4 Property Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Disputes over rights to territories and resources	N/A
Respect for property rights	The property rights of the project activity are only held by Bothe Windfarm Development Private Limited (PP), so there is no any risk regarding property rights. The same is confirmed during the interviews with PP's representatives'/employees/18/.

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	Bothe Windfarm Development Private Limited (PP) is owner of the project activity hence there were no benefit sharing is applicable.
Benefit sharing during the monitoring period	Bothe Windfarm Development Private Limited (PP) is owner of the project activity hence there were no benefit sharing is applicable.

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	No risk identified.

Soil degradation and soil erosion	No risk identified.
Water consumption and stress	Water consumption will be of moderate level for regular operation of substation; therefore, no water stress is to be anticipated. The same is confirmed during the on-site visit interviewed with PP's representatives'/employees.
Usage of fertilizers	No risk identified.

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	Fatalities of birds and bats from collisions with wind turbines is a possible risk PP has taken preventive measures such as Curtailment, painting the turbine black to avoid bird collision with wind turbine. The same is confirmed during the physical on-site visit and interview with PP's representatives'/employees.

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.8.3 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	N/A

4.3 Accuracy of Reduction and Removal Calculations

The verification team was able to confirm that the monitoring plan contained in registered PD /05/ and MR /1.2/ is in accordance with the applied methodology for the project activity i.e. ACM0002. “Grid-connected electricity generation from renewable sources” Version 16.0” /06/ and its applicable tools.

The parameter stated in the monitoring plan /05/ and the applied methodology /06/ have been fulfilled in the current monitoring period.

The GHG emission reductions were correctly calculated on the basis of the applied methodology ACM0002 “Grid-connected electricity generation from renewable sources” Version 16.0” /06/, PD /05/ and the formulae given in the monitoring report /1.2/.

Parameter monitored:

Verification team confirms through by physical on-site visit and from the document review, the actual monitoring system complies with the monitoring plan mentioned in the registered PD /05/. According to the monitoring plan in the registered PD /05/, there is only one monitoring parameter required to be monitored.

1. EGPJ,y (MWh)

		VVB Assessment
Data / Parameter	EGPJ,y	The monitoring parameter, Unit and description are as per the registered PD /05/.
Data unit	MWh	
Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y	
Source of data	Monthly electricity share certificates Electricity meter(s)	The monitoring parameter is continuously measured using Tri-vector meters (both main and check), which capture the net electrical energy delivered by the SEB energy meter to the NEWNE grid at the substation. These meters, with an accuracy class of 0.2S, were verified during the on-site physical inspection. The verification process was supported by the single line diagram (/07/), technical specifications of the meters (/09/), and meter photographs (/16/). The data source is consistent with the registered Project Description (PD) (/05/).

Description of measurement methods and procedures to be applied	Electricity outputs electronically stored by the Technical/Engineering/Maintenance Department under the Plant Manager's authority	The monitoring parameter is continuously measured by Tri-vector meters (both main and check), which record the net electrical energy delivered by the SEB energy meter to the NEWNE grid at the substation. These meters have an accuracy class of 0.2S, as verified during the physical on-site visit. The verification was supported by the single line diagram (/07/), technical specifications of the meters (/09/), and meter photos (/16/). The data source is consistent with the registered Project Description (PD) (/05/). Monthly electricity export and import records (/11/) are documented, and the corresponding invoices issued to DISCOM (/12/) have been cross-checked, as confirmed during the physical on-site visit. The measurement methods and procedures are in accordance with the registered PD /05/. The monitoring procedure was verified during the physical on-site visit and found in accordance with the PD/05/.
Frequency of monitoring/recording	Continuous measurement and at least monthly recording	The electricity export/import is continuously measured and monthly recorded /11/ as verified during the physical on-site visit and from monthly meter reading reports /12/. The frequency of monitoring/recording is in accordance with the registered PD /05/.
Value monitored	1,41,612.54 MWh	Verification team has verified the reported electricity export/import data with the monthly meter reading reports /11/ and monthly invoices /12/ and found consistent.
Monitoring equipment	Monitoring: Tri vector meter would be used Data type: Measured Type of meter: Static type meter (Main & Check). Both are Bidirectional meters.	Verification team has checked the meter details during the physical on-site visit, from single line diagram /07/, technical specifications of meters /09/ and meter photos /16/ and found consistent with the details mentioned in the monitoring report /1.2/. The energy meters are in accordance with the registered PD /05/.

		During the monitoring period, no replacement of meter was observed.
QA/QC procedures to be applied	- The energy meter readings are taken on monthly basis - Energy meters would be calibrated annually and faulty meters would be duly replaced immediately. - All the energy meters are under the control of state utility and calibration/testing of energy meters is also under the jurisdiction of state utility. - The Net electricity exported to the grid would be cross checked against the invoice raised by the PP towards the DISCOM.	QA/QC procedure has been maintained. The energy meters were calibrated on 27/06/2022 by the Testing Division of Maharashtra State Electricity Distribution Co. Ltd. (Satara). The meters are calibrated annually, and any faulty meters are promptly replaced, all under the control of the state utility. As the calibration and testing of energy meters fall within the jurisdiction of the state utility, it is confirmed that an accredited institution is responsible for the calibration process. Verification team has also checked the meter accuracy check /14/ conducted by a third party in 2022 and found meter working OK. Further check energy meter has been installed for the cross-check purpose in case of any fault in the main meter which is accepted to the verification team. Monthly electricity export and import records (/11/) are documented, and the corresponding invoices issued to DISCOM (/12/) have been cross-checked, as confirmed during the physical on-site visit. During the physical on-site visit, the verification team cross-checked relevant documents /18/09/and interviewed the project participants (PP). The findings were consistent with the details provided in the Monitoring Report (MR). The calibration records of the main and check meters details have been provided in Appendix 1 of this report

Purpose of the data	This data has been used to calculate Baseline emissions	The purpose of the monitoring parameter is to calculate the baseline emission which is in accordance with the registered PD /05/.
Calculation method	-	-
Comments	The data would be archived electronically and maintained for the entire crediting period plus two years.	The verification team is confirmed during the interviews with PP's representatives'/employees.

Opinion: The verification team confirms;

- The monitoring plan has been implemented as per the PD /05/;
- The monitoring complies with the requirement of the applied methodology /06/;
- The information inflow (from data generation, aggregation, to recording, calculation and reporting) is included above under parameter and confirms to the requirement of the PD /05/;
- The values included in the monitoring report and corresponding emission reduction sheet are verified and included under monitoring parameter, wherever appropriate;

Parameters not monitored/ex-ante:

1. Data and Parameter

	Discussion and verification assessment
Data / Parameter	EFgrid,OM,y
Purpose of data	For the Calculation of baseline emissions
Verified value	0.9862 tCO ₂ /MWh
Description	Operating Margin CO ₂ emission factor in year y
Source of value	Calculated from CEA database, Version 10, December 2014 as per Registered PD /05/
Justification	Calculated as per "Tool to calculate the emission factor for an electricity system, version 04.0.0" as 3-year generation weighted average using data for the years 2011-2012, 2012-2013 & 2013- 2014. The data are obtained from "CO ₂ Baseline Database for Indian Power Sector" version 10.0.It is fixed for the entire crediting period as per the registered PD /05/. The value of the CO ₂

	emission factor has been correctly taken as per the registered PD /05/ and hence accepted by the verification team.
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	Discussion and verification assessment
Data / Parameter	EF grid,BM,y
Purpose of data	For the calculation of Baseline Emission
Verified value	0.9495 tCO ₂ /MWh
Description	Built Margin CO ₂ emission factor in year y
Source of value	Calculated from CEA database, Version 10, December 2014 as per the registered PD/05/
Justification	Calculated as per “Tool to calculate the emission factor for an electricity system, version 04.0.0” as 3-year generation weighted average using data for the years 2011-2012, 2012-2013 & 2013- 2014. The data are obtained from “CO ₂ Baseline Database for Indian Power Sector” version 10.0.It is fixed for the entire crediting period as per the registered PD /05/. The value of the CO ₂ emission factor has been correctly taken as per the registered PD /05/ and hence accepted by the verification team.

	Discussion and verification assessment
Data / Parameter	EFgrid,CM,y
Purpose of data	For the calculation of Baseline Emission
Verified value	0.9770 tCO ₂ /MWh
Description	Combined Margin CO ₂ emission factor in year y
Source of value	Calculated from CEA database, Version 10, December 2014 as per the registered PD/05/
Justification	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * WOM + EF_{grid, BM,y} * WBM$ $EF_{grid,BM,y}$ = Build margin CO₂ emission factor in year y (tCO₂/MWh) $EF_{grid,OM,y}$ = Operating margin CO₂ emission factor in year y (tCO₂/MWh) WOM = Weighting of operating margin emissions factor (%) = 75%

	WBM= Weighting of build margin emissions factor (%) = 25% It is fixed for the entire crediting period as per the registered PD /05/. The value of the CO₂ emission factor has been correctly taken as per the registered PD /05/ and hence accepted by the verification team.
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Opinion:

In the opinion of assessment team, ex-ante parameter value that were applied in the calculations is consistent with PD /05/ and correctly applied in MR /1.2/, emission reductions spreadsheet /2.2/ and justified.

Assessment of Data and Calculation of GHG emission reductions:

According to the approved methodology ACM0002. “Grid-connected electricity generation from renewable sources” Version 16.0 /06/, Emission Reductions are calculated as follows:

Baseline Emissions

Baseline emissions include only CO₂ emissions from electricity generation in 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:

$$BE_y = EG_{PJ,y} \times EF_{Grid,CM,y}$$

Where:

- BE_y = Baseline emissions in year y (t CO₂/yr)
- $EG_{PJ,y}$ = Quantity of net electricity that is produced and fed into the grid as a result of implementation of the CDM 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, ver. 02.2.1” (tCO₂/MWh)

As per the VCS PD, the baseline emissions factor (EF_{Grid,CM,y}) is 0.9770 tCO₂/MWh

The baseline emission calculation for the monitoring period is described in the table below:

Year	Net Generation (MWh)	Baseline emissions factor (tCO ₂ e/MWh)	(Baseline emissions (ER _y))
------	----------------------	--	---

01-October 2022 to 31-December 2022	63,759.97	0.9770	62,293.00
01-January 2023 to 16-May 2023	77,852.56	0.9770	76,061.00
Total	1,41,612.53	-	1,38,354.00

The baseline emission (BE_y) for the monitoring period is:

$$BE_y = 1,38,354 \text{ tCO}_2$$

Project Emissions

Project emissions are equal to 0 as the project is an installation of a most renewable power generation project which is in accordance to the registered PD /05/ and the applied methodology /06/. Therefore, project emissions are considered zero.

Leakage

Leakage emissions are not considered for the project activity which is in accordance to the registered PD /05/ and the applied methodology /06/.

Emission reductions

Reductions are calculated as follows:

$$ER_y = BE_y - PE_y - L$$

Where:

ER_y	=	Emission reductions in year y, t CO ₂ e
BE_y	=	Baseline emissions in year y, tCO ₂ e
PE_y	=	Project emissions in year y, tCO ₂ e
L	=	Leakage emissions in year y, tCO ₂ e

The results of the emission reduction are shown in the table below:

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)
(01-10-2022) to (31-12-2022)	62,293	0	0	62,293	0	62,293

(01-01-2023 to 16-05-2023)	76,061	0	0	76,061	0	76,061
Total	1,38,354	0	0	1,38,354	0	1,38,354

Opinion:

The verification team confirms that

- The complete data set for the identified and required parameter for the operational days in the current monitoring period was available;
- The reported data has been cross checked with available records, as indicated in the section 4.3 above under monitored data, wherever appropriate;
- The baseline, project and leakage emissions have been determined in accordance with the requirement of the applied methodology, as contained in the final monitoring report and corresponding emission reductions spreadsheet;
- The assumptions, emission factors and default values used are justified, as indicated in the section 4.3 above.

4.4 Quality of Evidence to Determine Reductions and Removals

All relevant documents were checked to assess the correctness and quality of data submitted by the project participants, which are used to determine emission reductions.

All records needed for monitoring are archived in line with the requirements of the registered monitoring plan /05/. No significant lack of evidence and missing data were detected during the physical on-site visit. Hence, the verification team confirms that the monitoring system ensures required quality of the monitoring system to ensure the quality of the monitored data. All internal data are subjected to QA/QC measures. The monitoring parameters have been measured / determined without material misstatements and is in line with all applicable standards and relevant requirements. The information inflow (from data generation, aggregation, to recording, calculation and reporting) is included in section 4.3 under monitoring parameter and confirms to the requirement of PD /05/.

It was also verified that the plant's team involved in the monitoring of project activity is well experienced. Hence, the verification team concludes that competent staff is employed by the project proponent to carry out the relevant tasks with sufficient accuracy. Furthermore, it was confirmed during remote interview/physical site visit that internal training program for the monitoring staff are conducted on regular basis.

Evidences (Documents/Interviews) referred for verification of individual monitoring parameter and fixed parameter are defined under section 4.3. We further confirm that, sufficient evidence covering the entire monitoring period and at the required frequency were available. A list of referred documents for verification is also included in Appendix 1 of this report. Verification team conclude that evidences used to determine the GHG reductions and removals are completely available for the monitoring period (sufficiency of quantity) and are appropriate in quality.

4.5 Non-Permanence Risk Analysis

Not applicable.

5 VERIFICATION OPINION

5.1 Verification Summary

4K Earth Science Pvt. Ltd. (4KES), contracted by 'Solaura Power Private Limited', has performed the independent verification of the emission reductions for the VCS project activity (VCS ID- 1447) "199.70 MW Wind Project in Maharashtra by BWDPL." for the monitoring period 01-10-2022 To 16-05-2023 as reported in the Monitoring Report Version 1.0 dated 25/04/2024. '199.70 MW Wind Project in Maharashtra by BWDPL' are responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity. It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity.

4KES commenced the verification on the basis of the baseline and monitoring methodology ACM0002. "Grid-connected electricity generation from renewable sources" Version 16.0 the monitoring plan contained in the registered PD /05/ and Monitoring Report (Version 1.0 dated 25/04/2024) as per the process described under Section 2 of this report.

4KES verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. 4KES planned and performed the verification by obtaining evidence and other information and explanations that 4KES considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions reported for the project activity for the period 01-10-2022 To 16-05-2023 are fairly stated in the Monitoring Report Version 2.0 dated 10/07/2024. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology AMS-I.D. "Grid connected renewable electricity

generation” Version 18.0 and the VCS standard v4.7/03/. Verification team confirm that verification of the GHG statement was conducted in accordance with ISO 14064-3: 2019.

5.2 Verification Conclusion

In our opinion the GHG emissions reductions reported for the project activity for the period 01-January-2023 to 31-December-2023 are fairly stated in the Monitoring Report Version 2.0 dated 10/07/2024. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology AMS-I.D. “Grid-connected electricity generation from renewable sources” Version 16.0 and the VCS standard v4.7 /03/. Verification team confirm that verification of the GHG statement was conducted in accordance with ISO 14064-3: 2019.

Verification period: 01-10-2022 To 16-05-2023

Verified GHG emission reductions and carbon dioxide removals in the above verification period:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU (tCO ₂ e)	Removal VCU (tCO ₂ e)	Total VCU (tCO ₂ e)
(01-10-2022) to (31-12-2022)	62,293	0	0	62,293	0	62,293
(01-01-2023 to 16-05-2023)	76,061	0	0	76,061	0	76,061
Total	1,38,354	0	0	1,38,354	0	1,38,354

Approved by

Chandrakala R

Managing Director

4K Earth Science Private Limited

Date: 21-09-2024

Place: Bangalore, India

5.3 Ex-ante vs Ex-post ERR Comparison

The comparison of the estimated ex-ante GHG emission reductions and removals and the achieved emission reductions and removals for this monitoring period are reported in the below table.

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
01-Jan-2022 to 31-Dec-2022	91,802.64	62,293	-32%	The actual emission reductions are lower than the estimated emission reductions for this monitoring period and hence accepted to the verification team.
(01-01-2023 to 16-05-2023)	1,35,708.3	76,061	-44%	
Total	2,27,510.9	1,38,354	-39%	

APPENDIX I: LIST OF DOCUMENTS

/1/	/1.1/ Monitoring Report, Version 1.0, dated 25/04/2024 (Initial Version) /1.2/ Monitoring Report, Version 2.0 dated 10/07/2024 (Final Version)
/2/	/2.1/ Draft Emission Reduction Calculation sheet (corresponding to initial Version of VCS MR) /2.2/ Final Emission Reduction Calculation Sheet (corresponding to final Version of VCS MR)
/3/	VCS Standard Version v4.7 https://verra.org/wp-content/uploads/2024/04/VCS-Standard-v4.7-FINAL-4.15.24.pdf
/4/	VCS Program Guide, v4.4 https://verra.org/project/vcs-program/rules-and-requirements/
/5/	Registered Project Description, version 02 and dated 16/05/2015 Web-Link for the Registered project activity: https://registry.verra.org/app/projectDetail/VCS/1447
/6/	Approved monitoring methodology: Methodology applied is ACM 0002 of version 16.0 (https://cdm.unfccc.int/methodologies/DB/EY2CL7RTEHRC9V6YQHLAR6MJ6VEU83)
/7/	Single line diagram showing monitoring points
/8/	Organization structure
/9/	Technical Specifications of major equipments: Energy meter, WTG and Transformer
/10/	Commercial operation dates of the wind power plant by Bothe Windfarm development private limited.
/11/	Monthly main meter and check meter readings records of each meter for the electricity exported/imported for this monitoring period
/12/	Monthly invoices for the electricity exported/imported for this monitoring period.
/13/	Companies' registration
/14/	In this monitoring period of Calibration certificate for the electricity meters dated 27/06/2022 Meter accuracy check by Maharashtra state electricity distribution com LTD.
/15/	Power Purchase Agreement signed between Bothe Windfarm development private limited and Maharashtra state electricity distribution company limited.
/16/	Name plate pictures for WTG, Inverter, transformer and meters
/17/	Declaration by PP for No double counting of Emission Reductions.

/18/	Supporting document for the sustainability criteria: List of employees
/19/	Grievances register photos
/20/	Generation licenses by Electricity Control Board,
/21/	Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP)
/22/	Environmental Clearance Certificate by Ministry of Environment, Forestry and Tourism. Renewal of Environmental Clearance Certificate by Ministry of Environment.
/23/	Local law of safety of minority and marginalized groups, including children (https://www.legalserviceindia.com/legal/article-346-laws-and-policies-for-protection-of-interest-of-children-a-critical-analysis.html)
/24/	Document for each WTG installed capacity of the project activity by Maharashtra state electricity distribution company LTD.
/25/	BWDPL Production interruptions.
/26/	Construction closeout report.
/27/	stakeholder consultations meeting attendaance sheets
/28/	Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) (PoSH) Act, 2013 (https://doe.gov.in/files/inline-documents/DoE_Prevention_sexual_harassment.pdf)
/29/	The Immoral Traffic (Prevention) Act, 1956 (https://www.indiacode.nic.in/bitstream/123456789/15378/1/the_immoral_traffic_%28prevention%29_act%2C_1956.pdf)
/30/	Human rights according to Protection of Human Rights Act, 1993 (https://nhrc.nic.in/sites/default/files/PHRAAct_2021_0.pdf)
/31/	Operation,repair and maintenance record

CALIBRATION DETAILS

Feeder No.	Meter Sr. No. (Main)	Meter Sr. No. (Check)	WTG ID	Meter Make	Accuracy Class	Date of Calibration	Due date of calibration
1	15687851	05269326	I-66, I-01, I-02, I-30, I-49, I-39, I-25, I-48, I-29, I-64, I-21, I-23, I-03, I-07	Elster	0.2S	27/06/2022	26/06/2023
2	15687861	15687859	I-13, I-46, I-53, I-61, I-19, I-31, I-28, I-69, I-38, I-51, I-79, I-80, I-83, I-78, I-17				26/06/2023
3	05269324	05269316	I-22, I-24, I-57, I-52, I-33, I-73, I-72, I-08, I-06, I-05				26/06/2023
4	05269327	15687848	I-34, I-81, I-59, I-71, I-47, I-60, I-41, I-56, I-63, I-04				26/06/2023
5	16351048	16351049	I-15, I-75, I-26, I-18, I-82, I-16, I-77, I-37, I-40, I-76, I-				26/06/2023

			35, I-42, I-43, I-45				
6	16351050	16351051	I-27, I-68, SP-19, SP-20, SP-24, SP-41, SP-22, SP-26, SP-28, SP-27, SP-21, SP-25, SP-29, SP-30, SP-31, SP-32				26/06/2023
7	16351052	16351053	SP-33, SP-34, SP-37, SP-39, SP-35, SP-36, SP-38, I-84				26/06/2023
8	16351054	16351055	SP-05, SP-06, SP-07, SP-08, SP-10, SP-40, SP-09, SP-12, SP-13, SP-17				26/06/2023

APPENDIX II: VERIFICATION FINDINGS

Table 1. Remaining FAR from validation and/or previous verifications

This is the 5th periodic verification of the project activity. No FAR was raised during previous verification (4th periodic Verification).

FAR ID	XX	Section no.	Date: DD/MM/YYYY
Description of FAR			
Project participant response			Date: DD/MM/YYYY

Documentation provided by project participant	
DOE assessment	Date: DD/MM/YYYY

Table 2. CL from this verification

CL ID	01	Section no.	-	Date : 20-06-2024
Description of CL				
1. Please submit the following documents: - Calibration certificates of all meters for the monitoring period. - Commissioning certificates - Power purchase agreement - Joint meter readings (Form -B) for the monitoring period. - Repairs and maintenance records - Plant shut down details - Electricity generation details and Energy invoices All mandatory clearances for the project activity				
Project participant response				Date : 18/06/2024
The documents are submitted as required.				
Documentation provided by Project participant				
The above stated documents have been provided				
DOE assessment				Date: 05/07/2024
1. Kindly provide the commissioning certificates for I-59, I-71, I-72, SP-19, SP-20, SP-27, SP-29, SP-30, SP-31, SP-32, SP-33, SP-34, SP-35, SP-36, SP-37, SP-38, SP-39, SP-41, SP-24, I-84, SP-25 of the wind turbine generators. 2. Kindly provide the Power purchase agreement for I-25, I-48, I-29, I-64, I-21, I-23, I-07, I-78, I-17, I-22, I-24, I-57, I-52, I-05, I-34, I-81, I-56, I-04, I-18, I-82, I-16, I-27, I-68, SP-22, SP-26, SP-28, SP-27, SP-21, SP-25, SP-33, SP-35, SP-36, SP-38, I-84 of the power unit wind turbine generators				
Project participant response				Date : 10/07/2024

1. The commissioning certificates for all WTGs provided. 2. The Power purchase agreement provided. Documentation provided by Project participant 1. The commissioning certificates for all WTGs. 2. The Power purchase agreements.	
Documentation provided by Project participant	
The above stated documents have been provided	
DOE assessment	Date: 01-08-2024
The above document had been checked and verified. Thus, the data and information are consistence with MR. Hence the CL 01 is closed successfully.	

CL ID	02	Section no.	1	Date : 20-06-2024
Description of CL				
1. in section 1.1 kindly include the validation date and year in the table. 2. in section 1.7 kindly revise the check box properly.				
Project participant response				Date : 18/06/2024
1.The Validation date and year is 16 May 2015 respectively as per the validation report is included in Section 1.1 of the PSF. 2. The check box is revised as required in section 1.7.				
Documentation provided by Project participant				
DOE assessment				Date: 05/07/2024

1 In Section 1.2, the project's activity start date shall be the validation date and also include no of years. kindly correct it accordingly. 2. In section 1.7, kindly include the check box as per the VCS monitoring report template Correction required Hence CL02 is open	
Project participant response	Date : 10/07/2024
1.The project activity start date is 17/05/2013 hence 2013 is taken as validation date & year and included in the table as required. 2. The check box is included as per the VCS monitoring report template.	
Documentation provided by Project participant	
PP has been corrected and updated the documents	
DOE assessment	Date: 01/08/2024
The revised MR has been verified by assessment team, hence CL 02 Closed	

CL ID	03	Section no.	4.3	Date : 20-06-2024
Description of CL				
1. PO is to clarify, during the current monitoring period if any failure or malfunctions or any other breakdown happened has to be explained in the MR transparently.				
Project participant response				Date : 18/06/2024
Gear box of WTG No I42 failed on 14 th March 2023, and replaced on 23 th March 2023.The details is given in the Appendix 2 of MR.				
Documentation provided by Project participant				
1.Failure or Malfunction record.				

DOE assessment	Date:
Records has been verified CL 03 Closed	

CL ID	04	Section no.	1.12	Date : 20-06-2024
Description of CL				
In section 1.12, PP kindly clarify whether in this project of activity claiming any SDG				
Project participant response				Date : 10/07/2024
There is no requirement of monitoring of sustainability development parameters neither according to the monitoring plan of the registered PD or host country regulation, therefore PP has considered not to claim any SDG. Thus, content of Table 1 of Sustainable Development Contributions is left blank in the MR.				
Documentation provided by Project participant				
Updated in MR				
DOE assessment				Date: 01/08/2024
The revised MR has been verified by assessment team, hence CL 04 Closed				

CL ID	05	Section no.	-	Date : 04-07-2024
Description of CL				
Throughout the MR, kindly include the page number on each page based on the content of each section.				
Project participant response				Date : 10/07/2024
The page number on each page based on the content of each section is included in MR.				
Documentation provided by Project participant				

Updated in MR	
DOE assessment	Date: 01/08/2024
The revised MR has been verified by assessment team, hence CL 04 Closed	

Table 3. CAR from this verification

CAR	01	Section no.	1.8	Date : 20-06-2024
Description of CAR				
1. In the section 1.8 of the MR, kindly include satellite map view of the project activity. 2. In the section 1.8 of the MR, kindly include the proper geo coordinates with latitude longitude symbols.				
Project participant response				Date : 18/06/2024
1.Due to large number of WTGs (97) in project activity, the map view is not included in section 1.8 but submitted as a separate file. 2.The geo coordinates with latitude longitude symbols is included in section 1.8.				
Documentation provided by Project participant				
1.Map view file of 97 WTGs.				
DOE assessment				Date: 01/08/2024
The above correction has been checked and verified. Thus, the CAR 01 is closed				

CAR	02	Section no.	4.1	Date : 20-06-2024
Description of CAR				
In the MR section 4.1, the foot note link provided for data and parameter is found to be inconsistent, kindly review and revise the same.				
Project participant response				Date : 18/06/2024

The foot link for data and parameter is made consistent as required.	
Documentation provided by Project participant	
DOE assessment	Date: 01/08/2024
The above correction has been implemented and verified. Thus, the CAR 02 is closed	

CAR	03	Section no.	4.3	Date : 20-06-2024
Description of CAR				
1. In the section 4.3 of the MR, PO is to clarify the WTGs of the project activity are single owner or multiple owners, here is there any other entity owned or involved during this monitoring period. kindly clarify. 2. In the section 4.3 of the MR. If any internal audit is happened in the current monitoring period kindly provide the process of the audit in the MR as per the VCS requirement. 3. In the section of the MR, the given line diagram is not visible, kindly provide the pdf or else attach clear diagram.				
Project participant response				Date : 18/06/2024
1. All 97 WTGs are owned by Bothe Windfarm Development Limited, and no other entity owned or involved during this monitoring period. 2. Site in charge & Head office will resolve if case of any issue found after internal audit and after resolution it will be further reviewed by higher management. 3. The Line diagram is provided as separate file for your consideration.				
Documentation provided by Project participant				
2.Sample Internal audit of WTG submitted. 3.The SLD is submitted as requested.				
DOE assessment				Date: 01/08/2024
The above correction has been implemented and verified. Thus, the CAR 03 is closed				

CAR	04	Section no.	5.1	Date : 20-06-2024
Description of CAR				
1. In the section 5.1 of the MR, stated that the net generation value from 01-January 2023 to 16-May 2023 is 89,955.72. The ER value obtained for the same net generation is found to be wrong Kindly rectify the ER value throughout the MR and ER sheet.				
Project participant response				Date : 18/06/2024
1. The Net generation during from 01-January 2023 to 16-May 2023 is 77,852.56 MWh and ER value for the same net generation is 76,061 tCO₂ and made consistent in MR and ER sheet.				
Documentation provided by Project participant				
<i>Updated in monitoring report</i>				
DOE assessment				Date:
The above correction has been implemented and verified. Thus, the CAR 04 is closed				

CAR	05	Section no.	5.4	Date : 20-06-2024
Description of CAR				
1. In the section 5.4 of the MR in appendix 1 calibration details, feeder no 4 is missing and the given feeder tabular collum is not coinciding with the table in section 1.8. kindly rectify. 2. In the appendix 1 calibration details, specify the due date of the calibration 3. correct the accuracy class standard, it is inconsistent with above table data and parameters monitored.				
Project participant response				Date : 18/06/2024
1. Feeder no 4 is included as required. 2. The due date for calibration is included in appendix 1. 3. The accuracy class standard is made consistent.				
Documentation provided by Project participant				
<i>Updated in MR</i>				
DOE assessment				Date: 01/08/2024
The above correction has been implemented and verified. Thus, the CAR 05 is closed				

CAR	06	Section no.	2.2	Date : 3-07-2024
Description of CAR				
In the MR kindly include a reference footnote link for the law wherever mentioned concerning mitigation or preventative measures.				
Project participant response				Date : 10/07/2024
The footnote link for the law wherever mentioned concerning mitigation or preventative measures is included in MR.				
Documentation provided by Project participant				
<i>Updated in MR</i>				
DOE assessment				Date: 01/08/2024
The above correction has been checked and verified. Thus, the CAR 06 is closed				

CAR	07	Section no.	3.1	Date : 3-07-2024
Description of CAR				
In MR Section 3.1, the key technical specifications of the wind turbine generator are found to be inconsistent. Please include the specifications from the WIND manual's Technical Documentation for the Vestas and Suzlon wind turbine generators (WTG) for reference.				
Project participant response				Date : 10/07/2024
The key technical specifications of the wind turbine generator are in accordance with Technical Data sheet for the Vestas and Suzlon wind turbine generator.				
Documentation provided by Project participant				
Technical Data sheet for the Vestas and Suzlon wind turbine generator.				
DOE assessment				Date: 01/08/2024
The above correction has been checked and verified. Thus, the CAR 07 is closed				

CAR	08	Section no.	1.8	Date : 04-07-2024
Description of CAR				

In MR Section 1.8, the wind turbine generator ID is not matching with the respective feeder number in the commissioning certificate. Kindly rectify according to the commissioning certificate.	
Project participant response	Date : 10/07/2024
In MR Section 1.8, the wind turbine generator ID is included correctly with the respective feeder number according to the commissioning certificate.	
Documentation provided by Project participant	
<i>Updated in MR</i>	
DOE assessment	Date: 01/08/204
The above correction has been checked and verified. Thus, the CAR 07 is closed	

Table 4. FAR from this verification

No FAR raised during this verification.

FAR ID	xx	Section no.	Date: DD/MM/YYYY
Description of CAR			
NA			
Project participant response			Date: DD/MM/YYYY
Documentation provided by project participant			
DOE assessment			Date: DD/MM/YYYY

APPENDIX III: TEAM COMPETENCE

<u>Certificate of Competence</u>							
Name	☒ Mr. ☐ Ms.	Ma Paa Puratchikkanal					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver
Appointed	Yes	Yes	No	Yes	Yes	Yes	Yes
Appointed Date	15-07-2023						
Authorized to work as Technical Expert for:							
Authorized Technical Area	Sectoral Scope		TA Code		Technical Area within the scope		
	Energy industries (renewable - / non-renewable sources)		1.1		Thermal energy generation		
	Energy industries (renewable - / non-renewable sources)		1.2		Renewables		
	Energy demand		3.1		Energy demand		
	Construction		6.1		Construction		
	Waste handling and disposal		13.1		Solid waste and wastewater		
	Waste handling and disposal		13.2		Manure		
Agriculture		15.1		Agriculture			
Authorized to work as Local Expert for:							
Country/Countries	India and Sri Lanka						
Compliance check by:				Anand S. R.			

<u>Certificate of Competence</u>							
Name	☒ Mr. ☐ Ms.	Gurubalaji K					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver
Appointed	Yes	No	No	No	No	No	No
Appointed Date	15-01-2024						
Authorized to work as Technical Expert for:							
Authorized Technical Area	Sectoral Scope		TA Code		Technical Area within the scope		
	-		-		-		

Authorized to work as Local Expert for:	
Country/Countries	-
Compliance check by:	
Anand S R	

<u>Certificate of Competence</u>							
Name	☒ Mr. ☐ Ms.	Ragul B R					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver
Appointed	No	No	Yes	Yes	No	No	No
Appointed Date	05-12-2023						
Authorized to work as Technical Expert for:							
Authorized	Sectoral Scope		TA Code		Technical Area within the scope		
Technical Area	Transportation		7.1		Transport		
Authorized to work as Local Expert for:							
Country/Countries	-						
Compliance check by:							
Anand S R							

<u>Certificate of Competence</u>							
Name	☒ Mr. ☐ Ms.	Stalin S					
Qualification Procedure	Fulfils the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GCC/GHG Projects.						
Appointed to work as:							
	Validator/ Verifier	Team Leader	Trainee	Technical Expert	Technical Reviewer	Financial Expert	Approver
Appointed	Yes	Yes	No	Yes	Yes	Yes	Yes
Appointed Date	15-07-2023						
Authorized to work as Technical Expert for:							
Authorized	Sectoral Scope		TA Code		Technical Area within the scope		
Technical Area	Energy industries (renewable - / non-renewable sources)		1.1		Thermal energy generation		
	Energy industries (renewable - / non-renewable sources)		1.2		Renewables		
	Energy distribution		2.1		Energy distribution		

	Energy demand	3.1	Energy demand
	Waste handling and disposal	13.1	Solid waste and wastewater
	Waste handling and disposal	13.2	Manure
<i>Authorized to work as Local Expert for:</i>			
<i>Country/Countries</i>	India		
<u>Compliance check by:</u>		Anand S. R.	

APPENDIX IV: ABBREVIATIONS

CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification Request
EB	Executive Board
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse Gases
IPCC	Intergovernmental Panel for Climate Change
MP	Monitoring Period
MR	Monitoring Report
MW	Mega Watt
MWh	Mega Watt hour
O&M	Operation & Maintenance
PD	Project Description
PP	Project proponent
PPA	Power Purchase Agreement
QA/QC	Quality Assurance/Quality Control
tCO ₂	Tonnes of Carbon Dioxide
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Verified Carbon Standard
VCSA	Verified Carbon Standard Association
VCU	Verified Carbon Unit