



WIND BASED POWER GENERATION BY MYTRAH ENERGY (INDIA) LIMITED (EKIESL-VCS-JANUARY-16-01)



Document Prepared by
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¹ [Verra Search Page](#)

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Client	JSW Neo Energy Limited
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Summary:

LGA Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “JSW Neo Energy Limited” to perform the 9th verification of the “Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-01)” (VCS ID 1521). The main purpose of this verification activity is to have an independent third party for the assessment of the project design, monitoring report to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements.

The purpose of the project activities to generate energy electricity by the utilization of wind energy and further selling the generated energy to the Indian grid and Vagrai site is integrated into Indian grid and used for captive consumption wheeling via Indian Grid. In this process there is no consumption of any fossil fuel and hence it does not lead to any greenhouse gas emissions. Thus, electricity would be generated through sustainable means without causing any negative impact on the environment.

Start date of the project activity is the 21-February-2014 (As per earliest date of commissioning of first WTG was commissioned under the Project activity)^{01/}. The monitoring period for this VCS verification is 01-July-2023 to 20-February-2024 (including both days) and the project activity achieved 214,952 tCO_{2e} emission reductions during this monitoring period thereon displaced 218,962.65 MWh 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 objective of this verification activity is to have an independent third-party assessment of the monitoring report and Emission Reductions calculation to ensure a thorough assessment of the project activity implementation against the applicable VCS requirements. In particular:

- the project's baseline is assessed against “ACM0002. - Version 16.0”

- the project's monitoring plan is assessed against "ACM0002. - Version 16.0"
- CDM validation and verification standard for project activities, Version 03.0/^{16/}
- VCS program guide v.4.4/^{10/}
- VCS standard version v.4.7/^{10/}

The scope of the verification is the independent and objective review of the Monitoring Report (MR)^{/6/}. The MR^{/6/} is reviewed against the rules and requirements for verification of projects under the VCS Program/^{10/} and decisions by the CDM Executive Board. The verification was based on the guidance given in the CDM validation and verification standard for project activities, version 03.0, review against registered VCS PD/^{4/} and final VCS validation report, VCS program guide v.4.4/^{10/} and VCS standard v.4.7/^{10/}.

A risk-based approach has been followed to perform this verification activity. In the course of verification, 03 Corrective Action request (CARs) and 03 Clarification Requests (CLs) were raised during the verification. No FAR was raised during this verification. The review of the Monitoring report, Emission Reduction Calculation and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and Project Proponent have provided LGAI Technological Center S.A. (Applus+ Certification) (hereafter may be referred to as the VVB) with sufficient evidence to verify the fulfilment of the stated criteria of VCS.

The assessment team has employed a risk-based approach to assess the completeness and accuracy of the claims and conservativeness of the assumptions in the MR/^{6/}. The main focus of the assessment team is to identify the significant risks for the project implementation and the generation of VCU. The verification is not meant to provide any consulting towards the project Proponent. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring report.

The only purpose of the verification is its usage during the issuance process as part of the VCS project cycle. Therefore, LGAI Technological Center S.A. (Applus+ Certification) can't be held liable by any party for decisions made or not made based on the verification opinion, which will go beyond that purpose.

The verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of VCS. No sampling procedure applied for document verifications. Verification is based on the information made available to VVB. VVB's team did not identify any restriction or uncertainties related to verification of the project activity. The entire verification documents checked conducted to arrive at positive verification conclusions.

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1 INTRODUCTION

1.1 Objective

LGA Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification or VVB) has been appointed by “JSW Neo Energy Limited ” to perform verification of the “Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-.” under VCS guide V4.4 and VCS standard version 4.7. The objective of this verification activity is to have an independent third party for the assessment of the project design, Monitoring Report and Final Verification report and to ensure a thorough assessment of the proposed project activity against the applicable CDM and VCS requirements. In particular;

- the project's baseline is assessed against “ACM0002 – Version 16.0” /^{17/}
- the project’s monitoring plan is assessed against “ACM0002 – Version 16.0” /^{17/}
- CDM validation and verification standard for project activities, Version 03.0/^{16/}
- VCS Program Guide v.4.4/^{10/}
- VCS Standard Version v.4.7/^{10/}
- VCS Program Definitions v4.5 /^{10/}
- VCS Registration & Issuance Process v4.5 /^{10/}
- VCS Validation and Verification Manual v3.2 /^{10/}

LGA Technological Center, S.A. (Applus+ Certification) as the Validation/Verification Body (VVB) for the project activity is accredited as a VVB by UNFCCC and also meets the competence requirements as set out in the normative reference ISO 14065:2020.

Verification is a requirement for all VCS projects and is seen as necessary through the provision of objective evidence, provide assurance to stakeholders for the quality of the project and requirements for a specific intended future use or application have been fulfilled regarding its intended GHG claims (i.e. generation of verified & certified units (VCUs)).

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report /^{6/}prepared as per the registered PD/^{4/}and registered approved methodology ACM0002 – Version 16.0. The MR is reviewed against the criteria (See Section 1.1 above) including the approved applied methodology ACM0002, Version 16.0/^{17/}. The verification has been conducted in accordance with the VCS Standard version

4.7/^{10/}, other valid and applicable VCS Regulatory Documents, template and ISO requirements (ISO 14064-3:2019 and ISO 14065:2020) (see Appendix 2 of this verification report below).

The verification is not meant to provide any consulting towards the project proponent. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the Monitoring report. In line with Guidelines for Application of materiality in verifications (Version 02.0), the verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction calculation spread sheet. It follows the paper trail back to the raw data such as meter reading records and invoices. There are no material errors, overestimation of Emission Reductions, omission or misstatement. Verification team conducted on-site inspection to verify metering/monitoring arrangement based on the required of VCS Standard/^{10/}, Version 4.7. The verification team has reviewed all the documents like commissioning certificates/^{1/}, technical specification/^{3/}, Monthly statement- JMRs /^{11/}, grievance register/^{15/}.

1.3 Level of Assurance

Applus+ Certification has planned and performed the verification by obtaining evidence and other information and explanations that assessment team considers necessary to give reasonable assurance that reported calculated GHG emission reductions are fairly stated. All documentary evidences were checked, Verification team conducted on-site inspection to verify metering/monitoring arrangement. The verification team has reviewed all the documents like commissioning certificates/^{1/}, technical specification/^{3/}, JMRs/^{11/}, grievance register/^{15/} to arrive at a verification conclusion by the assessment team.

The level of assurance of the verification report falls under reasonable assurance engagements. Reasonable assurance is a high level of assurance regarding material misstatements, but not an absolute one.

Reasonable assurance includes the understanding that there is a likelihood that material misstatements will not be prevented or detected on a timely basis. To achieve reasonable assurance, the auditor needs to obtain sufficient appropriate audit evidence to reduce audit risk to an acceptably low level. This means that there is some uncertainty arising from the use of sampling, since it is possible that a material misstatement will be missed.

Through an exhaustive process of documentary review, interviews with the project proponents, on-site inspection, assessment on GHG Emission Reductions calculations against applicable methodology and any other regulatory document and reporting of objective evidence, the VVB is able to reach a reasonable level of assurance on the conduction of the verification process. The achieved level of assurance for this verification is thus a reasonable level of assurance as per the requirements set out in the applied VCS Standard version 4.7 clause 4.1.10 (1) /^{10/}.

VVB applied a materiality threshold of 5% with respect to omission or misstatements concerning reported quantities as per VCS Standard version 4.7, clause 4.1.10 (4) /^{10/}.

Additionally, according to the VCS Validation and Verification Manual version 3.2 ^{/10/}, while all material errors, omissions and misrepresentations must be addressed for a project to receive a positive validation or verification opinion, when non-material errors have been found in the project documents, VVB requested the project proponent to correct them and ensured that such errors have been addressed where applicable. The evidence used to achieve a reasonable level of assurance is specified in section 2.3 and 2.4 of this report. Materiality for the project is 5% which is in accordance with para 4.1.10(4) of VCS Standard v4.7, however the assessment team has verified 100% data (no sampling plan is applied), hence it is sufficient to meet the materiality requirements of the project.

In our opinion, the calculated GHG emissions reductions were calculated correctly on the basis of the approved baseline and monitoring methodology “ACM0002, Version 16.0”^{/17/} and the VCS standard v.4.7 (paragraph 4.1.10) ^{/10/}.

1.4 Summary Description of the Project

The project activity is a wind-based power generation project. The project activity involves installation of 233.1 MW wind project in in different states of India. The Project activity consists of Project activity consists of total 223 Wind Turbine Generators (WTGs) at below mentioned location:

Number of WTGs	Individual Capacity	State of India	Implementor
112 no's	0.85 MW	Karnataka	Mytrah Vayu Krishna Private Limited
67 no's	1.5 MW	Tamil Nadu	Mytrah Vayu (Manjira) Private Limited
44 no's	0.85 MW	Andhra Pradesh	Mytrah Vayu Krishna Private Limited

Above mentioned companies are subsidiary of Mytrah Energy (India) Limited. The commissioning details of the project are mentioned in the table below:

For Tamil Nadu site: -

Vagarai Tamil Nadu - 100.5 MW (1.5 * 67)			
S No.	Machin ID	HTSC No.	Date of commissioning
1	K00-518	DRA001	01-June-2014
2	K00-1359	DRA003	01-June-2014
3	APY-241	DRA004	01-June-2014
4	APY-416	DRA005	01-June-2014
5	PAR-09	DRA006	01-June-2014
6	PON-534	DRA008	01-June-2014
7	PON-1043	DRA009	01-June-2014
8	NAL-119	DRA012	01-June-2014
9	NAL-81	DRA013	01-June-2014
10	NAL-57	DRA015	01-June-2014
11	MAN-210	DRA017	01-June-2014

12	MAN-898	DRA018	01-June-2014
13	MAN802	DRA021	01-June-2014
14	KON-556	DRA022	01-June-2014
15	KON-563	DRA023	01-June-2014
16	KON-590	DRA024	01-June-2014
17	KON-640	DRA025	01-June-2014
18	KON-658	DRA026	01-June-2014
19	KON-621	DRA027	01-June-2014
20	KON-501	DRA031	01-June-2014
21	ALA-1639	DRA043	23-June-2014
22	ALA-1946	DRA044	23-June-2014
23	NAL-434	DRA049	23-June-2014
24	KON-234	DRA054	14-July-2014
25	PAR-50	DRA007	01-June-2014
26	MAN-625	DRA032	01-June-2014
27	MAN-604	DRA033	01-June-2014
28	ALA-2301	DRA046	23-June-2014
29	ALA-1569	DRA047	23-June-2014
30	ALA-2352	DRA048	23-June-2014
31	KOO-1157	DRA002	01-June-2014
32	PON-1081	DRA010	01-June-2014
33	MAN-940	DRA019	01-June-2014
34	PON-1565	DRA037	23-June-2014
35	PON-1568	DRA038	23-June-2014
36	VEL-1936	DRA039	23-June-2014
37	ALA-1618	DRA042	23-June-2014
38	PON-908	DRA050	23-June-2014
39	PON-1203	DRA052	23-June-2014
40	MAN-963	DRA055	16-July-2014
41	PON-1021	DRA011	1-June-2014
42	KOL-652	DRA014	1-June-2014
43	PON-4	DRA016	1-June-2014
44	MAN-828	DRA020	1-June-2014
45	KON-618	DRA028	1-June-2014
46	KON-395	DRA029	1-June-2014
47	KON-451	DRA030	1-June-2014
48	APA-84	DRA034	1-June-2014
49	PUN-270	DRA035	1-June-2014
50	PUN-34	DRA036	04-June-2014
51	VEL-1702	DRA040	23-June-2014
52	KAL-093	DRA041	23-June-2014
53	ALA-2290	DRA045	23-June-2014
54	PON-775	DRA051	23-June-2014

55	ALA-2260	DRA053	23-June-2014
56	MET-164	DRA065	09-January-2015
57	NAL-445	DRA061	03-December-2014
58	K00-1036	DRA056	31-October-2014
59	VEL-1540	DRA060	03-December-2014
60	K00-1174	DRA058	31-October-2014
61	K00-1000	DRA057	31-October-2014
62	PON-1304	DRA059	31-October-2014
63	APY-247	DRA064	06-January-2015
64	KON-411	DRA067	26-February-2015
65	K00-581	DRA062	18-December-2014
66	VEL-2119	DRA063	24-December-2014
67	ALA-1385	DRA066	04-February-2015

For Karnataka Site: -

Savalsang Karnataka - 95.20 MW (0.85 * 112)		
S No.	Machin ID	Date of commissioning
1	SVG15	02-June-2014
2	SVG16	02-June-2014
3	SVG17	03-May-2014
4	SVG18	03-May-2014
5	SVG19	03-May-2014
6	SVG20	03-May-2014
7	SVG22	30-April-2014
8	SVG23	29-April-2014
9	SVG25	29-April-2014
10	SVG26	01-May-2014
11	SVG27	29-April-2014
12	SVG28	30-April-2014
13	SVG29	30-April-2014
14	SVG30	01-May-2014
15	SVG31	01-May-2014
16	SVG32	10-May-2014
17	SVG33	02-May-2014
18	SVG34	01-May-2014
19	SVG35	01-May-2014
20	SVG37	04-May-2014
21	SVG39	01-May-2014
22	SVG40	01-May-2014
23	SVG41	01-May-2014
24	SVG42	01-May-2014
25	SVG43	02-January-2015
26	SVG47	01-May-2014
27	SVG48	30-April-2014

28	SVG49	04-May-2014
29	SVG50	01-May-2014
30	SVG51	29-April-2014
31	SVG52	30-April-2014
32	SVG53	30-April-2014
33	SVG54	06-August-2014
34	SVG57	03-May-2014
35	SVG58	03-May-2014
36	SVG60	01-May-2014
37	SVG62	01-May-2014
38	SVG63	01-May-2014
39	SVG64	01-May-2014
40	SVG65	01-May-2014
41	SVG66	01-May-2014
42	SVG68	02-June-2014
43	SVG74	02-June-2014
44	SVG75	03-May-2014
45	SVG76	03-May-2014
46	SVG83	06-August-2014
47	SVG84	05-June-2014
48	SVG85	01-May-2014
49	SVG88	05-May-2014
50	SVG90	06-May-2014
51	SVG91	06-May-2014
52	SVG94	31-December-2014
53	SVG96	01-May-2014
54	SVG97	02-June-2014
55	SVG101	10-May-2014
56	SVG103	03-May-2014
57	SVG105	10-May-2014
58	SVG106	30-April-2014
59	SVG107	30-April-2014
60	SVG108	29-April-2014
61	SVG109	29-April-2014
62	SVG110	29-April-2014
63	SVG111	03-May-2014
64	SVG112	02-May-2014
65	SVG118	11-May-2014
66	SVG119	03-May-2014
67	SVG120	29-April-2014
68	SVG122	02-May-2014
69	SVG123	03-May-2014
70	SVG125	23-August-2014

71	SVG126	05-May-2014
72	SVG128	02-June-2014
73	SVG129	02-June-2014
74	SVG131	02-June-2014
75	SVG132	02-June-2014
76	SVG134	02-June-2014
77	SVG135	02-June-2014
78	SVG136	02-June-2014
79	SVG137	02-June-2014
80	SVG138	21-May-2014
81	SVG139	11-August-2014
82	SVG140	07-August-2014
83	SVG141	06-August-2014
84	SVG143	06-August-2014
85	SVG144	06-August-2014
86	SVG145	06-August-2014
87	SVG147	06-August-2014
88	SVG148	06-August-2014
89	SVG150	02-June-2014
90	SVG153	06-August-2014
91	SVG154	29-April-2014
92	SVG155	29-April-2014
93	SVG156	29-April-2014
94	SVG157	03-May-2014
95	SVG165	03-May-2014
96	SVG166	02-June-2014
97	SVG168	02-June-2014
98	SVG170	01-May-2014
99	SVG172	31-December-2014
100	SVG173	11-December-2014
101	SVG174	03-January-2015
102	SVG175	31-December-2014
103	SVG176	31-December-2014
104	SVG177	31-December-2014
105	SVG178	06-August-2014
106	SVG179	02-January-2015
107	SVG180	31-December-2014
108	SVG193	10-August-2014
109	SVG194	12-August-2014
110	SVG195	06-August-2014
111	SVG196	06-August-2014
112	SVG197	31-December-2014

For Andhra Pradesh Site: -

Burugula Andhra Pradesh – 37.40 MW (0.85*44)		
S No.	Machin ID	Date of commissioning
1	Location No. 508	21-February-2014
2	Location No. 509	21-February-2014
3	Location No. 510	21-February-2014
4	Location No. 511	21-February-2014
5	Location No. 512	21-February-2014
6	Location No. 513	21-February-2014
7	Location No. 514	21-February-2014
8	Location No. 515	21-February-2014
9	Location No. 516	21-February-2014
10	Location No. 517	21-February-2014
11	Location No. 518	21-February-2014
12	Location No. 519	21-February-2014
13	Location No. 520	21-February-2014
14	Location No. 521	21-February-2014
15	Location No. 522	21-February-2014
16	Location No. 523	21-February-2014
17	Location No. 524	21-February-2014
18	Location No. 525	21-February-2014
19	Location No. 526	21-February-2014
20	Location No. 527	21-February-2014
21	Location No. 528	21-February-2014
22	Location No. 529	21-February-2014
23	Location No. 530	21-February-2014
24	Location No. 531	21-February-2014
25	Location No. 550	21-February-2014
26	Location No. 551	21-February-2014
27	Location No. 532	15-March-2014
28	Location No. 533	15-March-2014
29	Location No. 534	15-March-2014
30	Location No. 535	15-March-2014
31	Location No. 536	15-March-2014
32	Location No. 537	15-March-2014
33	Location No. 538	15-March-2014
34	Location No. 539	15-March-2014
35	Location No. 540	15-March-2014
36	Location No. 541	15-March-2014
37	Location No. 542	15-March-2014
38	Location No. 543	15-March-2014
39	Location No. 544	15-March-2014
40	Location No. 545	15-March-2014
41	Location No. 546	15-March-2014

42	Location No. 547	15-March-2014
43	Location No. 548	15-March-2014
44	Location No. 549	15-March-2014

The location of the project activity

S No.	Project site	Address
1.	Vagrai	Manakadavu, Ponnivadi, Nallampalayam, Kongoor, Alampalayam, Vellaviputhur, Paruthiyur, Koothampoondi, Pungamuthur, Appiyampatti Taluka: - Dharapuram, Ottanchatiram, Dharapuram District: - Tirupur and Dindigul, Tamil Nadu, India
2.	Burgula	Village Burgula, District: - Kurnool, Andhra Pradesh, India
3.	Savalsung	Village: Savalsang, Kannuru, Kolurgi, Domnal, Inchageri, Mahaveeranagar, Jigagivani, Hadalasang. District: Bijapur, Karnataka, India

The geo-coordinates of each WTG

For Tamil Nadu

S No.	Machin ID	Feeder Nos.	Latitude (N)	Longitude (E)
1	K00-518	Feeder 9	10.69948341	77.6882558
2	K00-1359		10.66563968	77.65962324
3	APY-241	Feeder 5	10.65021639	77.64901256
4	APY-416		10.67020783	77.62907088
5	PAR-09		10.66760795	77.6115463
6	PON-534		10.68803933	77.59283778
7	PON-1043		10.68473981	77.60821209
8	NAL-119	Feeder 2	10.7208402	77.58716885
9	NAL-81	Feeder 5	10.72735208	77.58532376
10	NAL-57		10.72995488	77.57654703
11	MAN-210	Feeder 9	10.69502488	77.57087056
12	MAN-898		10.67605028	77.57193498
13	MAN802		10.67881165	77.55364153

14	KON-556	Feeder 4	10.6625153	77.55755231
15	KON-563		10.65892169	77.56165127
16	KON-590		10.65451458	77.55915715
17	KON-640		10.65735343	77.55342588
18	KON-658		10.65283678	77.54550489
19	KON-621		10.64871125	77.55058605
20	KON-501	Feeder 3	10.66499329	77.52838599
21	ALA-1639	Feeder 8	10.76318948	77.61626788
22	ALA-1946		10.76326328	77.62570771
23	NAL-434	Feeder 6	10.73760525	77.62759636
24	KON-234		10.64497336	77.52904287
25	PAR-50	Feeder 5	10.67281499	77.60039121
26	MAN-625	Feeder 3	10.67788177	77.53579195
27	MAN-604	Feeder 2	10.68348459	77.53683425
28	ALA-2301	Feeder 8	10.75886068	77.63132567
29	ALA-1569		10.75463624	77.6265833
30	ALA-2352		10.74110802	77.63007535
31	KOO-1157	Feeder 2	10.68178844	77.68985383
32	PON-1081		10.68348435	77.61787566
33	MAN-940	Feeder 9	10.66893415	77.56925334
34	PON-1565		10.69642995	77.65552456
35	PON-1568	Feeder 6	10.69303118	77.6535857
36	VEL-1936	Feeder 8	10.73813524	77.68816772
37	ALA-1618	Feeder 9	10.75944434	77.6049963
38	PON-908	Feeder 8	10.71374814	77.62914446
39	PON-1203	Feeder 6	10.69438029	77.63405677
40	MAN-963	Feeder 7	10.66329726	77.56688572

41	PON-1021	Feeder 6	10.68974267	77.61070314
42	KOL-652	Feeder 5	10.7374949	77.57384237
43	PON-4		10.71893637	77.58140577
44	MAN-828	Feeder 9	10.67012558	77.55507631
45	KON-618	Feeder 3	10.6446245	77.54867946
46	KON-395		10.64247133	77.52219864
47	KON-451	Feeder 2	10.65236689	77.52989861
48	APA-84	Feeder 3	10.64182591	77.56167279
49	PUN-270		10.60746419	77.54929363
50	PUN-34		10.63256556	77.56924986
51	VEL-1702	Feeder 9	10.75513671	77.69153445
52	KAL-093	Feeder 8	10.76334694	77.69804901
53	ALA-2290		10.76527764	77.63428714
54	PON-775	Feeder 6	10.71842551	77.61554436
55	ALA-2260		10.75628612	77.6376538
56	MET-164	Feeder 7	10.61592339	77.56684556
57	NAL-445		10.73391078	77.63495601
58	KOO-1036	Feeder 6	10.68513012	77.6699966
59	VEL-1540		10.75739179	77.66053403
60	KOO-1174	Feeder 7	10.67220444	77.68962334
61	KOO-1000		10.67217045	77.67146366
62	PON-1304		10.70991951	77.63314951
63	APY-247		10.65429232	77.65102078
64	KON-411		10.64434508	77.51504326
65	KOO-581		10.69196175	77.68144785
66	VEL-2119		10.72574112	77.64794111
67	ALA-1385		10.71111522	77.64877317

For Andhra Pradesh

S No.	Location No.	Feeder Nos.	Latitude (N)	Longitude (e)
1	508	Feeder 1	15.154461	77.922135
2	510		15.157268	77.921522
3	511		15.158979	77.923322
4	513		15.161872	77.923761
5	514		15.163549	77.923292
6	515		15.165388	77.922815
7	516		15.166574	77.921892
8	517		15.167997	77.920787
9	518		15.16929	77.919977
10	519		15.170968	77.918066
11	520		15.172449	77.918783
12	528	Feeder 2	15.185218	77.923655
13	529		15.186921	77.923976
14	530		15.189489	77.925118
15	531		15.190881	77.925026
16	532	Feeder 3	15.206692	77.937622
17	533		15.208101	77.938972
18	534		15.209818	77.940958
19	535		15.211871	77.942781
20	536		15.215178	77.947515
21	537		15.216917	77.949166
22	538		15.218416	77.950564
23	539		15.221591	77.953603
24	540		15.225099	77.957372
25	541		15.226569	77.958248
26	542		15.228387	77.959399

27	543		15.229998	77.960501
28	545		15.223820	77.956471
29	546	Feeder 3	15.213598	77.946804
30	547		15.204944	77.93730
31	551	Feeder 2	15.188055	77.924987
32	509	Feeder 1	15.155886	77.920862
33	512		15.160386	77.923416
34	521	Feeder 2	15.174326	77.91959
35	522		15.175897	77.92030
36	523		15.177475	77.921177
37	524		15.179081	77.921943
38	525		15.180875	77.922916
39	526		15.182457	77.923515
40	527		15.183845	77.923022
41	544	Feeder 3	15.231485	77.961368
42	548		15.202938	77.936743
43	549		15.201556	77.936035
44	550	Feeder 2	15.192441	77.927995

For Karnataka

S No.	Machine ID	Feeder Nos.	Latitude (N)	Longitude (E)
1	SVG15	Feeder 01	17.1604	75.717
2	SVG16		17.1588	75.7173
3	SVG17		17.1582	75.7219
4	SVG18		17.1568	75.7226
5	SVG19		17.1546	75.7241
6	SVG20		17.1531	75.7245
7	SVG22		17.151	75.7408

8	SVG23		17.1477	75.7429
9	SVG25		17.1441	75.7392
10	SVG26		17.1429	75.7406
11	SVG27		17.1406	75.7408
12	SVG28		17.1332	75.7316
13	SVG29		17.1316	75.7308
14	SVG30	Feeder 02	17.1507	75.7137
15	SVG31		17.1493	75.7122
16	SVG32		17.1475	75.7111
17	SVG33		17.146	75.7116
18	SVG34		17.1434	75.7105
19	SVG35		17.1421	75.7089
20	SVG37		17.139	75.713
21	SVG39		17.1448	75.715
22	SVG40		17.1432	75.7164
23	SVG41		17.1415	75.7166
24	SVG42		17.1395	75.7167
25	SVG43		17.1368	75.7175
26	SVG47		17.1304	75.7266
27	SVG48		17.1497	75.742
28	SVG49		17.1479	75.7089
29	SVG50		17.1233	75.734
30	SVG51		17.1217	75.7234
31	SVG52		17.12	75.7237
32	SVG53		17.1184	75.7267
33	SVG54		17.1395	75.7064
34	SVG57		17.1086	75.7305

35	SVG58		17.1066	75.7298
36	SVG60		17.1007	75.7422
37	SVG62		17.0982	75.7389
38	SVG63		17.0949	75.7388
39	SVG64		17.0968	75.7364
40	SVG65		17.1013	75.7321
41	SVG66		17.0997	75.7317
42	SVG68	Feeder 03	17.1176	75.6977
43	SVG74		17.1105	75.7321
44	SVG75		17.1099	75.7232
45	SVG76		17.108	75.7233
46	SVG83		17.1248	75.7104
47	SVG84		17.1231	75.7170
48	SVG85		17.1179	75.7158
49	SVG88		17.0999	75.7254
50	SVG90		17.1005	75.7082
51	SVG91		17.0986	75.7059
52	SVG94		17.0945	75.7117
53	SVG96	Feeder 04	17.0976	75.7314
54	SVG97		17.0918	75.7302
55	SVG101		17.1176	75.706
56	SVG103		17.0897	75.697
57	SVG105		17.1145	75.7027
58	SVG106		17.0986	75.6774
59	SVG107		17.097	75.678
60	SVG108		17.0953	75.6778
61	SVG109		17.0937	75.6776

62	SVG110		17.0921	75.6772
63	SVG111		17.0906	75.6761
64	SVG112		17.089	75.6753
65	SVG118		17.0872	75.6758
66	SVG119		17.0814	75.6768
67	SVG120		17.0798	75.678
68	SVG122		17.0903	75.6907
69	SVG123		17.0879	75.6967
70	SVG125		17.1163	75.7161
71	SVG126		17.0909	75.7251
72	SVG128		17.0795	75.6956
73	SVG129		17.0766	75.6981
74	SVG131	Feeder 05	17.0736	75.7047
75	SVG132		17.0716	75.7049
76	SVG134		17.081	75.7148
77	SVG135		17.0787	75.7162
78	SVG136		17.0755	75.717
79	SVG137		17.0737	75.7168
80	SVG138		17.0859	75.7285
81	SVG139		17.085	75.7305
82	SVG140		17.0814	75.7319
83	SVG141		17.0793	75.7336
84	SVG143		17.0744	75.7359
85	SVG144		17.0722	75.7368
86	SVG145		17.0701	75.7373
87	SVG147		17.0636	75.74
88	SVG148		17.0654	75.7397

89	SVG150		17.0827	75.7137
90	SVG153		17.0691	75.7396
91	SVG154		17.1383	75.7416
92	SVG155	Feeder 06	17.1144	75.7334
93	SVG156		17.1128	75.7333
94	SVG157		17.1044	75.7275
95	SVG165		17.0963	75.7114
96	SVG166		17.094	75.7293
97	SVG168		17.0753	75.692
98	SVG170		17.1415	75.7129
99	SVG172		17.0956	75.7194
100	SVG173		17.0681	75.7294
101	SVG174		17.0792	75.7598
102	SVG175		17.0763	75.76
103	SVG176		17.0777	75.7537
104	SVG177		17.0747	75.7526
105	SVG178		17.0669	75.7516
106	SVG179		17.0635	75.7549
107	SVG180		17.0616	75.7544
108	SVG193		17.0623	75.7469
109	SVG194		17.064	75.7469
110	SVG195		17.0707	75.762
111	SVG196		17.0725	75.7623
112	SVG197		17.1227	75.7171

The location of the project activity mentioned in the MR is checked during on-site inspection through the Google Maps, (<https://www.google.co.in/maps>) and found consistent with registered VCS PD^{/4/} and it is accepted.

It was noted that no alterations have been made to the project design during the reporting period. Technical specifications^{/3/} of the equipment's i.e. wind turbine generators (WTGs) involved in the project

activity as reported under section 3.1 of the MR/^{6/} are verified during on-site inspection and are found to be consistent with the same as mentioned in the registered PD/^{4/} and the MR for this verification period/^{4/}. The start date of the project activity is 10-February-2016, which is date of commissioning for the project activity, as verified through the commissioning documents/^{1/}.

During the current monitoring period, it was observed that few unforeseen incidents/events evolved that can impact the operation of the project activity, which was verified from breakdown records/^{13/}. The project undergone continuous operation and only scheduled maintenance is observed as per the manufacturer's specification as evident from generation. Please refer to the Appendix 6 of this report for more information about the plant breakdowns.

The organisational roles and responsibilities as mentioned in the registered PD/^{4/} are followed onsite. All the emergency preparedness as mentioned in the registered PD/^{4/} are followed onsite and no discrepancies were found regarding the same as confirmed during interviews with the PP representatives.

The project is registered under REC² other than the VCS³. The audit team has reviewed the claims and verified that the project activity is registered under the REC mechanism for a capacity of 45 MW (30 WTGs) and not under the I-REC mechanism, as confirmed through the Renewable Energy Certificate Registry of India ⁴ and I-REC databases. Furthermore, an extensive search across GHG program databases, including UNFCCC CDM/^{24/}, Gold Standard (GS)/^{25/}, International Carbon Registry (ICR)/^{25/} and the Global Carbon Council (GCC)/^{26/}, yielded no evidence of the project being registered under these mechanisms. The PP has provided a declaration confirming the absence of dual registration, and the allocation of REC and VCS claims has been appropriately segregated, ensuring no overlap.

The project activity is a wind power energy, a renewable energy generation and the electricity generated by the project activity is 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 current monitoring period is covered from 01-July-2023 to 20-February-2024 (inclusive of both dates) and the project activity is exported 218,962.65MWh of net electricity to Indian grid and achieved 214,952tCO_{2e} emission reductions.

² [Renewable Energy Certificate Registry of INDIA](#)

³ <https://registry.verra.org/app/projectDetail/VCS/1521>

⁴ [Renewable Energy Certificate Registry of INDIA - Accredited RE Generator List](#)

2 VERIFICATION PROCESS

The registered VCS project is undergoing 9th verification period, the approach adopted to ensure the quality of emission reductions is described in the following sections.

2.1 Method and Criteria

Verification Process: The project assessment is based on the “CDM validation and verification standard for project activities, Version 03.0”^{/16/}, “VCS program guide v.4.4 and VCS standard v.4.7”^{/10/} and is conducted using standard auditing techniques and pre-approved audit plan to assess the correctness of the information provided by the project proponent as per following verification schedule(during on-site inspection):

The Verification process has been conducted in accordance with the Applus+ Certification’s procedures and in line with the applicable regulatory documents, *inter alia*, the VCS Standard version 4.7^{/10/}, other valid and applicable VCS Regulatory Documents and templates^{/10/}, the UNFCCC CDM M&P and the latest version of the applicable UNFCCC CDM regulatory documents^{/17//24/} and relevant requirements (where applicable); applying, as a minimum, standard auditing techniques.

The Verification process has been also conducted following the regulatory documents and based on the ISO 14064-3:2019 and ISO 14065:2020 using standard auditing techniques as required by the VCS Standard v4.7.^{/10/}

The ICT means have been used to an extent sufficient to cover all the verification process and have demonstrated enough effectiveness to conduct the verification in accordance with the relevant applicable regulatory requirements.

This process has included: the review of data and information presented to verify their completeness; the review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements and the QA/QC procedures; an evaluation of data management; and an evaluation of the QA/QC system in place in the context of its influence on the generation and reporting of emission reductions.

No virtual sites have been included in the verification process according to the definition in the IAF MD4:2023 document^{/28/}. Instead, the documentation has been provided upon request from the VVB by other means (such as mail, transfer applications, etc.)

Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the VCS project activity are appointed in accordance with the Applus+ Certification’s procedures and policies, that are in accordance with the ISO 14065:2020 regulatory provisions.

Applus+ Certification has completed a strategic review and risk assessment of the project's activities and processes in order to gain a full understanding of:

- Activities associated with all the sources contributing to the project's emissions and emission reductions, including leakage if relevant;
- Protocols used to estimate or measure GHG emissions from these sources;
- Collection and handling of data;
- Controls on the collection and handling of data;
- Means of verifying reported data; and
- Compilation of the information in VCS monitoring report.

Based on the above, the VVB prepared a Verification Plan and applied an evidence-gathering plan designed to collect sufficient and appropriate evidence upon which to base the conclusion and to consider the inherent risk for the verification. The evidence-gathering plan is based on analytical procedures and tests and considers the thresholds for materiality as per the regulatory documents applied for this verification (5% as per the applied VCS Standard version 4.7)^{10/}.

The applied evidence-gathering plan is used by the VVB to determine the conformity of the statements made by the client against the principles and requirements of the applied regulatory documents during this verification.

Applus+ Certification has verified the implementation of the monitoring plan and the data presented in the Monitoring Report (MR) version 03, dated on 30-November-2024^{6/} for the monitoring period applicable to this verification process.

The process of verification involved the following relevant milestones:

- The signature of the contract for verification between the PP and the VVB^{2/};
- A kick-off meeting/communication to require the documentary material to perform an initial desk review;
- An initial desk review of the documentary evidence prepared by the Project Proponent;
- The issuance of findings coming from this initial desk review (if any);
- The conduction of an on-site inspection;
- The issuance of findings from the on-site inspection and communication of such deviations (if any) to the Project Proponent;
- The assessment of their resolution and closure, when appropriate;
- Once all the findings have been closed, the elaboration of this Verification Report, in which such findings (if any) are described;
- The conduction of an independent Technical Review;
- Upon conclusion of the Technical Review, the VVB may perform a final quality check before the issuance of the Final Verification Report (FVR) and signature of the corresponding Verification Deed.

Appointment of the assessment team

Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the VCS project activity are appointed in accordance

with the LGAI Technological Center S.A. (Applus+ Certification) procedures and policies, that are in accordance with the ISO 14065:2020 regulatory provisions.

According to the applicable sectoral scope / technical area and experience in the sectoral or national business environment, LGAI Technological Center S.A. (Applus+ Certification) has composed an assessment team in accordance to compliance with the contract review and Assessment Team appointment rules in the internal Quality Management System of LGAI Technological Center S.A. (Applus+ Certification) as well as in compliance with the applicable requirements in the Accreditation Standard.

The composition of audit team (Applus+ Certification's verification team) has been approved by the LGAI Technological Center S.A. (Applus+ Certification) Central site during its Contract Review process, ensuring that the required skills and capabilities are covered by the team.

The qualification levels for Assessment Team members that are assigned by aforementioned appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A).
- Technical Expert (TE).
- Technical Reviewer (TR).
- Other supporting roles such as Country Expert (CE) or Financial Expert (FE) when needed.
- Any of the above-mentioned roles in training (iT, e.g. AiT for Auditor in Training, TEiT for Technical Expert in Training, etc.).

The Sectoral Scopes / Technical Areas required knowledge linked to the applied methodology(ies) is covered by the Assessment Team as shown below:

Name	Role	SS/TA Coverage	Financial Aspect	Attendance to on-site visit ⁵
Mr. Ishan Shrivastava	LA/TE	YES (1.2)	N/A	N/A
Mr. Kumar Shubham	AiT/TEiT	NO	N/A	N/A
Ms. Karen Elizabeth Vega Nonalaya	TR/TE	YES (1.2)	N/A	N/A

The complete list of CVs is included as Appendix 4 of this report.

Document review

The Monitoring report (Version 01)^{6/} submitted by the PP was reviewed against the approved methodology, registered VCS PD^{4/}, final verification report^{4/} and other relevant criteria to verify the correctness, credibility, and interpretation of the presented information.

Furthermore, a cross-check between information provided and information from other sources has been done. A complete list of all documents and evidence material reviewed is included in this report below in Appendix 2.

Site visit

A site visit is conducted by LGAI Technological Center S.A. (Applus+ Certification) assessment team who performed interviews and on-site inspection with project's stakeholders to confirm selected information and to resolve issues identified in the document review. The details are provided in this report in the below sections Resolution of Clarification and Corrective Action Request.

Resolution of Clarification and Corrective Action Request

The objective of this phase of the Verification was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for Applus+ Certification positive conclusion on the Monitoring report. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the verification process, the concerns raised, and responses given are summarized below in the Appendix 3.

The final MR Version 03/⁶/ submitted by PP serves as the basis for the final assessment presented. Additional changes to the project during the verification process are not considered to be significant with respect to the main CDM/VCS objectives. The two CDM/VCS main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

Internal quality control

As final step of a verification, the final documentation including the verification report have to undergo an internal quality control by the technical review committee.

Details of the Technical Reviewer(s) are provided within the verification Report in Section 2.1 and Appendix 4 for further references of knowledge and capability to conduct the quality checking.

After the Technical Review process, the final documentation may undergo a final quality checking process called Administrative Review, done by the Applus+ Certification's Project Manager and/or Technical Support.

For final approval, the final set of documents are prepared by the VVB's Technical Manager or its deputy and signed by the authorized signatory of the VVB.

In case any of the persons performing this final internal quality-control and approval process has acted as a part of the Assessment Team or Technical Review team, the approval can only be given by VVB's personnel who are not part of those teams.

After confirmation of the PP, the positive verification opinion and relevant documents are submitted to the VCS board through the VCS web-platform by the PP.

2.2 Document Review

The details of the documents observed during the verification process which included following:

- Compliance of the Monitoring Report with the current version of the template and its required contents;
- Monitored parameters and reporting requirements;
- Assessment of data and calculation of emission reductions or net removals (Conservativeness, use of calculation methods and assumptions, emission factors, reliability/reproducibility);
- Assessment on the differences from the estimated value of ERs in the registered PD and the achieved ERs in the Monitoring Period;
- Remaining forward action requests from validation or previous verifications;
- Ongoing communication method with stakeholders;
- Sustainable development contributions.

The VCS Monitoring Report (MR) version 03 dated on 30-November-2024 ^{/6/} and the Emission Reductions (ER) Calculations^{/7/} were assessed as part of the verification. In addition, the registered Project Description version 02, dated on 10-February-2016 ^{/4/}, in particular, the baseline estimations and the monitoring plan, and the VCS Validation-Verification Report and latest Verification Report, as well as relevant documents, were reviewed. A detailed list of the reviewed documents can be observed in the Appendix 2 of this Verification Report.

2.3 Interviews

No.	Interviewee		Date	Subject	Team member
	Name	Role & Organization			
1.	Sharad Kumar More	Manager-Projects (Karnataka site)	18/11/2024 (KAR), 21/11/2024 (AP), 23/11/2024 (TN)	Project Implementation, Electricity generation records & invoicing procedure, Operational data, Monitoring equipment, monitoring plan,	Mr. Ishan Shrivastava (Lead Auditor/Technical Expert),
2.	Sunil Pisal	BOP O&M Contractor, Sakshi Electricals (Karnataka site)			
3.	Venkata Mallikarjuna	Asst Manager-Projects (AP site)			

4.	Hazi vali	O&M (AP site)	safeguarding measures, HSE programmes, training programmes, Management practices, data collection, recording-storage and archiving procedure, data transferring and results achievement and reproducibility, Organigram, operation and maintenance staff of the plant, QA/QC, calibration, Grievance mechanism, Grievances identified during current monitoring, waste management and environmental impacts, Issues related to local area development, Awareness about the project under GHGs reductions, ER calculations	Mr. Kumar Shubham (Auditor in Trainee/ Technical Expert in Training).
5.	S. Kalidass	Asst-Manager Projects (Tamil Nadu site)		
6.	Senthilnath	O&M (Tamil Nadu site)		
7.	Vijay Kumar	Security		
8.	Vipul Sahu	EKI Energy services limited		
9.	Marimuthu	Local stakeholder (Tamil Nadu site)		
10.	Venkatarama	Local stakeholder (AP site)		
11.	Ranga Reddy	Local stakeholder (Karnataka site)		

Interviews with local stakeholders:

The verification team has interviewed the local stakeholders (details mentioned in above table), and they were questioned for various topics as summarized below.

- Effect of project on their livelihood and income
- Any problem related to project installation in nearby areas
- Are they happy with the benefits and development as CSR activity of the PP?
- General feedback about the project
- Do they know about the grievance and feedback back register/mechanism?
- Any feedback; Concern (C) Positive (P) and Negative (N)

All the stakeholders expressed their satisfaction with the project activity and provided positive and satisfactory answers to the questions mentioned above.

2.4 Site Visits

Duration of on-site inspection: 18/11/2024 (KAR), 21/11/2024 (AP), 23/11/2024 (TN);			
Activity performed during site visit	Site location	Date	Team member
Assessment team checked the implementation of the project, Baseline emission, Emission reduction calculation, technical description of the project and Monitoring. Assessment team also checked that whether the monitoring plan as described in the VCS PD/4/ is actually practised onsite. Also, assessment team checked any change in host country criteria which may affect the baseline of the project activity.	Madhya Pradesh (MP), Rajasthan (RJ) Andhra Pradesh (AP), & Telangana (TG) States of India	18/11/2024 (KAR), 21/11/2024 (AP), 23/11/2024 (TN)	Mr. Ishan Shrivastava (Lead Auditor/Technical Expert), Mr. Kumar Shubham (Auditor in Trainee/ Technical Expert in Training).

2.5 Resolution of Findings

As an outcome of the verification process, the assessment team may raise different types of findings.

Where a non-conformance arises the assessment team shall raise a Corrective Action Request (CAR). A CAR is issued, where:

- a) Non-compliance with the monitoring plan or methodology are found in monitoring and reporting and has not been sufficiently documented by the project proponents, or if the evidence provided to prove conformity is insufficient;
- b) Modifications to the implementation, operation and monitoring of the project activity has not been sufficiently documented by the project proponents;
- c) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;
- d) Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project proponents.

The assessment team shall raise a Clarification Request (CL) if information is insufficient or not clear enough to determine whether the applicable requirements have been met.

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

All CARs and CLs raised during verification shall be resolved prior to submitting a request for issuance.

Raised CARs and CLs for this project activity's verification process are listed in Appendix 3 of this Verification Report.

The total number of CARs for this Verification has been 03 and 03 CLs have been raised for this Verification.

2.5.1 Forward Action Requests

This is 9th periodic verification of the project activity and no FAR was raised from validation or previous verification as verified from the validation report and previous verification report.

2.6 Eligibility for Validation Activities

This section is not applicable for present verification, as LGAI Technological Center, S.A. (Applus+ Certification) holds the necessary accreditation for the validation and verification for projects under Scope 1 / Technical Area 1.2.

3 VALIDATION FINDINGS

3.1 Methodology Deviations

PP has not sought any methodology deviations. Hence, this section is not applicable for present verification.

3.2 Project Description Deviations

There are few deviations approved in previous verification periods which were cross-checked and verified with registered documents^{/4/} and found acceptable.

Deviation – 1

This project Tamil Nādu site WTGs are under group captive since commissioning. To meet group captive consumers annual energy requirement, banking is done during high wind season ((i.e., from June to Oct) and then those units will get utilize in low wind season (i.e., from Nov to Mar). Due to this process electricity in invoice is different than JMR and cannot be consistent and not appropriate to compare or to take lower values as conservative approach. Also, TANGEDCO will deduct Transmission & Distribution loss in generating end while doing the energy allocation. This T&D loss will vary based on consumer drawl voltage (3.06%, 4.24%). Due to above reason, the comparison of JMR and invoices value for Tamil Nadu Site (Vagarai) is not appropriate as there is adjustment of electricity due to banking as explained above. Thus, PP is considering the JMR value for net electricity supplied to grid and for emission reduction calculations. There is no cross check possible due to difference in JMR and invoice values due to banking for Tamil Nadu site, hence only JMR value is considered for ER calculations. State electricity board is doing adjustment in invoice based on JMR value. Hence month wise J MR and invoice is not matching. Since JMRs are issued by state electricity board and authentic, JMR values are considered for ER calculations. There is no material impact on ER calculations as primary source of data are correctly applied for ER calculations and deviation regarding the same has been approved during the monitoring period (01-August-2019 to 31-March-2020) & thus accepted by assessment team.

Deviation – 2

For Burgula site of Andhra Pradesh, there is no individual meter which shows the generation from this site. The combined generation is shown in meter located at 132/33 KV, Racharla and JMR issued for 39.7 MW. This deviation has been approved during the monitoring period (01-June-2021 to 28-February-2022) verification & thus accepted by assessment team.

Deviation – 3

For Burgula site of Andhra Pradesh, export value for 37.4 MW is given and can be used for calculation but the import values need to be apportioned to obtain import for 37.4 MW. This deviation has been approved during the monitoring period (01-June-2021 to 28-February-2022) verification & thus accepted by assessment team.

Deviation – 4

The invoices for Burgula site are generated on export value. The total generation cannot be cross-checked with invoice. Hence, as conservative approach the minimum of invoice JMR and Invoice is considered for emission reduction. This deviation has been approved during the monitoring period (01-June-2021 to 28-February-2022) verification. As it does not affect project design and additionality of project activity. Hence deviations are accepted by VVB.

Above mentioned deviations 2, 3 and 4 were approved during monitoring period (i.e., 01-June-2021 to 28-February-2022). As it does not affect project design and additionality of project activity. Hence deviations are accepted by VVB.

Deviation – 5

The geo-coordinates were mentioned incorrect due to typo-error for Vagrai and Savalsung site. The project location was cross-checked by the assessment team through Google earth during desk review and the same was verified during site visit and found to be correct. This deviation has been approved during the previous monitoring period (01- April-2022 to 30-June-2023) verification.

Deviation – 6

The machine ID for the WTGs were mentioned incorrect for Savalsung site. The machine IDs was crosschecked by the assessment team during the on-site inspection and found to be correct. This deviation has been approved during the previous monitoring period (01- April-2022 to 30-June-2023) verification.

Above mentioned deviations 5 and 6 were approved during previous monitoring period (i.e., 01- April-2022 to 30-June-2023). As it does not affect the appropriateness of the baseline scenario, applicability of the methodology or additionality of project activity. Hence deviations are accepted by VVB

The above-mentioned deviations are of permanent nature and do not have any impact on the project applicability, baseline scenario and additionality.

3.3 New Project Activity Instances in Grouped Projects

The project is not a grouped project. Thus, 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

Item	Evidence gathering activities, evidence checked, and assessment conclusion:				
	Audit type	Period	Program	Validation/verification body name	Number of years
Audit history	Validation	21-February-2014-- 20-February-2024	VCS	EPIC Sustainability Services Private Limited	Ten years
	Verification	21-February-2014 - 01-April-2016	VCS	EPIC Sustainability Services Private Limited	Two years one month twelve days
	Verification	02-April-2016 - 01-May-2018	VCS	LGAI Technological Center S.A. (Applus+ Certification)	Two years one month
	Verification	02-May-2018 - 01-August-2019	VCS	LGAI Technological Center S.A. (Applus+ Certification)	One year three months
	Verification	02-August-2019 - 31-March-2020	VCS	LGAI Technological Center S.A. (Applus+ Certification)	Seven months thirty days

	Verificatio n	01-April- 2020 – 31- May-2021	VCS	KBS Certification Services Pvt. Ltd.	One year two months
	Verificatio n	01-June- 2021 – 28- February- 2022	VCS	LGAI Technological Center S.A. (Applus+ Certification)	Nine months
	Verificatio n	01-March- 2022 – 31- March-2022	VCS	LGAI Technological Center S.A. (Applus+ Certification)	One month
	Verificatio n	01-April- 2022 – 30- June-2023	VCS	VKU Certification Pvt. Ltd.	one year three months
	Verificatio n	01-July- 2023 – 20- February- 2024	VCS	LGAI Technological Center S.A.	Seven months twenty days
The above audit history of the project has been verified and confirmed to be correct by the assessment team from the VERRA project portal ^{6/23/} , Validation report, registered VCS PD, the previous monitoring reports & respective verification reports of previous monitoring periods ^{/4/} .					
Double counting and participation under other GHG programs	The current project activity is receiving REC benefits for a capacity of 45 MW ⁷ (30 WTGs) under the REC mechanism and is also seeking GHG emission reduction credits for 188.1 MW under the VCS program. The audit team has verified this allocation and cross-checked multiple registries, including UNFCCC CDM ⁸ , Gold Standard for the Global Goals (GS4GG ⁹), Global Carbon Council (GCC ¹⁰), International Carbon Registry				

⁶ <https://registry.verra.org/app/projectDetail/VCS/1728>

⁷ https://www.recregistryindia.nic.in/index.php/publics/accredited_regens

⁸ <https://cdm.unfccc.int>

⁹ <https://www.goldstandard.org/>

¹⁰ <https://projects.globalcarboncouncil.com/>

	(ICR¹¹) /24//25//26//25/ , finding no evidence of the project being registered under any other GHG program apart from VCS. Additionally, the International REC (I-REC) registry was reviewed, confirming that the project is not listed under I-REC. This thorough verification ensures that double counting is effectively ruled out for the current monitoring period. The project proponent has further submitted a declaration dated 29-March-2024, affirming that the project is not registered, rejected, or under consideration for registration in any GHG programs other than VCS. This declaration, along with the comprehensive database checks performed by the verification team, validates the integrity of the claims. The separation of REC benefits for 45 MW and VCS benefits for 188.1 MW demonstrates compliance with applicable standards and reinforces that there is no dual claiming or non-compliance.
No double claiming with emissions trading programs or binding emission limits	The project activity is not participating in other emission trading programs or binding emission limits as confirmed in declaration submitted by the project proponent/^{12/}. VVB confirms that project activity not included in ET program and not used for compliance with an emission trading program or to meet binding limits on GHG emissions. Project Proponent has submitted a declaration dated: 29-March-2024/^{12/} for no double counting with any other GHG program. PP also declared that that the credits claimed under VCS for the current monitoring period are not claimed under any other GHG mechanism and will not be claimed in the future either. This has also been confirmed by the assessment team by interview with the concerned person from the project proponent.

¹¹ <https://www.carbonregistry.com/>

No double claiming with other forms of environmental credit	The project has not sought, received or planning to receive any other forms of environmental credit for reductions and removals from another GHG-related environmental credit system. The project proponent has submitted a declaration dated: 29-March-2024/^{12/} to VVB team declaring that the project is not claiming any other form of GHG related environmental credit under any other emissions trading programs or binding emission limits. The assessment team has also cross-checked the issuance records available on the Verra/^{23/} website and thus confirmed & ensured that the emission reductions generated from the project activity are not & will not be double counted, hence accepted by the assessment team. The GHG credits from 01-July-2023 to 20-February-2024 (both days included) will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the declaration of “No Double Counting”./^{12/}
Supply chain (scope 3) emissions double claiming	The project activity is wind energy-based project developed by project proponent “JSW Neo Energy Limited ¹²”. The basic objective of the project is to the generate electricity and supply to Indian grid (via state electricity board). The project proponent is not involved in any other business activity where they can act as a buyer or seller of a product whose emission footprint is changed by the project activity. The project activity is not a part of any supply chain. Hence, there is no possibility for double claim. This has been confirmed by the assessment team by interview with the concerned person from the project proponent.
Sustainable development contributions	The Project activity is contributing to SDG 7, SDG 8 and SDG 13. The same is described in Section 1.12 of VCS MR/^{6/}. VVB confirmed that the project implementation has led in contribution to SDG 7, SDG 8 and SDG 13. The project supplies clean, affordable and renewable energy without reliance on fossil fuels for generation of electricity to meet the growing demands in the region. The generated electricity avoided release of 214,952tCO₂e into the atmosphere.

¹² Mytrah Group consists of subsidiary companies i.e., Mytrah Vayu (Indravati) Pvt. Ltd, Mytrah Vayu (Som) Pvt. Ltd., Mytrah Vayu (Godavari) Pvt. Ltd., Mytrah Vayu (Krishna) Pvt. Ltd., Mytrah Vayu (Tungabhadra) Pvt. Ltd

As declared by the project proponent in section 1.12 of the monitoring report^{6/}, the project contributes to below sustainable development goals:

SDG	SDG Target	SDG Indicator	VVB assessment
8	8.6	8.6.1 Proportion of youth (aged 15-24) not in education, employment or training	The project contributed to this SDG by providing employment to up to 84 people, and 30 trainings are given current monitoring period. The project activity has provided employment to a total of 178 people and 60 (30+30) Number of trainings are given since commissioning. The submitted employment records ^{/12/} by the project proponent has been verified to confirm the same and it was further cross-checked during on-site inspection through interviews with local people and PP representatives.
7	7.2	7.2.1 Renewable energy share in the total final energy consumption	The project contributes to this SDG by delivering 218,962.65MWh electricity to the INDIAN grid during the current monitoring period. The verification team has verified the reported electricity export/import data through Monthly statement- JMR (based monthly meter readings) ^{/11/} and the monthly invoices ^{/11/} issued by “JSW Neo Energy Limited ¹³ ” to the respective utility company,

¹³ Mytrah Group consists of subsidiary companies i.e., Mytrah Vayu (Indravati) Pvt. Ltd, Mytrah Vayu (Som) Pvt. Ltd., Mytrah Vayu (Godavari) Pvt. Ltd., Mytrah Vayu (Krishna) Pvt. Ltd., Mytrah Vayu (Tungabhadra) Pvt. Ltd

				which were shared by the PP and found it to be consistent. The project has supplied 3,115,829.78 MWh of electricity to the grid till date i.e. from the date of commissioning of the project till end of this monitoring period. The project has provided 218,962.65 MWh electricity in the current monitoring period. This has been verified from the previous period verification reports/^{4/} and the current monitoring report/^{6/}.																				
				<table><tr><th>Verification Term</th><th>Net Electricity Generation Value (MWh)</th></tr><tr><td>1st Verification</td><td>566,713</td></tr><tr><td>2nd Verification</td><td>714,121</td></tr><tr><td>3rd Verification</td><td>496,789</td></tr><tr><td>4th Verification</td><td>171,511</td></tr><tr><td>5th Verification</td><td>312,899</td></tr><tr><td>6th Verification</td><td>245,786</td></tr><tr><td>7th Verification</td><td>13,130</td></tr><tr><td>8th Verification</td><td>375,917.13</td></tr><tr><td>9th Verification</td><td>218,962.65</td></tr></table>	Verification Term	Net Electricity Generation Value (MWh)	1 st Verification	566,713	2 nd Verification	714,121	3 rd Verification	496,789	4 th Verification	171,511	5 th Verification	312,899	6 th Verification	245,786	7 th Verification	13,130	8 th Verification	375,917.13	9 th Verification	218,962.65
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				9 th Verification	218,962.65																			

				Total till date	3,115,829.78
	13	13.0	Total greenhouse gas emissions per year.	The project contributes to this SDG by avoiding GHG emission due to reduction in consumption of fossil fuels in electricity production and using wind energy instead for electricity generation. The project has avoided 3,058,775 tCO ₂ e being emitted to the environment till date i.e. from the date of commissioning of the project till end of this monitoring period. The project has avoided 214,952 tCO ₂ e in the current monitoring period. This has been verified from the previous period verification reports ^{/4/} and the current monitoring report ^{/6/} .	
				Verification Term	ER Value (tCO ₂ e)
				1 st Verification	556,341
				2 nd Verification	701,051
				3 rd Verification	487,697
				4 th Verification	168,371
				5 th Verification	307,153
				6 th Verification	241,287
				7 th Verification	12,889
				8 th Verification	369,034

				9 th Verification	214,952
				Total till date	3,058,775
Additional information relevant to the project	No commercially sensitive information has been mentioned in the monitoring report to have been excluded from the public version of the project documents. This has also been confirmed during interview with the concerned person from the project proponent.				

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion														
Stakeholder identification	The local stakeholder consultation was conducted prior to the implementation of the project activity during validation, as verified from the registered VCS-PD/4/.														
	The local stakeholder consultation is held as such-														
	<table><tr><th>Sl. No.</th><th>State</th><th>Meeting date</th></tr><tr><td rowspan="3">1</td><td rowspan="3">Tamil Nadu</td><td>23-October-2012</td></tr><tr><td>24-October-2012</td></tr><tr><td>25-October-2012</td></tr><tr><td>2</td><td>Andhra Pradesh</td><td>22-April-2013</td></tr><tr><td>3</td><td>Karnataka</td><td>21-April-2013</td></tr></table>	Sl. No.	State	Meeting date	1	Tamil Nadu	23-October-2012	24-October-2012	25-October-2012	2	Andhra Pradesh	22-April-2013	3	Karnataka	21-April-2013
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2	Andhra Pradesh	22-April-2013													
3	Karnataka	21-April-2013													
Project proponent has identified following stakeholders:															
1.Local village heads															
2. Employees															
3. Villagers															
4. NGOs,															
5. Local Government representatives etc.															

	Verification team checked the approved registered documents and interviewed local stakeholders during on-site inspection and found that Stakeholder identification appropriate.
Legal or customary tenure/access rights	Assessment team confirms that there are no legal 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. However, it was noted that the local community (villagers) has customary access rights to natural resources such as the grazing land around the unfenced wind turbine generators. Same was confirmed during the interview with PP. The project is wind-based energy generation, and it is established on the project proponent's land and there are no conflicting rights with the local community or other parties. This was also confirmed during on-site inspection and interviews with the local stakeholders. approved VCS-PD/^{4/} and grievance register/^{15/}.
Stakeholder diversity and changes over time	Verification team reviewed the stakeholder engagement and Ongoing Grievance register^{Error! No se encuentra el origen de la referencia.} and confirmed that 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. Project proponent confirmed during the on-site inspection conducted by the audit team, that the project involves various stakeholder groups, including the project owner, lender, customer, and the residents who live near the project implementing area. Notably, there is no indigenous community within this stakeholder group, and this composition has remained unchanged since the project's commissioning.
Expected changes in well-being	The representatives of Project proponent during the on-site inspection confirmed the following expected changes in well-being: 1. Economic well-being – The project activity results in employment generation which helps economic well-being of people provided as confirmed during the interviews. 2. Environmental well-being: Wind energy being a renewable source of energy, it reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. Due to its

	zero emissions, the Project activity also helps in avoiding significant amount of GHG emissions as verified from the emission reduction calculation sheet ^{7/} . During the current monitoring period, the project activity has reduced 214,952 tCO ₂ e.
Location of stakeholders	The local stakeholders consist of nearby villagers (Burgula, Salvasang, Vagarai). The project activity is also predicted to have a positive impact on local persons residing in the area of the project boundaries. This was confirmed by assessment team during the on-site inspection and by checking the project locations.
Location of resources	The project is installation of a wind power plant. It does not involve resources owned by the stakeholders. Verification team confirmed the same through interview with PP representative and local stakeholder during on-site inspection. Hence, not applicable

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion									
Ongoing consultation	Project Proponent has submitted the feedback register kept at site for the ongoing communication with the local stakeholders. In plant site office seeking complaints/grievances from local community as a part of ongoing communication with stakeholders in line with clause 3.18.3 of VCS Standard, v.4.7. VVB confirmed that during on-site inspection and interviews with PP& local stakeholder. & submitted grievance register/^{15/}. Further, VVB team reviewed complaints and feedback received through grievance mechanism.									
Date(s) of stakeholder consultation	Initial LSC conducted at the time of registration for both the sites are as follows: <table><tr><th>Sl. No.</th><th>State</th><th>Meeting date</th></tr><tr><td>1</td><td>Tamil Nadu</td><td>23-October-2012 24-October-2012 25-October-2012</td></tr><tr><td>2</td><td>Andhra Pradesh</td><td>22-April-2013</td></tr></table>	Sl. No.	State	Meeting date	1	Tamil Nadu	23-October-2012 24-October-2012 25-October-2012	2	Andhra Pradesh	22-April-2013
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	3	Karnataka	21-April-2013
	The stakeholder consultation dates have been verified with the registered documents/ ^{4/} and interview with local stakeholders during the on-site inspection.		
Communication of monitored results	Verification team has checked the registered VCS – PD/^{4/} and pertaining stakeholder consultation information (based on minutes of meeting) and confirmed that the stakeholder consultation meeting was focused 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 produced by wind plant with the primary objective of reducing emissions of GHGs in compared to pre-project or baseline scenario. The grievance logbook/^{15/} is always available at the site and office for stakeholders to write in or ask for assistance to write any inquiry. The verification team confirmed from the grievance register maintained by the PP that few comments (refer section 4.2.4 for more details) were received and resolved during the current monitoring period.		
Consultation records	The consultation records for the respective consultation meetings are as below: Verification team confirmed the details of stakeholder consultation of VCS-PD/^{4/}, during on-site inspection which was based on the minutes of meeting, mode of invitation, groups involved into the stakeholder consultation etc. and found acceptable. Moreover, for ongoing communication/feedback with local stakeholders PP maintains grievance registers/^{15/} for the records of all the comments/ grievances received for the project activity. The verification team confirmed from the grievance register maintained by the PP that few comments (refer section 4.2.4 for more details) were received and resolved during the current monitoring period		
Stakeholder input	The project proponent has considered suggestions and opinions of stakeholders. Verification team checked the details pertaining minutes of the meeting of stakeholder consultation during registration and confirm during the on-site visit and interviews with stakeholders & employees.		

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	No rehabilitation, relocation, or resettlement of local residents occurred as a result of the project activity. The stakeholder consultation meeting was conducted prior to the implementation of the project activities. Invitations were extended to participants, allowing them to voluntarily attend. During the meeting, stakeholders were encouraged to raise questions and share their concerns, which were addressed by the PP. This was verified through on-site inspections and interviews with local stakeholders, confirming their participation and the resolution of their queries.
Outcome of FPIC discussion	The project activity is under 9 th verification. These aspects have been covered under validation. As no negative comments or objections to the project have been received to date. The construction and operation phases were carried out without opposition from stakeholders. VVB verified this through on-site inspections and interviews with local stakeholders, confirming their acceptance.

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	Verification team has checked the feedback cum grievance register/ ^{15/} submitted by project proponent. Verification team found that no grievance received for the current monitoring period 01-July-2022 to 20-February-2024 and same was verified by VVB by interviewing local stakeholder during on-site inspection. Thus, verification team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate.
Grievance redress procedure	Assessment team during the on-site inspection found that, Grievance redressal mechanism is established as per the company policy. PP has maintained the grievance register at the project site for any kind of complaints if any. PP regularly review the grievance book and resolve

	the issue of local stakeholder and employee as well. Same has been confirmed during the site visit. During on-site inspection, it was confirmed that Stakeholder's feedback is monitored continuously, and the stakeholders are well aware of the grievance redressal procedure. Thus, verification team concludes grievances redressal process is adequate and appropriate.
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4.2.5 Public Comments

As identified in section 4.4 of the VCS-Validation Report^{4/} and checked from the VCS project webpage^{23/}, this project was open for public comments; No comments were received during this period.

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
No negative comments received	Not applicable as no negative comments received from public channel.	This is verification of the project. The expected comment is from the local stakeholder only. Verification team checked the feedback cum grievance register and confirmed that no negative input received during monitoring period. Thus, verification team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate

4.2.6 Risks to Local Stakeholders and the Environment

4.2.6.1 Management Experience

On-site inspections and interviews with key personnel, including management representatives and project leads, were conducted to assess the team's expertise. Relevant documents, such as organizational charts, resumes, training records, and project protocols, were reviewed to confirm qualifications and experience. Particular attention was given to prior project records, especially those involving construction, operations, and community engagement, as well as compliance with Verra requirements.

The management team possesses significant expertise and experience in implementing similar projects, with a strong focus on community engagement and adherence to environmental and social standards. The project involves no new entities, ensuring continuity and stability in its design and implementation. The team's established track record in managing operations and monitoring processes demonstrates their capability to oversee the project's critical aspects effectively.

The organizational structure, approved by the board, includes professionals with diverse skills in environmental management, data handling, and project oversight. The project proponent also has robust mechanisms to address potential expertise gaps through internal and external resources, ensuring seamless project execution and alignment with regulatory requirements.

Thus, assessment team noted that the team has all the expertise or experience needed to support the current project activity.

4.2.6.2 Risk Assessment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Natural and human induced risks to stakeholders' wellbeing	No Natural or human induced risks to stakeholder's wellbeing were identified for this project activity. Assessment team through the documentary review, reviewing the project location and on-site inspection, confirmed that the project is located in a remote area. Therefore, the project operation did not pose any risks to the stakeholder's well-being. Regardless of the project location, the project proponent has a Community Health and Safety Plan to prevent risks from occurring. They appointed site HSE personnel who are responsible for ensuring community health and safety near the site and detecting any early signs of risks through regular meetings with the local stakeholders. This practice was confirmed by the assessment team through interviews with local stakeholders and PP representatives during on-site inspection. Proper safety protocols are followed in and around the project premises. Also, it was confirmed that the local community did not experience any adverse impacts from the project. No grievances were raised for the same issues. Assessment team confirmed the same during on-site visit and by reviewing the grievance register.^{/15/} Thus, assessment team confirms that there are no Natural and human induced risks identified pertaining to stakeholders' wellbeing.
Risks to stakeholder participation	Stakeholder meeting was conducted during the validation stage of the project activity. There is no separate stakeholder consultation for the current verification other than ongoing communication with the stakeholders. Based on on-site inspections and interviews with local stakeholders, no evidence of exclusions, communication gaps, or barriers preventing stakeholder engagement in the project activity was identified.

	Stakeholders confirmed that they had access to the consultation process and were able to participate freely without any restrictions. Verification team has checked feedback registered and found that there is no risk to stakeholder for registering the grievances.
Working conditions	During the on-site inspection and interviews with project personnel, the assessment team evaluated the project's adherence to safety protocols and working conditions. Accidents at Work: The project implements a "permit to work" system, identifying potential hazards and associated risks, along with corresponding mitigation measures. Personnel confirmed that tools and safety equipment for high-risk tasks (such as working at heights, lifting, and hoisting) are regularly provided and maintained. Fire Hazards and Emergency Procedures: The project has established emergency response protocols, including regular fire extinguisher inspections, ensuring preparedness in the event of a fire or other emergencies. Site Safety: Site security measures and visitor protocols were verified, ensuring controlled access and safety for all individuals on-site. Unsafe Actions: The project follows an internal audit procedure to monitor and rectify unsafe actions, ensuring continuous improvement in site safety. Waste Spill: The project adheres to a scheduled waste management system, minimizing the risk of spills and ensuring appropriate disposal practices. Accidents and Incidents: The project has a clear procedure for reporting accidents and incidents, including provisions for first aid treatment, which is readily available on-site. The assessment team confirmed that these safety procedures are effectively implemented and that the working conditions on-site comply with established safety standards. There are no identified gaps or significant risks related to workplace safety. No such risks identified during the current monitoring period.
Safety of women and girls	No risk identified.

	The project implements safety procedures that comply with applicable laws, respect human rights, and ensure the safety of all employees, including women and girls. This was verified through on-site inspections and interviews with local stakeholders, confirming the presence of gender-sensitive safety measures. The assessment team concluded that the project meets the required safety standards for all workers.
Safety of minority and marginalized groups, including children	No risk identified. The PP has established human resource (HR) policies that align with statutory regulations to ensure the safety and protection of minority and marginalized groups, including children. Child labor is explicitly prohibited within the project operations. This was verified through an on-site inspection, where the team reviewed the HR policies and conducted interviews with local stakeholders, confirming that these policies are being adhered to on the ground. Additionally, no reports of child labor or safety concerns regarding marginalized groups were identified during the interviews. The verification process confirms that the project maintains a safe and compliant environment for all workers, including those from minority and marginalized backgrounds.
Pollutants (air, noise, discharges to water, generation and release of hazardous materials and chemical pesticides and fertilizers	The project, a wind power plant, effectively eliminates concerns regarding air pollution, as it does not produce emissions associated with traditional power generation methods. Additionally, the power generated by the project contributes to improved air quality by replacing coal-dominated power plants in the baseline, which also mitigates wastewater discharge and the use of hazardous materials. While there is a potential risk of noise from the wind turbines, the noise levels are within the permissible limits set by environmental regulations. Based on on-site inspections and interviews with local stakeholders, there was no evidence of significant environmental harm related to pollutants such as air emissions, water discharges, waste generation, or hazardous materials. The VVB concludes that the project effectively enhances the nearby environment and has achieved significant emission reductions.

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	During the on-site inspection, representative of the PP confirmed that the national law prohibiting the discrimination and sexual harassment ¹⁴ is being followed strictly. Further, verification team did not find any complain regarding the same in grievance register and through independent search. PP representative confirmed during on-site inspection that there have been no reports of discrimination for this monitoring period. The same has been confirmed from the HR policy of the company
Sexual harassment	During the on-site inspection, representative of the PP confirmed that the national law prohibiting the discrimination and sexual harassment ¹⁵ is being followed strictly. Further, verification team did not find any complain regarding the same in grievance register and through independent search. PP representative confirmed during on-site inspection that there have been no reports of sexual harassment for this monitoring period. The same has been confirmed from the HR policy of the company. Also, PP has implemented “Policy on Prevention of Sexual Harassment” ^{27/} .
Gender equity in labor and work	PP provides equal opportunities in the context of gender equity and pay for labour and work as confirmed during the on-site inspection and interview with project personal. The VVB team verified this by reviewing the policy documentation and interviewing personnel responsible for talent acquisition to ensure adherence to the outlined parameters. Additionally, Assessment team has checked the company human right (HR) policy ^{27/} and found it consistent with national labor law
Forced labor	Assessment team verified that, project is undergoing verification, project activity is already validated, thus during on-site inspection and interview with site in-charge and project proponent it was confirmed that, the project operates in compliance with the national labor law and PPs not employ victims of human trafficking, forced labor, as required

¹⁴ The Sexual Harassment Of Women At Workplace (PREVENTION, PROHIBITION AND REDRESSAL) ACT, 2013
ACT NO. 14 OF 2013, Dated 22-April-2013

¹⁵ The Sexual Harassment Of Women At Workplace (PREVENTION, PROHIBITION AND REDRESSAL) ACT, 2013
ACT NO. 14 OF 2013, Dated 22-April-2013

	by the Act. No forced labour observed during the interviews of PPs representatives and employment records submitted by PP.
Child labor	The project proponent bans all types of child labour via its policy. No complaints related to child labour have been received. The PP strictly follows the national laws prohibiting human trafficking, forced labour and child labour. There have been no reports of human trafficking, forced labour and child labour during this monitoring period as observed during the on-site inspection or feedback records which were confirmed through interviews with project staff. The project aligns with the labour convention and labour rights of India, which is a member of the International Labour Organisation (ILO). No human trafficking, no forced labour (all employees declared) and no children are employed by the project.
Human trafficking	The company staff are hired on a consensual and contractual basis. No complaints related to human trafficking have been received. The PP strictly follows the national laws prohibiting human trafficking, forced labour and child labour. There have been no reports of human trafficking, forced labour and child labour during this monitoring period as observed during the on-site inspection and confirmed through interview with project staff. The project aligns with the labour convention and labour rights of India, which is a member of the International Labour Organisation (ILO). No human trafficking, no forced labour (all employees declared) and no children are employed by the project.

4.2.7.2 Human Rights

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
No risk identified	Project Proponent following the International human rights law ¹⁶ , 38 conventions of ILO including Minimum Age Convention, 1973 (No. 138 Indigenous and Tribal Peoples (No 169)). Moreover, Companies operating in the country are required to conduct their operations in compliance with local regulations ¹⁷ by default. Thus, there are no

¹⁶ <https://www.ohchr.org/sites/default/files/Documents/Publications/fs9Rev.2.pdf>

¹⁷ https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:11200:P11200_COUNTRY_ID:102691.

	human rights violation of any kind to any of the stakeholders during construction and operation of the project activity. During the project development, local villagers were consulted and kept informed about the activities. No villagers were displaced as a result of the project. While land from a few villagers was acquired, they received adequate compensation which is confirmed during the interviews with local stakeholders and representatives of project proponent. A suggestion and grievance register are available at the project site for people to register/^{15/} any complaints which is also checked by the VVB and found no any negative comments. The project complies with all regulation and laws on human rights. The land on which the project was developed was previously vacant and undeveloped. Thus, the main social impact is only job creation by the project, which is being mitigated by PPs by creating employment/^{14/} to local people as well. The project is a wind power project activity which is implemented without cultural or social biases, safeguarding the rights of IPs, LCs, and customary rights holders to be free from discrimination. There are no human rights violation of any kind to any of the stakeholders during construction and operation of the project activity. The same was confirmed through on-site inspection and registered documents/^{4/} with the PPs, project staff and local stakeholders.
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4.2.7.3 Indigenous Peoples and Cultural Heritage

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
No risk identified to the cultural heritage	The project activity is Implemented on a land which is belongs by project owner. Hence, no tangible cultural heritage has been hampered for the project activity. There is no indigenous and cultural heritage near the project as observed during on-site inspection and interview with project personal. Further, PPs committed to protect regional as well as national cultural heritage.

4.2.7.4 Property Rights

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
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No risk identified	Assessment team confirmed that physical displacement was not required to operate this wind project. The project activity was conducted on land that was owned by project owner. Thus, no conflict emerged during this monitoring period. As verified by the assessment team from the registered PD and from the local stakeholders during the on-site inspection, there are no agreement signed on property rights, and project activity was conducted on land that was privately owned. There were no pending property rights conflicts and disputes as confirmed by the local stakeholders in the interviews during the current monitoring period. No conflict emerged during this monitoring period. Thus, no risks related to the property rights were identified.
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4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	The project does not have any adverse impact on other stakeholders' property rights. Since the benefits of the carbon credits lies with the project proponent and there is no benefit sharing plan. Hence, this section not applicable.
Benefit sharing during the monitoring period	The project does not have any adverse impact on other stakeholders' property rights. Since PP is the sole owner of the revenue generated from the project activity and no agreement was affected during the monitoring period, there is no benefit sharing plan. Hence, this section not applicable.

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	No risk identified related to impacts on biodiversity and ecosystems identified during current monitoring period. The project carries out control measures, including no access outside of the project area, no hunting, and control of lighting and night-time vehicle movements were incorporated in the project schedule. This will ensure no operational disturbance outside of the project area.

	Assessment team discussed these points during the on-site inspection and interview with project proponent representatives and Proper preventative measures are implemented nearby the project area to avoid loss of biodiversity. No records of birds or bats death were noted during the current monitoring period.
Soil degradation and soil erosion	No risk identifies related to impacts on Soil degradation and soil erosion identified during current monitoring period No soil erosion and degradation are likely to be caused by the project confirmed by project representatives during the on-site inspection & interviews to the VVB. Moreover, no any issues have been reported under feedback forms or neither reported during the interviews with local stakeholders.
Water consumption and stress	No risk identified related Water consumption and stress identified during current monitoring period. Assessment team noted that, there is no surface water flow and groundwater wells established within the project implementation territory. There was no adverse impact or stress on water consumption during the monitoring period. This was confirmed by project staff and local stakeholders during on-site inspection.

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	During the on-site inspection, project proponent informed that there are no sensitive, rare, threatened, or endangered flora or fauna species or habitat within the project implementing territory. Same was confirmed by the local stakeholders too.
Areas needed for habitat connectivity	As project is not located to any adjacent habitat for rare, threatened or endangered species. Therefore, project does not act as a barrier in habitat connectivity. Assessment team confirmed the details during the site visit & interviews with project proponent representatives and also local stakeholders.
Evidence gathering activities, evidence checked, and assessment conclusion	

Habitats for rare, threatened, and endangered species	This section is not applicable. Since, there is no impact on Habitats for rare, threatened, and endangered species. The project has not adversely impacted areas needed for habitat connectivity during the monitoring period. Assessment team through the review of project location and geo-coordinates confirmed that the project is relatively located in a remote area, which makes the project isolated. There are no habitats of people or any bird or animal species nearby the project area. Moreover, during the on-site inspection, PP representatives and local stakeholders informed that there are currently no other planned wind farms in the area. Therefore, it was confirmed that project did not impact the potential endangered species during current monitoring period. Hence, this section is not applicable.
Areas for habitat connectivity	This section is not applicable. Since, there is no impact on areas needed for habitat connectivity. The project has not adversely impacted areas needed for habitat connectivity during the monitoring period.

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
Not applicable	This section is not applicable since no new species have been introduced in the project implementation area as verified by the assessment team during the on-site inspection and interviews with PP representatives.

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
Not Applicable, as no invasive species exists.	This section is not applicable since as per registered PD ^{4/} , no environmental impact assessment (EIA) study was conducted at the time of VCS Validation as same was not required for renewable projects, in-line with host country regulation ¹⁸ published by Ministry of Environment and Forests (Government of India) notification dated 14-September-2006 regarding the requirement of environmental Impact Assessment (EIA) studies as per the Environmental Protection Rule, 1986 (Published in the Gazette of India, Extraordinary, Part-II, and Section 3, Sub-section (ii) Ministry

¹⁸ <http://www.environmentwb.gov.in/pdf/EIA%20Notification,%202006.pdf>

of Environment and Forests). However, VVB team interviewed PP representative at project site and accordingly observed that there is no invasive species exists at the project location. Thus, Same has been confirmed by VVB team.

Evidence gathering activities, evidence checked, and assessment conclusion	
Invasive species	This section is not applicable since no new species have been introduced in the project implementation area and there are no invasive species in the project implementation area as verified by the assessment team during the on-site inspection and interviews with PP representatives. Furthermore, As per registered PD^{4/}, no environmental impact assessment (EIA) study was conducted at the time of VCS Validation as same was not required for renewable projects, in-line with host country regulation¹⁹ published by Ministry of Environment and Forests (Government of India) notification dated 14-September-2006 regarding the requirement of environmental Impact Assessment (EIA) studies as per the Environmental Protection Rule, 1986 (Published in the Gazette of India, Extraordinary, Part-II, and Section 3, Sub-section (ii) Ministry of Environment and Forests). Hence, this section is not applicable.

4.2.8.3 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	The project activity is not ARR, ALM, WRC or ACoGS project. Hence it is not applicable.

4.3 Accuracy of Reduction and Removal Calculations

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the VCS PD ^{4/} . The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan of the VCS PD ^{4/} and MR.
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¹⁹ <http://www.environmentwb.gov.in/pdf/EIA%20Notification,%202006.pdf>

Findings	CAR02 was raised during the verification process and closed successfully. Please refer Appendix 3 of this report for the detailed closure of the findings.
Conclusion	Baseline Emissions: The baseline emissions for a given monitoring period is calculated in accordance with the para 44 of approved methodology ACM0002 version 16.0 as the project activity claims emission reduction from electricity generation. Formula used: Baseline emissions $BE_y = EG_{PJ,y} \times EF_{grid,y}$ Where: BE_y = Baseline emissions in year y (t CO₂) $EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh) $EF_{grid, CM, y}$ = Combined Margin CO₂ emission factor for grid connected power generation in the year y (tCO₂/MWh) <u>Ex-ante parameters</u> The grid emission factor i.e., 0.9817 tCO₂/MWh is sourced from the VCS registered PD^{4/}. The same is used for calculation of emission reductions. In addition to this, other ex-ante parameters which are sourced from the VCS registered PD are provide below: $EF_{grid, OM, y}$ - Operating Margin CO₂ emission factor in year y. The value monitored is 0.9887 tCO₂/MWh. $EF_{grid, BM, y}$ - Build Margin CO₂ emission factor in year y. The value monitored is 0.9609 tCO₂/MWh. $EF_{grid, CM, y}$ - Combined Margin CO₂ emission factor in year y. The value monitored is 0.9817 tCO₂/MWh. Here, $EG_{PJ,y} = 218,962.65 \text{ MWh}$ $EF_{grid, CM, y} = 0.9817 \text{ tCO}_2/\text{MWh}$ $BE_y = 218,962.65 \times 0.9817 = 214,952 \text{ tCO}_2\text{e}$ (Round- down value) <u>Ex-post parameter:</u> $EG_{PJ,y}$ - Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh. The value monitored is 218,962.65MWh. The verification team has checked the entire monthly Credit note/ JMR/Form B reports^{11/} from respective state electricity board for net electricity generated & supplied to the grid and crosschecked same with

the invoices/^{11/} raised by PP towards State Utilities for the monitoring period. $EG_{PJ,y}$ is taken as cumulated amount of net electricity generated by all WTGs installed in the project activity.

$EG_{PJ,y}$ is measured as per below calculation:

$$EG_{PJ,y} = EG_{BLKNy} + EG_{BLTNy} + EG_{BLAPy}$$

Where,

$$EG_{BLKNy} = EG_{Export, KN} - 115\% * EG_{Import} - \text{Transmission Loss (TE}_{KN})$$

$$EG_{BLTNy} = EG_{Export} - EG_{Import}$$

$$EG_{BLAPy} = EG_{Export} - EG_{Import} * 37.4/39.7$$

All values are found correct. All the parameters are monitored and recorded as per the monitoring plan in the MR. However; PPs have apportioned the values for the last month of the monitoring period where dates are not matching with JMR cycle in Burgula site, Andhra Pradesh state. Apportioning found appropriate and conservative. The details of monitoring equipment installed at each site are given in appendix 07 below.

The calculations/measurement of net electricity supplied to grid is under purview of state electricity board and the PP/Project activity Instance owner has no role on it. PP/Project activity Instance owner gets value of net electricity supplied to grid and hence this parameter is mentioned as a part of monitoring plan.

The net electricity supplied the grid by the project activity during the monitoring period is 218,962.65 MWh.

The generation values have been cross checked with the invoices and were found to be consistent.

All relevant monitoring parameters have been verified with regard to the appropriateness of the applied measurement/determination method, the correctness of the values applied for ER calculation/^{7/}, the accuracy, and applied QA/QC measures.

Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors.

BE_y (baseline emissions), tCO₂e

$$\begin{aligned} BE_y &= 218,962.65 \text{ MWh} \times 0.9817 \text{ tCO}_2\text{e/MWh} \\ &= 214,952 \text{ tCO}_2\text{e (round down values)} \end{aligned}$$

As per applied methodology ACM0002, version 16.0, the VCS PD, project emission is considered zero as the project activity involved Wind power generation/^{4/}.

	PE_y = As per ACM0002. - Version 16.0, all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected. As the project activity involved wind power project emissions (PE_y) are taken as zero. Leakage: As per ACM0002. - Version 16.0, Leakage emissions are not considered for the project activity^{/17/}. Hence, $ \begin{aligned} ER_y &= BE_y - PE_y - LE_y \\ &= 214,952 - 0 \\ &= 214,952 \text{tCO}_2\text{e (round down values)} \end{aligned} $ According to the applied methodology, the conservativeness of the achieved emission reduction was checked, and the detailed emission reduction calculation has been transparently provided in the ER sheet^{/7/}. All the formulae and the calculation procedure were checked by the verification team. In the opinion of verification team, the assumptions, emission factors and default values that were applied in the calculations have been justified. Also, the verification team confirms that there were no manual transposition errors between the data sets in the ER Sheet^{/7/} during the current monitoring period. It is confirmed that the data has been measured directly from meters and it was cross checked from the monthly electricity generation records and the invoices raised and was able to verify the same. Verification team confirms that the monitoring has been carried out in accordance with the monitoring plan contained in the VCS approved PD^{/4/}. Assessment team confirmed that the GHG emission reductions and removals have been quantified correctly in line with the VCS approved VCS PD^{/4/}.
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4.4 Quality of Evidence to Determine Reductions and Removals

Means of verification	The verification team checked the Calibration details of the monitoring meters with the calibration evidence ^{/5/} and whether the monitoring has been carried out in accordance with the applicable regulatory documents, inter alia, the applied methodology and registered monitoring plan. ^{/4//17/}
Findings	CAR 04 was raised during the verification process and closed successfully. Please refer Appendix 3 of this report for the detailed closure of the findings.
Conclusion	The verification team checked the break down log for the monitoring period^{/13/}. During the verification audit and the feeder wise location of the wind plants is also checked. The metering arrangement is bi-directional energy meters (Main and Check) of accuracy class 0.2s at the State Electricity Board (SEBI) sub-station. These electricity meters are being used by state electricity board for Share

certificate statements/JMR. These meters record several parameters including electricity exported & imported. These electricity meters are being used by state electricity board for monthly generation reports^{11/}. The details like meter Serial number, Calibration dates etc.^{5/} are provided in appendix 07 of this report.

The verification team confirms that the energy meters (main and check meters) installed across the Karnataka and Andhra Pradesh sites are of accuracy class 0.2s and have been calibrated as per the 5-year calibration frequency outlined in the monitoring plan of the VCS PD^{4/}. No calibration delays were observed at these sites during the current monitoring period. Interviews conducted during the site visit with O&M personnel corroborated these findings, and calibration certificates submitted by the Project Proponent (PP) confirmed compliance with the required frequency.

However, a calibration delay was observed for the meter installed at the Vagarai substation in Tamil Nadu (55.5 MW, 37 x 1.5 MW WTGs, 33 KV). Due to this delay, an error factor of 0.2 has been applied to the electricity generation data for the entire monitoring period for this site. The application of the error factor ensures conservative estimation and compliance with monitoring requirements.

The break down log is checked and there is no major breakdown during the monitoring period. No unforced error observed. No sampling procedure applied for monitoring of the data parameter and entire documents were checked by the assessment team to arrive at positive verification conclusions. The monitoring plan is followed at the project site. The monitoring meters were calibrated in line with the registered monitoring plan and there was no delay in calibration observed. Thus, assessment team concluded that the evidences are sufficient in quantity, and appropriate for the quality, to determine the GHG reductions and removals.
Error! No se encuentra el origen de la referencia.

All relevant documents were checked to assess the correctness and quality of data submitted by the project proponent, which are used to determine emission reductions. All the records needed for monitoring are archived in line with the requirements of the registered monitoring plan. No significant lack of evidence and missing data were detected during on-site inspection. 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 under each parameter and confirms to the requirement of the PD^{4/}. The export and import data are measured by the electricity meters, recorded continuously through electronic means and the invoices are generated monthly. The data

is then reported annually on the VCS Monitoring Report as verified by the verification team during on-site inspection.

It was also verified through on-site inspection 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 on-site inspection that internal training program for the monitoring staff is conducted on regular basis and same has been crosschecked from training record submitted by PP.

The VVB confirms that the monitoring has been carried out in accordance with the applicable regulatory documents, inter alia, the applied methodology^{/17/} and that there are no material discrepancies between the project implementation and the project description, the implementation of the monitoring plan, its completeness and adequacy to the methodology.

As a result of verification of the Emission Reductions calculation process, the VVB confirms that all the parameters required for their determination have been included in the Monitoring Report^{/6/} and ER Calculation sheet^{/7/} for which this verification applies.

After verifying the data sources, data collection and aggregation processes and final calculations and reported figures, it is confirmed that the values of the parameters from the data sources are consistent with those finally reported in the Monitoring Report and ER Calculation sheet. ^{/6//7/} The verification process for the same and the quality of used evidence have been clearly described above in Section 4 of this Verification Report^{/4/}.

The verification team can confirm that sufficient evidence is available for the whole monitoring period and the same is verifiable and that the data collection system meets the requirements of the monitoring plan and the applied methodology according to the assessment carried out during the on-site inspection and in the document review.

4.5 Non-Permanence Risk Analysis

Not applicable as this is a renewable project type.

5 VERIFICATION OPINION

5.1 Verification Summary

LGA Technological Center S.A. (Applus+ Certification) has been contracted^{/2/} by JSW Neo Energy Limited to perform the 9th periodic verification of GHG Emission Reductions for the project activity “Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-” (VCS project ID #1521)^{/23/}.

The monitoring period included in the Monitoring Report^{/6/} for which this verification applies is: 01-July-2023 to 20-February-2024 (both days included).

The management of JSW Neo Energy Limited is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project’s Monitoring Plan in the registered Project Description-Monitoring Report (PD)^{/4/} and the approved methodology, ACM0002, version 16.0.^{/17/}

VVB confirms that, GHG statement is the responsibility of the project proponent. The project activity fulfils the criteria for the verification as established in section 4 of the VCS standard version 4.7^{/10/}. Verification team has reviewed the monitoring report including registered VCS PD and subsequently carried out the on-site visit/ follow-up interviews with PP representatives and confirm the fulfilment of stated criteria. Verification team has the unmodified opinion regarding the project activity, VVB team has checked all the details and found it consistent and free of material errors or misstatements.

Applus+ Certification’s verification approach has been based on the requirements of the applicable regulatory documents (defined within this Verification Report and listed in the Appendix 2). Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these.

The verification can confirm that:

- The project is implemented and operated as per the registered PD^{/4/};
- The monitoring plan in registered PD is as per the applied methodology^{/17/};
- The monitoring complies with the monitoring plan in the registered PD^{/4/};
- The monitoring report and other supportive documents provided are complete and verifiable and in accordance with the applicable VCS requirements and any other applied regulatory document;
- The installed equipment’s being essential for generating emission reductions runs reliably and are calibrated appropriately (where applicable);
- The monitoring system is in place and generates GHG emission reductions data;
- The GHG emission reductions are calculated without material misstatements.

A Reasonable Level of assurance was achieved as planned, during verification process.

As per VCS Standard version 4.7 Para 4.1.10, VVB team verified that, the criteria for verification of the project activity are in line with the relevant VCS Version 4 criteria^{/10/}. The objective of this verification activity is to have an independent third party for the assessment of the Monitoring report, emission reduction sheet and to ensure a thorough assessment of the project activity against the applicable regulatory requirements.

VVB concluded the assessment, as per para 4.1.18 of the VCS standard version 4.7 ^{/10/}, with a positive verification opinion regarding the project activity. The VVB team has raised 03 Corrective action requests (CARs), 03 Clarification (CLs) and no FAR (forward action request). All the issues identified as CARs and/or CLs have been successfully closed and mentioned in Appendix 3 of this verification report. The VVB team clearly state that there is no material misstatement at the level of the GHG statement and GHG declarations made by the Project Proponent. VVB declared that the validation and/or verification of the GHG statement was conducted in accordance with ISO 14064-3:2019 and ISO 14065:2020.

5.2 Verification Conclusion

Our verification approach was based on the requirements as defined under the applicable VCS regulatory requirements^{/10/}. The verification has been conducted in accordance with the VCS standard version 4.7^{/10/}, other valid and applicable VCS regulatory documents and templates ^{/10/}(see under appendix 2 of this report), UNFCCC rules and requirements^{/17/} (where applicable) and associated decisions of the VCS secretariat and the UNFCCC Executive Board (where applicable) and VCS requirement. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. Further, the verification has been planned and organized to achieve a Reasonable Level of assurance as per the requirement of paragraph 4.1.10(1) of the VCS standard V4.7^{/10/}. No sampling procedure applied for document verifications. The entire documents checked/Power plant verification conducted to arrive at positive verification conclusions.

The verification team can confirm that:

- the project is implemented and operated as planned and described in the project documents;
- the monitoring plan is as per the applied methodology^{/17/};
- the monitoring process in Monitoring Report is as per the registered VCS PD^{/4/}
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan;
- the installed equipment's being essential for generating emission reduction runs reliably and are calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.
- A Reasonable Level of assurance was achieved as planned, during verification process.

Verification period: From [01-July-2023] to [20-February-2024]

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 VCUs (tCO ₂ e)
Year 2023 (01-July-2023 to 31-December-2023)	189,924	0	0	189,924	0	189,924
Year 2024 (01-January-2024 to 20-February-2024)	25,028	0	0	25,028	0	25,028
Total	214,952	0	0	214,952	0	214,952

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
01-Jul-2023 to 31-Dec-2023	241,694	189,924	-21.42 %	The actual emission reductions achieved during this vintage are -30.37% lower than the estimated emission reductions in VCS PD ^{6/} for corresponding vintage period. The observed variation in GHG emission reductions is primarily due to reduced electricity generation, attributed to a lower Plant Load Factor (PLF). This reduction resulted from a significant plant breakdown, as detailed in Appendix 6. Additional contributing factors include variations in wind flow patterns and intermittent
01-Jan-2024 to 31-Mar-2024	66,991	25,028	-62.64 %	
Total	308,685	214,952	-30.37 %	

				grid availability. These variations are beyond the control of the project proponent (PP), hence the justifications provided are acceptable.
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APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

<i>Section</i>	<i>Information</i>	<i>Justification</i>	<i>Assessment method and conclusion</i>
N/A	N/A	N/A	Not applicable as there is No commercially sensitive information has been included in this report.

APPENDIX 2: DOCUMENTS REVIEWED OR REFERENCED (VERIFICATION)

No.	Author	Title	References to the document	Provider
/1/	Respective State Utility	Commissioning certificates of the Wind turbine generators installed in Madhya Pradesh (MP), Rajasthan (RJ), Andhra Pradesh (AP), Telangana (TG) States of India	-	Project Proponent
/2/	VVB	Contract of the project Proponent with the VVB A+SH_SYST_TQC_VCS_VER_9924	Contract document signed between PP and VVB, Version 2.0, dated 22-October-2024	Project Proponent
/3/	NA	The operational lifetime of the project activity from the manufacturer (Technical specifications)	Manufacturer technical specifications	Project Proponent
/4/	Project Proponent & VVBs	Project Portal VCS PD VCS Verification Report (last verification)	https://registry.verra.org/app/projectDetail/VCS/1521 Version 2.0, dated 10-February-2016 Version 1.1, dated 23-December-2023	Others
/5/	Respective state authority	Calibration Certificates of installed monitoring energy meters	-	Project Proponent
/6/	Project Proponent	Monitoring Report version 01 (Initial) Monitoring Report version 03 (Final)	26-September-2024 30-November-2024	Project Proponent
/7/	Project Proponent	Emission reduction sheet version 01 (Initial) Emission reduction sheet version 02 (Final)	26-September-2024 25-November-2024	Project Proponent
/8/	Project Proponent	Operation and Maintenance Agreement's	-	Project Proponent
/9/	Project Proponent And Grid Company	Power Purchase Agreement (PPA)	-	Project Proponent
/10/	VERRA	Standard documents used in the project activity	VCS web site	VERRA

No.	Author	Title	References to the document	Provider
		- VCS Standard, v4.7 - VCS Program Guide, v4.4 - VCS Program Definitions, v4.5 - Registration and Issuance Process, v4.5 - Validation and Verification Manual, v3.2 - VCS Monitoring Report Template, v4.4 - VCS Verification Report Template, v4.4	(https://verra.org/programs/verified-carbon-standard/vcs-program-details/)	
/11/	State Utility for JMR, PP for invoice	Monthly statement- JMR & invoices for the complete monitoring period for the monitoring period 01-July-2023 to 20-February-2024	For the monitoring period 01-July-2023 to 20-February-2024	Project Proponent
/12/	Project Proponent	Self-Declaration regarding no double counting or participation in other GHG program or emissions trading program or any other mechanism that includes GHG allowance trading for the concerned monitoring period	29-March-2024	Project Proponent
/13/	Project Proponent	Breakdown details for the monitoring period	Shutdown breakdown records of the current monitoring period	Project Proponent
/14/	Project Proponent	Employment evidence for plant persons	For the monitoring period 01-July-2023 to 20-February-2024	Project Proponent
/15/	Project Proponent	Grievance Registers maintained at site	For the monitoring period 01-July-2023 to 20-February-2024	Project Proponent
/16/	UNFCCC	CDM validation and verification standard for project activities, Version 03.0	https://cdm.unfccc.int/sunsetcms/storage/contents/stored-file-20210921115831128/reg_stan06_v03.0.pdf	Others
/17/	UNFCCC	Applied Methodology, ACM0002: Large-scale Consolidated Methodology Grid-connected electricity generation from renewable sources Tool 07: Tool to calculate the emission factor for an electricity system (Version 07.0)	Version 16.0 (D5YFS9I3VKBT18MQ NGX0LPZ6U7AWCO) (https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf)	Others

No.	Author	Title	References to the document	Provider
/18/	NA	Onsite photographs of WTGs, components /Videos /Meters photographs, etc	-	Project Proponent
/19/	UNFCCC	Guidelines for Application of materiality in verifications (version 02.0)	Version 02.0	UNFCCC
/20/	Project Proponent	Single Line Diagram (SLDs)	-	Project Proponent
/21/	Project Proponent	Training Records	For the monitoring period 01-July-2023 to 20-February-2024	Project Proponent
/22/	Project Proponent	Plant Layout	-	Project Proponent
/23/	VERRA	VCS webpage for the project, VCS ID 1521	https://registry.verra.org/app/projectDetail/VCS/1521	Others
/24/	UNFCCC	Official registry website of Clean Development Mechanism https://cdm.unfccc.int/Projects/projsearch.html	Last retrieved data on 25-November-2024	Others
/25/	GS	Official registry website of Gold Standard https://www.goldstandard.org/	Last retrieved data on 25-November-2024	Others
/26/	GCC	Official registry website of Global Carbon Council https://www.globalcarboncouncil.com/	Last retrieved data on 25-November-2024	Others
/27/	Project Proponent	Company Policies • Sexual Harassment Policy • EHS • HR Policy	For the monitoring period 01-July-2023 to 20-February-2024	Project Proponent
/28/	IAF	<u>IAF MD4:2023 Document</u>	Version 04, dated 14-June-2023	Others
/29/	ICR	Official registry website of International Carbon Registry: https://www.carbonregistry.com/	Last retrieved data on 25-November-2024	Others
/30/	I-REC	Official registry website of International REC (I-REC) registry: https://www.irecstandard.org/	Last retrieved data on 25-November-2024	Others

APPENDIX 3: CORRECTIVE ACTION REQUESTS, CLARIFICATION REQUESTS AND FORWARD ACTION REQUESTS (CAR/CL/FAR)

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

FAR ID	XX	Section no.	Date: DD-Month-YYYY
Description of FAR			
NA			
Project participant response			Date: DD-Month-YYYY
NA			
Documentation provided by project participant			
NA			
VVB assessment			Date: DD-Month-YYYY
NA			

Table 2. CL from this validation / verification

CL ID	01	Section no.	4.1	Date: 23-NOVEMBER-2024
Description of CL				
Under section 2.1.1, PP to clarify stakeholder analysis process is conducted or not during current monitoring period, if yes then PP shall include the identified stakeholder's details with reference to VCS Template Fillin Instructions, Version 4.4.				
Project participant response				Date: 25-November-2024
The local stakeholder consultation was completed during the registration phase of this project. Although no meetings with local stakeholders were conducted during this monitoring period for feedback, the Project Proponent (PP) has implemented an ongoing communication system with stakeholders. A grievance register has been placed at the plant's security office to facilitate this. Through this ongoing feedback system, the PP acknowledges grievances and takes corrective actions to enhance day-to-day operations. The Grievance register copy is now been submitted to assessment team for the review.				
Documentation provided by project participant				
Grievance register copy				
DOE assessment				Date: 26-November-2024

As per PP clarification “The local stakeholder consultation was completed during the registration phase of this project.” Same has been crosschecked by assessment team from registered PD v2.0 dated 10-February-2016. Further, Section 2.1.1 of the submitted MR version 02.0 was checked by assessment team, and it was found that the information regarding stakeholder analysis process has been incorporated, which was also cross checked against the grievance register as well as during the on-site inspection, as provided by the PP. Thus, accepted by assessment team.

Hence, CL is closed.

CL ID	02	Section no.	4.1	Date: 23-NOVEMBER-2024
Description of CL				
During review of submitted JMR for Savalsung dated September 2023, assessment team observed monitoring equipment has chained. However, same is not reported in current monitoring report. Further, PP shall submit calibration certificates for both old and new meters.				
Project participant response				Date: 25-November-2024
Meter change details and Calibration details are being revised in monitoring report as per supporting documents for Savalsung site.				
Documentation provided by project participant				
Updated ER sheet Updated Meter change certificate				
DOE assessment				Date: 26--November-2024
PP has updated monitoring equipment's details in submitted Monitoring report, further, PP has also submitted meter change notice issued by Karnataka Power Transmission Corporation limited dated 07/10/2023 to verify the same. Moreover, PP has also submitted meter calibration certificate. Assessment team crosschecked all the submitted documents, which is found appropriate and relevant to project activity. Thus, accepted.				
Hence, CL is closed.				

CL ID	03	Section no.	4.2	Date: 23-NOVEMBER-2024
Description of CL				
During desk review of submitted monitoring report and supporting documents, verification team observed following:				
- In section 3.2, PP has sought for deviation for correction in geo-coordinates. However, PP has not clearly mentioned geo-coordinates for which WTGs has been updated, further also submit geo-tagged photograph for the same. PP to clarify. - In section 3.2, PP has sought for deviation for correction machine ID for the WTGs were mentioned incorrect for Savalsung site However, PP has not clearly mentioned machine ID for the WTGs has been updated. PP to clarify.				
Project participant response				Date: 25-November-2024

1. In section 3.2, Deviation 5 is requested and approved in Previous verification (01-April-2022 – 30-June-2023 (Both date Inclusive)) for correcting the geo-coordinates. However, the separate table for changes done in previous verification is now provided in appendix 5 of the monitoring report. 2. In section 3.2, Deviation is requested and approved in Previous verification (01-April-2022 – 30-June-2023 (Both date Inclusive)) for correcting the machine ID. However, the separate table for changes done in previous verification is now provided in appendix 3 of the monitoring report.	
Documentation provided by project participant	
Updated MR	
DOE assessment	Date: 26-November-2024
During review of submitted monitoring report and supporting documents, verification team observed following: - Section 3.2 has been revised by PP, sought deviation (deviation 5) already approved in previous verification (01-April-2022 – 30-June-2023) (Both date Inclusive) and same has been crosschecked by assessment team from previous VCS verification report Version 1.1, dated 23-December-2023. Further, PP has also incorporated separate table for changes done in previous verification is now provided in appendix 6 of the monitoring report, which is found appropriate and relevant to project activity. Thus, accepted and observation closed. - Section 3.2 has been revised by PP, sought deviation (deviation 6) already approved in previous verification (01-April-2022 – 30-June-2023) (Both date Inclusive) and same has been crosschecked by assessment team from previous VCS verification report Version 1.1, dated 23-December-2023. Further, PP has also incorporated a table for Machin ID, HTSC No. and commissioning date in appendix 3 of the monitoring report, which is found appropriate and relevant to project activity. Thus, accepted and observation closed. Hence, CL is closed.	

Table 3. CAR from this validation / verification

CAR ID	01	Section no.	4.1	Date: 23-NOVEMBER-2024
Description of CAR				
During desk review of submitted monitoring report and supporting documents, verification team observed following: - In section 1.1, Average electricity generation observed to be inconsistent with ER spreadsheet as emission reductions are calculated on the basis actual generation instead of schedule. Corrective action required. - In section 1.1, PP mention that commissioning dates of project activity is incorporated in appendix 1. However, same is missing from appendix 1. Corrective action required - For SDG 8, PP has submitted spread-sheet of employment records (Vagarai site) however, attendance register, salary slip etc were observed to be missing. Therefore, PP shall submit further records for assessment.				
Project participant response				Date: 25-November-2024
1. In section 1.1, Average electricity generation are now consistent with ER spreadsheet. 2. In section 1.1, PP mention that commissioning dates of project activity is incorporated in appendix 3, which is now corrected in MR. 3. For SDG 8, PP has now submitted the pay slips as employment records.				

Documentation provided by project participant	
1. Pay slips as employment generation evidence 2. Training records	
DOE assessment	Date: 26-November-2024
During review of submitted monitoring report and supporting documents, verification team observed following: • In section 1.1, PP has revised average electricity generation in accordance with ER spreadsheet. Further, emission reductions are calculated on the basis actual generation, which is found appropriate for the project activity. Thus, accepted and observation closed. • In section 1.1, PP has revised the reference of commissioning dates, further PP has incorporated Machin ID, HTSC No. and commissioning date in appendix 3 of the monitoring report and same has been referred in section 1.1. thus, accepted and observation closed. • With this submission PP has submitted salary slip and employment record for (Vagarai site) and same has been crosschecked by assessment team, which is found appropriate and relevant to project activity. Thus, accepted and observation closed. Hence, CAR is closed.	

CAR ID	02	Section no.	4.3	Date: 23-NOVEMBER-2024
Description of CAR				
During desk review of submitted monitoring report, ER spreadsheet and supporting documents, verification team observed following under submitted ER spreadsheet: 1. Values of energy generation mentioned under ER spread sheet found inconsistent with submitted JMRs & invoices and same has been commented in ER. Corrective action required 2. SDG 8 values mentioned in the ER sheet found inconsistent with the submitted supporting documents. Corrective action sought. 3. PP shall apply apportioning procedure for each site for the month of February and mention the same value in phase wise under ER sheet as mentioned for other months. Corrective action sought.				
Project participant response				Date: 25-November-2024
1. The Values of energy generation mentioned under ER spread sheet are now inconsistent with submitted JMRs & invoices. 2. SDG 8 values mentioned in the ER sheet are now consistent with the submitted supporting documents 3. PP has applied apportioning procedure for each site for the month of February in ER sheet				
Documentation provided by project participant				
Updated ER sheet.				
DOE assessment				Date: 26-November-2024

During review of submitted monitoring report, ER spreadsheet and supporting documents, verification team observed following under submitted ER spreadsheet:

1. PP has revised the values of energy generation made consistent with JMR & invoices and in accordance with the comments raised in ER spreadsheet. Further, assessment team rechecked all values mentioned in ER sheet and found consistent with JMRs & invoices. Thus, accepted and observation closed.
2. Assessment team crosschecked employment records and training records submitted by PP. Values mentioned for SDG 8 made consistent with supporting documents in monitoring report as well as in ER spreadsheet. Thus, accepted and observation closed.
3. PP has incorporated DGR values for the month of February and applied apportioning procedure for each site for the month of February and in accordance with the procedure mentioned in registered VCS PD, same has been crosschecked by assessment team and found correct. Thus, accepted and observation closed.

Hence, CAR is closed.

CAR ID	03	Section no.	4.2	Date: 23-NOVEMBER-2024
Description of CAR				
During desk review of submitted monitoring report and supporting documents, verification team observed following:				
• In section 4.2, under monitoring table for parameter $EG_{pj,y}$ value monitored found inconsistent with submitted ER sheet. corrective action required. • Meter details for Tamil Nadu site is missing from submitted MR report. Further, calibration certificate for the same is also missing. corrective action required.				
Project participant response				Date: 25/11/2024
1. In section 4.2, under monitoring table for parameter $EG_{pj,y}$ value monitored is now consistent with submitted ER sheet. 2. Meter details for Tamil Nadu site is added in revised monitoring report and calibration report are being submitted.				
Documentation provided by project participant				
Updated MR				
DOE assessment				Date: 26--November-2024
During review of submitted monitoring report and supporting documents, verification team observed following:				
• In section 4.2, PP has updated monitored value for $EG_{pj,y}$ and made consistent with updated ER spreadsheet, same has been crosschecked by assessment team and found correct. Thus, accepted and observation closed. • PP has incorporated meter details for Tamil Nadu, further assessment team crosschecked meter details from previous verification report Version 1.1, dated 23-December-2023 and JMRs and found consistent, further calibration details also found consistent with previous verification report. Thus, accepted and observation closed.				
Hence, CAR is closed.				

APPENDIX 4: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Lead Auditor (LA), Technical Expert (TE)	OE	Shrivastava	Ishan	True Quality Certifications Private Limited (Outsourced entity)	Yes	Yes	Yes	Yes
2.	Technical Expert in Training (TEiT)/ Auditor in Trainee (AiT)	OE	Shubham	Kumar	True Quality Certifications Private Limited (Outsourced entity)	Yes	Yes	Yes	Yes

Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical Reviewer (TR), Technical Expert (TE)	IR	Vega Nonalaya	Karen	LGA Technological Center S.A. (Applus+ Certification)

3.	Approver	IR	Calle de Miguel	Agustin	LGAI Technological Center S.A. (Applus+ Certification)
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Short CVs of the Team:

Mr. Ishan Shrivastava	Mr. Ishan Shrivastava, a Bachelor of Engineering in Mechanical Engineering graduate from Rajiv Gandhi Proudyogiki Vishwavidyalaya, India, brings a year of professional expertise garnered from his tenure at GAIL (India) Limited, one of India's prestigious Maharatna Companies, where he focused on Natural Gas, Energy, and Environmental matters. Currently, he actively associated with True Quality Certifications Pvt. Ltd., (Applus+ Certification's Outsourced Entity) having served as a pivotal team member since 2019. In this capacity, Ishan plays a significant role in supporting Audit teams as Lead Auditor & Technical Expert (TA 1.2 and 3.1) tasked with validating/verifying Project Activities, encompassing both Renewable and non-Renewable projects, within the framework of CDM/VCS/GS4GG/Bio- Carbon/GCC/ICR programs. His steadfast dedication to this pivotal responsibility underscores his expertise and unwavering commitment to the field. Mr. Ishan Shrivastava is based in Indore city, India. Mr. Ishan Shrivastava participates as part of the Audit Team as Lead Auditor & Technical Expert for the assessment.
Mr. Kumar Shubham	Mr. Kumar Shubham has completed an Integrated M. Tech in Energy Engineering from the Central University of Jharkhand in 2021. His research interests and experience include working on biomass-derived anode materials for sodium-ion batteries and participating in a research-based training program at IIT Guwahati where he worked on solar simulators, engine testing with biofuels, and solar PV waste management. He also gained project-based training at Jindal Steel and Power in energy saving. His research findings have been published in the Journal of Energy Storage. Currently he is associated with True Quality Certifications Pvt. Ltd. (Applus+ Certification outsource entity) since 2023 and has been involved in supporting Audit teams for Validation/Verifications of Project Activities (Renewable and non-Renewable projects) under CDM/VCS/GS4GG/GCC programs. Mr. Kumar Shubham is based in Indore, Madhya Pradesh, India Mr. Kumar Shubham participates as part of the Audit Team as Technical Expert-in-Training & Auditor in Trainee for the assessment.
Ms. Karen Elizabeth Vega Nonalaya	Ms. Karen Vega has a Bachelor's Degree in Environmental Sciences from the University of Barcelona, she has post-graduate studies in renewable energies, and a master's degree in finances. Karen has more than 7 years of professional experience in the sector of quality, environment, and climate change. Her professional career has been mainly focused, but not limited to, on the sector of validation and verification of GHG emission compensation and mitigation projects, in different countries and under universally recognized standards (CDM-UNFCCC, VS, GS4GG, GCC). She has also worked as Sustainability and Environment consultant mainly for the metal coating

	sector, conducting transversal roles and opening successfully the sustainability department in the company. Currently, she works in Applus + Certification Project Manager, being especially involved in technical and management tasks in the DOE/VVB to ensure the quality of the performance of different assessments, coordinate the global team, and maintenance of the Accreditations. Karen has attended different CDM, VCS, GS4GG, GCC, ISO 9001, and ISO 14001 training processes. She has conducted consultancy services for ISO 9001 and ISO 14001 implantation in various companies, being in charge from its beginnings until final certification and certificate obtain; in the same way she has conducted Carbon Footprint Analysis and Reports. Holds experience as Verifier for GHG mitigation projects and programmes of activities in Sectoral Scope 1.1 (Thermal energy generation) and 1.2 (Renewables), qualified as per Applus+’ procedures. She is already qualified as an auditor for ISO 9001, ISO 14001, GHG audits, Carbon footprint Audits and carbon projects audits (Sectoral Scopes 1.1 and 1.2). Ms. Karen Vega is based in Barcelona, Spain. Ms. Karen Vega participated as part of the Technical Review experts’ panel.
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APPENDIX 5: ABBREVIATIONS

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction(s)
CEA	Clean Energy Asia LLC
CL	Clarification request
CM	Combined Margin
CMS	Central Monitoring system
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming potential
NPTG	National Power Transmission Grid
PD	Project Description
JMR	Joint Meter Reading
JPD	Joint Project Description and Monitoring Report
PP	Project Proponent
QA/QC	Quality Assurance and Quality Control
SDGs	Sustainable Development Goals
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Voluntary Carbon Standard
VCSA	Voluntary Carbon Standard Association
VCS PD	VCS Project Description
VCUs	Voluntary Carbon Units
VVB	Validation Verification Body
WTG	Wind Turbine Generator

APPENDIX 6: BREAKDOWN RECORDS

Site: Vagrai			
Date	Reason for shutdown	Total Shut Down	Action Taken
03-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
06-July-2023	error_pitch_converter_ok_3	19:59	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
06-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
07-July-2023	error_pitch_converter_ok_3	18:01	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
07-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
08-July-2023	error_pitch_converter_ok_3	16:52	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
08-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
09-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
10-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
11-July-2023	error_converter_step_up_IGBT	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
11-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
12-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
13-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
14-July-2023	error_converter_generator_contactor	23:16	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
14-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
15-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
16-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

17-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
18-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
19-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
20-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
21-July-2023	Major Breakdown	15:42	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
23-July-2023	error_pitch_capacitor_voltage_hi_2	15:27	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
24-July-2023	error_converter_generator_contactor	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
25-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
26-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
27-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
28-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
29-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
30-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
31-July-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
01-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
02-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
03-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
04-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
05-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
06-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

07-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
08-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
09-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
10-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
11-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
12-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
13-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
14-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
15-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
16-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
17-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
18-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
19-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
20-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
21-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
22-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
23-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
24-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
25-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
26-August-2023	Major Breakdown	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

29-August-2023	ROW ISSUE	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
07-September-2023	error_pitch_converter_ok_2	23:07	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
08-September-2023	Error safety system safety system ok from pitch	0.64027778	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
29-September-2023	error_pitch_converter_ok_1	17:07	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
12-October-2023	Major Breakdown	24	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
19-October-2023	error_profi_node_43_diag	16:59	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
19-October-2023	error_profi_node_41_diag	18:01	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
07-November-2023	error_safety_system_safety_system_ok_from_pitch	19	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
08-November-2023	Preventive Action : Others(Blade PU Tape applying work)	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
08-November-2023	Preventive Action : Others(Blade PU Tape applying work)	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
09-November-2023	Preventive Action : Others(Blade PU tape fixing work)	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
09-November-2023	Preventive Action : Others(Blade PU tape fixing work)	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
11-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
12-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
13-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
19-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
21-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

21-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
22-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
22-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
24-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
24-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
25-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
25-November-2023	Preventive Action : Failure Rectification	24	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
27-November-2023	Preventive Action : Failure Rectification	1.02222222	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
27-November-2023	Preventive Action : Failure Rectification	1.02222222	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
28-November-2023	Preventive Action : Failure Rectification	23:54	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
28-November-2023	Preventive Action : Failure Rectification	1.0125	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
30-November-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
01-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
01-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
03-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
03-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
04-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
04-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
06-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
06-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

07-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
07-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
09-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
09-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
10-December-2023	Preventive Action: Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
10-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
12-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
12-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
13-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
13-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
15-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
15-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
16-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
16-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
20-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
20-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
21-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
21-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
21-December-2023	error_safety_system_safety_system_ok_from_pitch	10:09	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

23-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
24-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
24-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
25-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
25-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
26-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
27-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
29-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
30-December-2023	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
01-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
01-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
02-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
02-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
04-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
04-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
05-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
05-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
07-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
07-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
08-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

08-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
11-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
11-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
13-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
13-January-2024	Preventive Action: Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
14-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
14-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
18-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
18-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
19-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
19-January-2024	Preventive Action : Failure Rectification	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
Total		4915:18:00	
Site: Savalsang_ & Burgula			
Date	Error Name	Total WTG Down Hrs:	Action taken
06-June-2023	M/s for Blade damaged	24:00:00	due to Lightning damage found blade upper shell tip & trailing edge open 300mm, Up to repair work it will be in stop condition
07-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
08-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
09-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper

			shell tip & trailing edge open 300mm
10-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
11-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
12-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
13-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
14-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
15-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
16-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
17-June-2023	M/s for Blade damaged	24:00:00	Manual stop for due to Lightning damage found in this blade upper shell tip & trailing edge open 300mm
18-June-2023	M/s for Blade damaged	24:00:00	After completion of work blade repair work, wtg restored
03-July-2023	Synchronization timeout	24:00:00	Attend and check related connection and circuit we found encoder coupler was faulty:same was replaced then the wtg start:(Delayed to due non availability of material)
17- September- 2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

18-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
19-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
20-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
21-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
22-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
23-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
24-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
25-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
26-September-2023	M/s for Blade damaged	24:00:00	Work in progress after resolving shutdown issue
27-September-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
27-September-2023	M/s for Blade damaged	24:00:00	After blade repair WTG restored
28-September-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
29-September-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
30-September-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE

01-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
02-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
03-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
04-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
05-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
06-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
07-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
08-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
09-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
10-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
11-October-2023	M/s for Blade damaged	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
09-January-2024	M/s for Blade inspection and found blade damaged	24:00:00	Found C-blade damaged and discussion WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE with SGRE team for blade repair
10-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
11-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
12-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
12-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
13-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:

13-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
14-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
14-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
15-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
15-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
16-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
16-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
17-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
17-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
18-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
18-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
19-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
19-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
20-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:

20-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
20-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
21-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
21-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
21-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
22-January-2024	M/s due to blade damage	24:00:00	found C blade tip open due to lighing damaged now wtg stop condition:
22-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
22-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
23-January-2024	M/s due to blade damage	24:00:00	After completion of work normalized
23-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
23-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
24-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
24-January-2024	M/s due to blade damage	24:00:00	found A blade tip open due to lighing damaged now wtg stop condition:
25-January-2024	M/s due to blade damage	24:00:00	After completion of work normalized
25-January-2024	M/s due to blade damage	24:00:00	After completion of work normalized

27-January-2024	M/s for blade repair work	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
28-January-2024	M/s for blade repair work	24:00:00	WORK IN PROGRESS AFTER RESOLVING SHUTDOWN ISSUE
29-January-2024	M/s for blade repair work	24:00:00	After completion of work normalized
Total		1872:00:00	

APPENDIX 7: METER CALIBRATION DETAILS

Vagarai Tamil Nadu state 55.5 MW (37 * 1.5 MW WTGs)²⁰ 33 KV Substation.

Serial. No.	HTSC No.	Meter S. No.	Substation	Calibration date	Due date of calibration ²¹
1.	DRA 002	4321945	33 KV	25-May-2017	24-May-2022
2.	DRA 010	4322515	33 KV	23-May-2017	22-May-2022
3.	DRA 019	4322252	33 KV	22-May-2017	21-May-2022
4.	DRA 037	4322069	33 KV	20-May-2017	19-May-2022
5.	DRA 038	4321884	33 KV	20-May-2017	19-May-2022
6.	DRA 039	4322063	33 KV	05-May-2017	04-May-2022
7.	DRA 042	4321949	33 KV	20-May-2017	19-May-2022
8.	DRA 050	4322064	33 KV	20-May-2017	19-May-2022
9.	DRA 052	4321888	33 KV	20-May-2017	19-May-2022

²⁰ PP is claiming VCS benefits for only 37 WTGs out of 67 WTGs. Rest 30 WTGs are availing Renewable Energy Certificate (REC) benefits. Meter calibration of the 37 WTGs claiming VCS benefits was done at the date of commissioning. Later on, these meters were changed in the year 2017 (respective dates are mentioned in the table above). The calibration records of newly installed meters have been submitted to the DOE and the due date of calibration for the respective meters are mentioned in the above table.

²¹ As, meters were not calibrated during current monitoring period, hence error factor is applied for reporting months.

10.	DRA 055	4322067	33 KV	22-May-2017	21-May-2022
11.	DRA 011	4322519	33 KV	23-May-2017	22-May-2022
12.	DRA 014	4322517	33 KV	23-May-2017	22-May-2022
13.	DRA 016	4322521	33 KV	23-May-2017	22-May-2022
14.	DRA 020	4322433	33 KV	23-May-2017	22-May-2022
15.	DRA 028	4322566	33 KV	22-May-2017	21-May-2022
16.	DRA 029	4322574	33 KV	22-May-2017	21-May-2022
17.	DRA 030	4322374	33 KV	22-May-2017	21-May-2022
18.	DRA 034	4321977	33 KV	23-May-2017	22-May-2022
19.	DRA 035	4322581	33 KV	22- May- 2017	21-May-2022
20.	DRA 036	4322582	33 KV	22- May- 2017	21- May -2022
21.	DRA 040	4322160	33 KV	25- May- 2017	24- May -2022
22.	DRA 041	4321952	33 KV	25- May -2017	24- May -2022
23.	DRA 045	4321943	33 KV	20- May -2017	19- May -2022
24.	DRA 051	4322065	33 KV	20- May -2017	19- May -2022
25.	DRA 053	4321944	33 KV	20- May -2017	19- May -2022
26.	DRA 065	4322579	33 KV	22- May -2017	21- May -2022
27.	DRA 061	4322154	33 KV	20- May -2017	19- May -2022
28.	DRA 056	4321973	33 KV	25- May -2017	24- May -2022
29.	DRA 060	4321948	33 KV	20- May -2017	19- May -2022
30.	DRA 058	4322514	33 KV	23- May -2017	22- May -2022
31.	DRA 057	4322513	33 KV	23- May -2017	22- May -2022
32.	DRA 059	4322068	33 KV	20- May -2017	19- May -2022
33.	DRA 064	4322066	33 KV	20- May -2017	19- May -2022
34.	DRA 067	4322573	33 KV	22- May -2017	21- May -2022
35.	DRA 062	4321892	33 KV	25-May-2017	24-May-2022

36.	DRA 063	4322158	33 KV	20.May-2017	19-May-2022
37	DRA 066	4321947	33 KV	20.May-2017	19-May-2022

Sr. No.	HTSC No.	Meter Serial number	Meter change date	Meter serial no	Calibration date (New)	Due date of calibration (New)
1	DRA 002	4321945	15-November-2024	TNW06301	18-November-2024	17-November-2029
2	DRA 010	4322515	Meter Not Changed	4322515	18-November-2024	17-November-2029
3	DRA 011	4322519	17-July-2020	1379293	18-November-2024	17-November-2029
4	DRA 014	4322517	Meter Not Changed	4322517	18-November-2024	17-November-2029
5	DRA 016	4322521	Meter Not Changed	4322521	18-November-2024	17-November-2029
6	DRA 019	4322252	15-November-2024	24007833	18-November-2024	17-November-2029
7	DRA 020	4322433	Meter Not Changed	4322433	18-November-2024	17-November-2029
8	DRA 028	4322566	11-July-2019	HT2180394	18-November-2024	17-November-2029
9	DRA 029	4322574	Meter Not Changed	4322574	18-November-2024	17-November-2029
10	DRA 030	4322374	12-June-2023	TNW04955	18-November-2024	17-November-2029
11	DRA 034	4321977	21-January-2020	HT2180114	18-November-2024	17-November-2029
12	DRA 035	4322581	Meter Not Changed	4322581	18-November-2024	17-November-2029
13	DRA 036	4322582	16-August-2024	24007054	18-November-2024	17-November-2029
14	DRA 037	4322069	08-May-2024	24001195	18-November-2024	17-November-2029
15	DRA 038	4321884	05-September-2020	5840137	18-November-2024	17-November-2029
16	DRA 039	4322063	11-August-2023	TNW04980	18-November-2024	17-November-2029

17	DRA 040	4322160	16-August-2024	24007055	18-November-2024	17-November-2029
18	DRA 041	4321952	19-May-2022	TNW03741	18-November-2024	17-November-2029
19	DRA 042	4321949	Meter Not Changed	4321949	18-November-2024	17-November-2029
20	DRA 045	4321943	Meter Not Changed	4321943	18-November-2024	17-November-2029
21	DRA 050	4322064	Meter Not Changed	4322064	18-November-2024	17-November-2029
22	DRA 051	4322065	08-July-2024	23010990	18-November-2024	17-November-2029
23	DRA 052	4321888	11-August-2023	TNW04981	18-November-2024	17-November-2029
24	DRA 053	4321944	Meter Not Changed	4321944	18-November-2024	17-November-2029
25	DRA 055	4322067	20-November-2020	5840091	18-November-2024	17-November-2029
26	DRA 056	4321973	19-April-2021	5840034	18-November-2024	17-November-2029
27	DRA 057	4322513	08-July-2024	23010998	18-November-2024	17-November-2029
28	DRA 058	4322514	08-May-2024	24001200	18-November-2024	17-November-2029
29	DRA 059	4322068	08-July-2024	23010989	18-November-2024	17-November-2029
30	DRA 060	4321948	27-January-2020	HT2180113	18-November-2024	17-November-2029
31	DRA 061	4322154	11-July-2019	HT2180144	18-November-2024	17-November-2029
32	DRA 062	4321892	08-May-2024	24001198	18-November-2024	17-November-2029
33	DRA 063	4322158	27-January-2020	HT2180036	18-November-2024	17-November-2029
34	DRA 064	4322066	08-July-2024	24007005	18-November-2024	17-November-2029
35	DRA 065	4322579	19-May-2022	TNW03743	18-November-2024	17-November-2029
36	DRA 066	4321947	08-May-2024	24001196	18-November-2024	17-November-2029

37	DRA 067	4322573	Meter Not Changed	4322573	18-November-2024	17-November-2029
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Calibration details for Karnataka site WTGs 95.2 MW (112*0.85 MW WTGs) 33 KV Substation

S No.	Location	Meter type	Meter serial Number	Make	Accuracy class	Calibration date/Meter change date	Due date of calibration
1	Feeder 1	Main meter (Old)	13191120	L&T	0.2 S	23-September-2020	22-September-2025
		Main meter (New)	23007141	L&T	0.2 S	29-September-2023	28-September-2028
		Check meter (Old)	13191121	L&T	0.2 S	23-September-2020	22-September-2025
		Check meter (New)	23008036	L&T	0.2 S	29-September-2023	28-September-2028
2	Feeder 2	Main meter (Old)	13191094	L&T	0.2 S	23-September-2020	22-September-2025
		Main meter (New)	23007165	L&T	0.2 S	26-September-2023	25-September-2028
		Check meter (Old)	13191095	L&T	0.2 S	23-September-2020	22-September-2025
		Check meter (New)	23007169	L&T	0.2 S	26-September-2023	25-September-2028
3	Feeder 3	Main meter (Old)	13191100	L&T	0.2 S	23-September-2020	22-September-2025

		Main meter (New)	23007160	L&T	0.2 S	26-September-2023	25-September-2028
		Check meter (Old)	13191104	L&T	0.2 S	23-September-2020	22-September-2025
		Check meter (New)	23007168	L&T	0.2 S	26-September-2023	25-September-2028
4	Feeder 4	Main meter (Old)	13191096	L&T	0.2 S	23-September-2020	22-September-2025
		Main meter (New)	23007158	L&T	0.2 S	26-September-2023	25-September-2028
		Check meter (Old)	13191097	L&T	0.2 S	23-September-2020	22-September-2025
		Check meter (New)	23007159	L&T	0.2 S	26-September-2023	25-September-2028
5	Feeder 5	Main meter (Old)	13191114	L&T	0.2 S	23-September-2020	22-September-2025
		Main meter (New)	23007142	L&T	0.2 S	29-September-2023	28-September-2028
		Check meter (Old)	13191122	L&T	0.2 S	23-September-2020	22-September-2025
		Check meter (New)	23007164	L&T	0.2 S	29-September-2023	28-September-2028

6	Feeder 6	Main meter (Old)	13191159	L&T	0.2 S	23-September-2020	22-September-2025
		Main meter (New)	23007142	L&T	0.2 S	27-September-2023	26-September-2028
		Check meter (Old)	13191380	L&T	0.2 S	23-September-2020	22-September-2025
		Check meter (New)	23007164	L&T	0.2 S	27-September-2023	26-September-2028

Calibration details for Andhra Pradesh site WTGs 37.4 MW (44*0.85 MW WTGs) 33K KV wind metering

S No.	Meter type	Make	Class	Meter serial Number	Date of calibration	Due date of calibration
1	Main meter	L&T	0.2s	APX01701	14-February-2022	13-February-2027
2	Check meter	L&T	0.2s	APX01702	14-February-2022	13-February-2027
3	Standby meter	L&T	0.2s	APX01703	14-February-2022	13-February-2027

S No.	Meter type	Make	Class	Meter serial Number	Date of calibration	Due date of calibration
1	Main meter	L&T	0.2s	APX01701	10-February-2021	09- February-2026
2	Check meter	L&T	0.2s	APX01702	10-February-2021	09- February-2026