



**Verified Carbon
Standard**

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



Document Prepared By

LGAI Technological Center S.A. (Applus+ Certification)

Project Title	Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-01)
Version	03
Report ID	Internal project ID: A+SH_SYST_TQC_VCS_VER_5922

Report Title	Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-01)
Client	Mytrah Energy (India) Limited (subsidiary of Mytrah Vayu Krishna Private Limited and Mytrah Vayu (Manjira) Private Limited)
Pages	39
Date of Issue	19-May-2022
Prepared By	LGAI Technological Center, S.A. (Applus+ Certification)

Contact	Campus UAB – Ronda de la Font del Carme, s/n 08193 Bellaterra – Barcelona Spain) Tel: +34 93 567 20 08 Fax: +34 93 567 20 01 www.appluscertification.com agustin.calle@applus.com carla.debat@applus.com
Approved By	LGAI Technological Center S.A. (Applus+ Certification) VVB Technical Manager – Mr. Agustín Calle de Miguel
Work Carried Out By	Dr. Atul Takarkhede - Lead Auditor / Technical Expert

Summary:

Verification purpose: LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed^{/2/} by “Mytrah Energy (India) Limited” to perform the 6th periodic verification of the “Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-01)” (VCS ID 1521)^{/4/}. 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. 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-June-2021 to 28-February-2022 (including both days) and the project activity achieved 241,287 tCO_{2e} emission reductions during this monitoring period thereon displaced 245,786 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 scope of the verification is the independent and objective review of the Monitoring Report (MR)^{/6/}. The MR is reviewed against the relevant criteria (see above) and decisions by the CDM Executive Board and VCS executive board, including the approved baseline and monitoring methodology. The verification was based on the guidance given in the CDM validation and verification standard for project activities, version 03.0^{/16/}, review against registered PD^{/4/} and Final Validation report, VCS program guideline version 4.1^{/10/} and VCS Standard Version 4.2^{/10/}

A risk-based approach has been followed to perform this verification activity. In the course of verification, 06 Corrective Action request (CAR) and 00 Clarification Requests (CLs) were raised and successfully closed. No FAR was raised during this verification. The review of the Monitoring report and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and PP

have provided LGAI Technological Center S.A. (Applus+ Certification) 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. The main focus of the assessment team is to identify the significant risks for the project implementation and the generation of VERs. The verification is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring report combined.

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. The entire documents checked/verification conducted to arrive at positive verification conclusions.

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1 INTRODUCTION

1.1 Objective

LGAI Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “Mytrah Energy (India) Limited” to perform the 6th periodic verification of the “Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-01)” under guideline version 4.1 and VCS standard Version 4.2. 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 of version 16.0/20/
- The project’s monitoring plan is assessed against “ACM0002 of version 16.0/20/
- the projects compliance with the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS guideline version 4.1/10/ and standard Version 4.2/10/
- CDM validation and verification standard for project activities, Version 03.0/16/
- VCS program guideline v. 4.1/10/
- VCS standard v. 4.1/10/

Verification is a requirement for all VCS projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified emission reductions (VCUs).

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR)^{6/} prepared as per the registered PD^{4/} and registered approved methodology ACM0002 version 16.0/20/. The MR is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board and VCS standard Version 4.2/10/ and guideline version 4.1/10/, including the approved baseline and monitoring methodology ACM0002 version 16.0/20/. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 03.0/16/ and VCS program guideline version 4.1/10/ and VCS Standard Version 4.2/10/

The verification is not meant to provide any consulting towards the project participants. 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, 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 ER, omission or misstatement. The verification team has reviewed all the documents like commissioning certificates^{/1/}, technical specification^{/3/}, O&M practices, JMR^{/11/}, invoices^{/11/}, grievance registers^{/15/} etc.

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 estimated GHG emission reductions are fairly stated. All documentary evidences were checked, Onsite visit was conducted to arrive at a verification conclusion by the assessment team.

In our opinion, the estimated GHG emissions reductions were calculated correctly on the basis of the approved baseline and monitoring methodology “ACM0002 of version 16.0”^{/20/} and the VCS Standard Version 4.2^{/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 156 Wind Turbine Generators (WTGs) with capacity of 0.85 MW each located at Karnataka (112 WTGs) and Andhra Pradesh (44 WTGs) implemented by Mytrah Vayu Krishna Private Limited and 67 Wind Turbine Generator (WTGs) of 1.5 MW implemented by Mytrah Vayu (Manjira) Private Limited Tamil Nadu state in India. These are the subsidiary companies of Mytrah Energy (India) Limited. The commissioning details of the project and their location with SPVs are mentioned in the table below:

For Tamil Nadu site :-

S.No	Machine ID	Feeder Nos.	HTSC No.	Commissioning date	Latitude	Longitude
1	KOO - 518	Feeder 9	DRA 001	1-June-2014	10.695026 N	77.570779 E
2	KOO - 1359		DRA 003	1-June-2014	10.688039 N	77.592838 E
3	APY - 241	Feeder 5	DRA 004	1-June-2014	10.696430 N	77.655525 E
4	APY - 416		DRA 005	1-June-2014	10.693031 N	77.653586 E
5	PAR - 9		DRA 006	1-June-2014	10.678811 N	77.553641 E
6	PON - 534		DRA 008	1-June-2014	10.676050 N	77.571935 E
7	PON - 1043		DRA 009	1-June-2014	10.729955 N	77.576547 E
8	NAL-119	Feeder 2	DRA 012	1-June-2014	10.652837 N	77.545505 E
9	NAL - 81	Feeder 5	DRA 013	1-June-2014	10.664993 N	77.528386 E
10	NAL - 57		DRA 015	1-June-2014	10.763263 N	77.625708 E
11	MAN - 210	Feeder 9	DRA 017	1-June-2014	10.727352 N	77.585324 E
12	MAN - 898		DRA 018	1-June-2014	10.713748 N	77.629144 E
13	MAN - 802		DRA 021	1-June-2014	10.657353 N	77.553426 E
14	KON - 556	Feeder 4	DRA 022	1-June-2014	10.650216 N	77.649013 E
15	KON - 563		DRA 023	1-June-2014	10.699483 N	77.688256 E

16	KON - 590		DRA 024	1-June-2014	10.684740 N	77.608212 E
17	KON - 640		DRA 025	1-June-2014	10.738135 N	77.688168 E
18	KON - 658		DRA 026	1-June-2014	10.670208 N	77.629071 E
19	KON - 621		DRA 027	1-June-2014	10.667608 N	77.611546 E
20	KON - 501	Feeder 3	DRA 031	1-June-2014	10.694380 N	77.634057 E
21	ALA - 1639	Feeder 8	DRA 043	23-June-2014	10.665640 N	77.659623 E
22	ALA - 1946		DRA 044	23-June-2014	10.663297 N	77.566886 E
23	NAL - 434	Feeder 6	DRA 049	23-June-2014	10.648711 N	77.550586 E
24	KON - 234		DRA 054	14-July-2014	10.658922 N	77.561651 E
25	PAR - 50	Feeder 5	DRA 007	1-June-2014	10.737605 N	77.627596 E
26	MAN - 625	Feeder 3	DRA 032	1-June-2014	10.662515 N	77.557552 E
27	MAN - 604	Feeder 2	DRA 033	1-June-2014	10.644345 N	77.515043 E
28	ALA- 2301/2304	Feeder 8	DRA 046	23-June-2014	10.720840 N	77.587169 E
29	ALA - 1569		DRA 047	23-June-2014	10.759444 N	77.604996 E
30	ALA-2352		DRA 048	23-June-2014	10.763189 N	77.616268 E
31	KOO - 1157	Feeder 2	DRA 002	1-June-2014	10.669956 N	77.554773 E
32	PON - 1081		DRA 010	1-June-2014	10.660363 N	77.617842 E
33	MAN - 940	Feeder 9	DRA 019	1-June-2014	10.668934 N	77.569253 E
34	PON - 1565	Feeder 9	DRA 037	23-June-2014	10.673908 N	77.529976 E
35	PON - 1568	Feeder 6	DRA 038	23-June-2014	10.646536 N	77.555893 E
36	VEL - 1936	Feeder 8	DRA 039	23-June-2014	10.677837 N	77.535691 E
37	ALA - 1618	Feeder 9	DRA 042	23-June-2014	10.66492 N	77.547432 E
38	PON - 908	Feeder 8	DRA 050	23-June-2014	10.718534 N	77.615573 E
39	PON - 1203	Feeder 6	DRA 052	23-June-2014	10.71890 N	77.581396 E
40	MAN - 963	Feeder 7	DRA 055	16-July-2014	10.683484 N	77.617876 E
41	PON - 1021	Feeder 2	DRA 011	1-June-2014	10.773698 N	77.61412 E
42	KUL - 652	Feeder 5	DRA 014	1-June-2014	10.68742 N	77.616146 E
43	PON - 4		DRA 016	1-June-2014	10.692721 N	77.615369 E
44	MAN-828	Feeder 9	DRA 020	1-June-2014	10.692721 N	77.615369 E
45	KON - 618	Feeder 3	DRA 028	1-June-2014	10.710023 N	77.646516 E
46	KON-395		DRA 029	1-June-2014	10.77361 N	77.639413 E
47	KON-451	Feeder 2	DRA 030	1-June-2014	10.754682 N	77.62652 E
48	APA-84	Feeder 3	DRA 034	1-June-2014	10.689743 N	77.610703 E
49	PUN-270		DRA 035	1-June-2014	10.66565 N	77.517593 E
50	PUN - 34		DRA 036	4-June-2014	10.673745 N	77.54778 E
51	VEL-1702	Feeder 9	DRA 040	23-June-2014	10.681788 N	77.689854 E
52	KAL-93	Feeder 8	DRA 041	23-June-2014	10.649539 N	77.51747 E
53	ALA-2290		DRA 045	23-June-2014	10.654515 N	77.559157 E
54	PON - 775	Feeder 6	DRA 051	23-June-2014	10.65057 N	77.580673 E
55	ALA - 2260		DRA 053	23-June-2014	10.620784 N	77.564648 E

56	MET 1664	Feeder 7	DRA 065	09-January-2015	10.630660 N	77.569115 E
57	NAL - 445		DRA 061	03-December-2014	10.684400 N	77.563052 E
58	KOO-1036	Feeder 6	DRA 056	31-October-2014	10.667224 N	77.539641 E
59	VEL-1540	Feeder 7	DRA 060	03-December-2014	10.683467 N	77.536761 E
60	KOO-1174		DRA 058	31-October-2014	10.677765 N	77.616831 E
61	KOO-1000		DRA 057	31-October-2014	10.714956 N	77.67510 E
62	PON-1304		DRA 059	31-October-2014	10.659904 N	77.651955 E
63	APY-247		DRA 064	06-January-2015	10.656300 N	77.62939 E
64	KON-411		DRA 67	26-February-2015	10.765864 N	77.633324 E
65	KOO - 581		DRA 062	18-December-2014	10.709670 N	77.627337 E
66	VEL - 2119		DRA 063	24-December-2014	10.753168 N	77.683129 E
67	ALA 1385		DRA 066	04-February-2015	10.762752 N	77.680226 E

For Andhra Pradesh site:-

S. No.	Feeder Nos.	Location No.		Latitude	Longitude
1	Feeder 1	508	21-February-2014	15.154461 N	77.922135 E
2		510	21-February-2014	15.157268 N	77.921522 E
3		511	21-February-2014	15.158979 N	77.923322 E
4		513	21-February-2014	15.161872 N	77.923761 E
5		514	21-February-2014	15.163549 N	77.923292 E
6		515	21-February-2014	15.165388 N	77.922815 E
7		516	21-February-2014	15.166574 N	77.921892 E
8		517	21-February-2014	15.167997 N	77.920787 E
9		518	21-February-2014	15.16929 N	77.919977 E
10		519	21-February-2014	15.170968 N	77.918066 E
11		520	21-February-2014	15.172449 N	77.918783 E
12	Feeder 2	528	21-February-2014	15.185218 N	77.923655 E
13		529	21-February-2014	15.186921 N	77.923976 E
14		530	21-February-2014	15.189489 N	77.925118 E
15		531	21-February-2014	15.190881 N	77.925026 E
16	Feeder 3	532	15-March-2014	15.206692 N	77.937622 E
17		533	15-March-2014	15.208101 N	77.938972 E
18		534	15-March-2014	15.209818 N	77.940958 E
19		535	15-March-2014	15.211871 N	77.942781 E
20		536	15-March-2014	15.215178 N	77.947515 E
21		537	15-March-2014	15.216917 N	77.949166 E
22		538	15-March-2014	15.218416 N	77.950564 E
23		539	15-March-2014	15.221591 N	77.953603 E
24		540	15-March-2014	15.225099 N	77.957372 E
25		541	15-March-2014	15.226569 N	77.958248 E
26		542	15-March-2014	15.228387 N	77.959399 E
27		543	15-March-2014	15.229998 N	77.960501 E
28		545	15-March-2014	15.223820 N	77.956471 E

29	Feeder 3	546	15-March-2014	15.213598 N	77.946804 E
30		547	15-March-2014	15.204944 N	77.93730 E
31	Feeder 2	551	21-February-2014	15.188055 N	77.924987 E
32	Feeder 1	509	21-February-2014	15.155886 N	77.920862 E
33		512	21-February-2014	15.160386 N	77.923416 E
34	Feeder 2	521	21-February-2014	15.174326 N	77.91959 E
35		522	21-February-2014	15.175897 N	77.92030 E
36		523	21-February-2014	15.177475 N	77.921177 E
37		524	21-February-2014	15.179081 N	77.921943 E
38		525	21-February-2014	15.180875 N	77.922916 E
39		526	21-February-2014	15.182457 N	77.923515 E
40		527	21-February-2014	15.183845 N	77.923022 E
41		Feeder 3	544	15-March-2014	15.231485 N
42	548		15-March-2014	15.202938 N	77.936743 E
43	549		15-March-2014	15.201556 N	77.936035 E
44	Feeder 2	550	21-February-2014	15.192441 N	77.927995 E

For Karnataka site:-

S.No.	Feeder Nos.	Machine ID	Commissioning Datre	Latitude (N)	Longitude (E)
1.	Feeder 01	MVKPL_01-03	29-April-2014	17° 09' 49.3"	75° 43' 2.6"
2.		MVKPL_01-04	2-June-2014	17° 09' 37.1"	75° 43' 1.5"
3.		MVKPL_01-05	2-June-2014	17° 09' 31.4"	75° 43' 1.1"
4.		MVKPL_01-06	29-April-2014	17° 9' 29.4"	75° 43' 18.8"
5.		MVKPL_01-07	29-April-2014	17° 9' 24.3"	75° 43' 21.4"
6.		MVKPL_01-08	29-April-2014	17° 9' 16.6"	75° 43' 26.9"
7.		MVKPL_01-09	29-April-2014	17° 09' 11.2"	75° 43' 28.3"
8.		MVKPL_01-10	29-April-2014	17° 9' 3.6"	75° 44' 26.9"
9.		MVKPL_01-11	29-April-2014	17° 8' 59.1"	75° 44' 31"
10.		MVKPL_01-12	29-April-2014	17° 8' 51.9"	75° 44' 34.5"
11.		MVKPL_01-13	29-April-2014	17° 8' 38.9"	75° 44' 20.9"
12.		MVKPL_01-14	29-April-2014	17° 8' 34.3"	75° 44' 26.1"
13.		MVKPL_01-15	29-April-2014	17° 8' 26.2"	75° 44' 26.7"
14.	Feeder 2	MVKPL_02-01	29-April-2014	17° 09' 02.4"	75° 42' 49.2"

15.		MVKPL_02-02	29-April-2014	17° 08' 57.4"	75° 42' 44.3"
16.		MVKPL_02-03	29-April-2014	17° 08' 51.0"	75° 42' 39.8"
17.		MVKPL_02-04	29-April-2014	17° 08' 52.5"	75° 42' 31.9"
18.		MVKPL_02-05	29-April-2014	17° 08' 45.7"	75° 42' 41.7"
19.		MVKPL_02-06	29-April-2014	17° 08' 36.2"	75° 42' 37.6"
20.		MVKPL_02-07	29-April-2014	17° 08' 31.4"	75° 42' 31.1"
21.		MVKPL_02-08	29-April-2014	17° 08' 22.3"	75° 42' 23.2"
22.		MVKPL_02-09	29-April-2014	17° 08' 20.5"	75° 42' 46.8"
23.		MVKPL_02-10	29-April-2014	17° 08' 40.9"	75° 42' 53.7"
24.		MVKPL_02-11	29-April-2014	17° 08' 35.6"	75° 42' 59"
25.		MVKPL_02-12	29-April-2014	17° 08' 29.4"	75° 42' 59.9"
26.		MVKPL_02-13	29-April-2014	17° 08' 22.0"	75° 43' 00.1"
27.		MVKPL_02-14	29-April-2014	17° 08' 12.4"	75° 43' 03.0"
28.		MVKPL_02-15	29-April-2014	17° 08' 06.8"	75° 43' 04.7"
29.		MVKPL_02-16	29-April-2014	17° 08' 17.9"	75° 44' 29.8"
30.		MVKPL_02-17	29-April-2014	17° 07' 59.4"	75° 43' 53.5"
31.		MVKPL_02-18	29-April-2014	17° 07' 53.6"	75° 43' 50.9"
32.		MVKPL_02-19	29-April-2014	17° 07' 49.5"	75° 43' 36.0"
33.		MVKPL_02-20	29-April-2014	17° 07' 24.0"	75° 44' 02.4"
34.	Feeder 3	MVKPL_03-01	29-April-2014	17° 07' 03.4"	75° 41' 51.5"
35.		MVKPL_03-02	29-April-2014	17° 07' 10.6"	75° 42' 08.1"
36.		MVKPL_03-03	29-April-2014	17° 07' 52.0"	75° 42' 09.8"
37.		MVKPL_03-04	29-April-2014	17° 07' 03.2"	75° 42' 21.6"
38.		MVKPL_03-05	29-April-2014	17° 07' 29.2"	75° 42' 37.1"
39.		MVKPL_03-06	29-April-2014	17° 07' 44.7"	75° 43' 03.3"
40.		MVKPL_03-07	29-April-2014	17° 07' 48.5"	75° 42' 58.7"
41.		MVKPL_03-08	29-April-2014	17° 07' 18.6"	75° 43' 03.0"
42.		MVKPL_03-09	29-April-2014	17° 07' 11.3"	75° 43' 01.4"

43.		MVKPL_03-10	29-April-2014	17° 07' 04.4"	75° 42' 57.3"
44.		MVKPL_03-11	29-April-2014	17° 06' 58.5"	75° 42' 58.1"
45.		MVKPL_03-12	29-April-2014	17° 07' 34.2"	75° 43' 37.7"
46.		MVKPL_03-13	29-April-2014	17° 07' 18.1"	75° 43' 24.2"
47.		MVKPL_03-14	29-April-2014	17° 07' 12.3"	75° 43' 25.2"
48.		MVKPL_03-15	29-April-2014	17° 07' 06.2"	75° 43' 36.3"
49.		MVKPL_03-16	29-April-2014	17° 06' 51.9"	75° 42' 0.1"
50.		MVKPL_03-17	29-April-2014	17° 6' 46.2"	75° 43' 59.9"
51.		MVKPL_03-18	2-June-2014	17° 06' 37.9"	75° 43' 55.5"
52.		MVKPL_03-19	29-April-2014	17° 06' 31.1"	75° 43' 49.7"
53.	Feeder 4	MVKPL_04-01	2-June-2014	17° 06' 35.1"	75° 42' 52.8"
54.		MVKPL_04-02	29-April-2014	17° 06' 01.9"	75° 42' 29.4"
55.		MVKPL_04-03	29-April-2014	17° 05' 54.7"	75° 42' 21.6"
56.		MVKPL_04-04	29-April-2014	17° 05' 51.3"	75° 42' 46.6"
57.		MVKPL_04-05	29-April-2014	17° 05' 46.4"	75° 42' 41.3"
58.		MVKPL_04-06	02-June-2014	17° 05'39.9"	75° 42' 41.6"
59.		MVKPL_04-07	29-April-2014	17° 06' 35.9"	75° 43' 23.6"
60.		MVKPL_04-08	29-April-2014	17° 06' 28.8"	75° 43' 24.4"
61.		MVKPL_04-09	2-June-2014	17° 06' 23.9"	75° 43' 47.1"
62.		MVKPL_04-10	29-April-2014	17° 06' 15.6"	75° 43' 39.4"
63.		MVKPL_04-11	29-April-2014	17° 05' 59.5"	75° 43' 31.8"
64.		MVKPL_04-12	29-April-2014	17° 05' 27.3"	75° 43' 30.0"
65.		MVKPL_04-13	29-April-2014	17° 06' 04.5"	75° 43' 55.5"
66.		MVKPL_04-14	29-April-2014	17° 05' 59.0"	75° 43' 54.1"
67.		MVKPL_04-15	29-April-2014	17° 05' 51.0"	75° 43' 53.2"
68.		MVKPL_04-16	02-June-2014	17° 05' 38.9"	75° 43' 45.7"
69.		MVKPL_04-17	02-June-2014	17°05' 30.6"	75° 43' 49.0"
70.		MVKPL_04-18	29-April-2014	17° 06' 02.7"	75° 44' 32.2"

71.		MVKPL_04-19	29-April-2014	17° 05' 53.1"	75° 44' 20.5"
72.		MVKPL_04-20	29-April-2014	17° 05' 48.0"	75° 44' 11.2"
73.		MVKPL_04-21	29-April-2014	17° 05' 42.7"	75° 44' 20.2"
74.	Feeder 5	MVKPL_05-01	29-April-2014	17° 05' 54.8"	75° 40' 38.6"E
75.		MVKPL_05-02	29-April-2014	17° 05' 49.1"	75° 40' 40.6"
76.		MVKPL_05-03	29-April-2014	17° 05' 43.2"	75° 40' 40"
77.		MVKPL_05-04	29-April-2014	17° 05' 37.5"	75° 40' 39.2"
78.		MVKPL_05-05	29-April-2014	17° 05' 31.7"	75° 40' 38.1"
79.		MVKPL_05-06	29-April-2014	17° 5' 26.1"	75° 40' 34"
80.		MVKPL_05-07	29-April-2014	17° 05' 20.1"	75° 40' 30.9"
81.		MVKPL_05-08	29-April-2014	17° 05' 13.9"	75° 40' 32.7"
82.		MVKPL_05-09	29-April-2014	17° 05' 44.4"	75° 41' 52.6"
83.		MVKPL_05-10	29-April-2014	17° 05' 29.6"	75° 41' 42.6"
84.		MVKPL_05-11	29-April-2014	17° 05' 25.2"	75° 41' 26.4"
85.		MVKPL_05-12	29-April-2014	17° 05' 23.1"	75° 41' 49"
86.		MVKPL_05-13	29-April-2014	17° 05' 16.5"	75° 41' 48"
87.		MVKPL_05-14	02-June-2014	17° 05' 12.5"	75° 41' 59.3"
88.		MVKPL_05-15	02-June-2014	17° 05' 3.4"	75° 41' 57.6"
89.		MVKPL_05-16	02-June-2014	17° 05' 52.3"	75° 41' 36.9"
90.		MVKPL_05-17	02-June-2014	17° 05' 45.3"	75° 41' 33"
91.		MVKPL_05-18	02-June-2014	17° 05' 34.7"	75° 41' 32.7"
92.	Feeder 6	MVKPL_06-01	26-July-2014	17° 04' 51.4"	75° 42' 53.2"
93.		MVKPL_06-02	26-July-2014	17° 04' 43.4"	75° 42' 58.2"
94.		MVKPL_06-03	26-July-2014	17° 04' 31.8"	75° 43' 01.3"
95.		MVKPL_06-04	26-July-2014	17° 04' 25.3"	75° 43' 0.4"
96.		MVKPL_06-05	26-July-2014	17° 05' 9.3"	75° 43' 42.7"
97.		MVKPL_06-06	26-July-2014	17° 05' 5.6"	75° 43' 49.8"

98.		MVKPL_06-07	26-July-2014	17° 04' 53"	75° 43' 54.7"
99.		MVKPL_06-08	26-July-2014	17° 04' 45.3"	75° 44' 0.8"
100.		MVKPL_06-09	26-July-2014	17° 04' 28"	75° 44' 9.1"
101.		MVKPL_06-10	26-July-2014	17° 04' 20.3"	75° 44' 12.4"
102.		MVKPL_06-11	23-January-2015	17° 04' 12.7"	75° 44' 13.8"
103.		MVKPL_06-12	26-July-2014	17° 03' 48.9"	75° 44' 23.9"
104.		MVKPL_06-13	26-July-2014	17° 03' 55.5"	75° 44' 22.7"
105.		MVKPL_06-14	26-July-2014	17° 04' 57.8"	75° 42' 49.1"
106.		MVKPL_06-15	26-July-2014	17° 04' 9.1"	75° 44' 22.6"
107.		MVKPL_06-16	23-January-2015	17° 04' 5.2"	75° 43' 45.8"
108.		MVKPL_06-17	26-July-2014	17° 04' 1.3"	75° 45' 0"
109.		MVKPL_06-18	26-July-2014	17° 03' 41.6"	75° 44' 49.5"
110.		MVKPL_06-19	26-July-2014	17° 03' 55"	75° 43' 44.1"
111.		MVKPL_06-20	23-January-2015	17° 03' 44.1"	75° 44' 49"
112.		MVKPL_06-21	23-January-2015	17° 03' 50.6"	75° 44' 48.9"

The monitoring period this VCS verification covered from 01-June-2021 to 28-February-2022, (inclusive of both dates) and the project activity achieved 241,287 tCO_{2e} emission reductions during this monitoring period.

Assessment team checked the Commissioning status of the project activity with the commissioning Certificates and found correct. The project is implemented as per the description in the registered PD. No event observed during the current monitoring period which can alter or deviate from the methodology requirement.

2 VERIFICATION PROCESS

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/} and “VCS standard Version 4.2^{10/}, program guideline version 4.1^{10/}” and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. 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.

Once the project is received by the assessment team, the members of the assessment team carried out: -

1. A desk review of the Monitoring report^{/16/} against the registered PD^{/04/} and final validation report^{/17/};
2. Onsite audit and site visit;
3. The resolution of outstanding issues and the issuance of the final verification report and opinion.

The prepared verification report and other supporting documents then undergo an internal quality control at the HQ (Accredited office) before being submitted to the VCS executive board.

In order to ensure transparency, assumptions must be clear and stated explicitly and background material must also be referenced. Applus+ Certification has developed a specific checklist customized for the project. The checklist demonstrates, in a transparent manner, the project criteria (requirements), discussion on each criterion by the assessment team, and the results from validating the identified criteria.

Appointment of the assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification as composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of Applus+ certification. The composition of audit team shall be approved by the Applus+ Certification ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT).
- Technical Expert (TE).
- Technical Reviewer (TR).

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Dr. Atul Takarkhede	LA/TE	YES	YES	NA	YES
Mr. Simon Shen	TR	YES	YES	NA	NA

The detail regarding the assessment team is provided below in this report as Appendix 3

Document review

The Monitoring report version 01/06/ submitted by the PP was reviewed against the approved methodology/^{20/}, registered PD & MR/^{04/}, final validation report 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 1.

Site Visit

A Site visit is conducted by Applus+ Certification. Audit team performed onsite audit with project stakeholders to confirm selected information mentioned in monitoring report and to resolve issues identified in the document review. The detail is provided in this report.

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 2.

The final MR Version 02/06/ 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 of the final documentation including the verification report and the checklist have to undergo an internal quality control by the technical review committee, i.e., each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one to avoid any conflict of Interest.

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

2.2 Document Review

The details of the document observed during the verification process are listed below in Appendix 1 of this report

2.3 Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Kure	Mr. Ramesh	PP representative	11-April-2022 (TN) 12-April-2022 (AP) 13-April-2022 (KA)	Project Implementation, JMR & invoicing procedure, calibration, grievance mechanism, Management practices, data storage, QA/QC	Dr. Atul Takarkhede (Team Leader)
2.	Kumar	Mr. Rajesh	Site-in-charge, Burgula site			
3.	-	Mr. Kalidas	Site-in-charge, Vagari site			
4.	more	Mr. Sharad	Site-in-charge, Savalsung site			
5.	Sharma	Mrs. Nitya	Infinite Environmental Solutions LLP		GHG calculations, MR and ER preparation, Data collection, data storage, QA/QC	
6.	Krishnan	Mr. Murali	Local Stakeholder (TN)		Local Stakeholder consultation	
7.	Naidu	Mr. Gaurav	Local Stakeholder (TN)			
8.	Rai	Ms. Aliya Rama	Local Stakeholder (KA)			

2.4 Site Inspections

Duration of on-site inspection: 11-April-2022 (TN), 12-April-2022 (AP), 13-April-2022 (KA)				
No.	Activity performed on-site	Site location	Date	Team member
1.	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 is actually practised onsite. Also, assessment team checked any change in host country criteria which may affect the baseline of the project activity.	Dharapuram & Ottanchatiram, Tamil Nadu (TN) & Kurnool, Andhra Pradesh (AP) & Bijapur, Karnataka (KA) States of India	11-April-2022 (TN) 12-April-2022 (AP) 13-April-2022 (KA)	Dr. Atul Takarkhede (Team Leader)

2.5 Resolution of Findings

The objective of this phase of the Verification was to resolve the requests for corrective actions and clarification and any other outstanding issues from verification which need to be clarified for Applus+ Certification's 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 2.

The final MR Version 02/06/ 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.

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
Project design document and Monitoring report	00	01	00
Description of project activity	0	01	00
Application of selected baseline and monitoring methodology and selected standardized baseline			
Applicability of methodology and standardized baseline	00	00	00
Deviation from methodology	00	00	00
Clarification on applicability of methodology, tool and/or standardized baseline	00	00	00
Project boundary	00	00	00
Establishment and description of baseline scenario	00	00	00
Demonstration of additionality	00	00	00

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
Emission reductions	00	01	00
Calibration details	00	02	00
Monitoring plan	00	00	00
No Net harm assessment	00	00	00
Local stakeholder consultation	00	01	00
Others (please specify)	00	00	00
Total	00	06	00

The list of findings and the resolution is presented in Appendix 2 of this report.

2.5.1 Forward Action Requests

This is 6th periodic verification of the project activity and no FAR was raised from validation and previous verification.

2.6 Eligibility for Validation Activities

This section is not applicable for present verification, as Applus+ Certification holds the accreditation for Validation of projects under this Sectoral Scope.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project activity has not availed GHG emission reduction from any other GHG program and there will not be any double counting for the same except 45 MW (30 WTGs x 1.5 MW) from Tamil Nadu State (Vagarai site).

The electricity generated from this 45 MW REC component of Tamil Nadu are not included for VCU calculations to avoid any double accounting. The HTSC numbers DRA 01,03,04,05,06,07,08,09,12,13,15,17,18,21,22,23,24,25,26,27,31,32,33,43,44,46,47,48,49,54 (TOTAL 30 WTGs of 1.5 MW from Tamil Nadu site) is availing REC. Thus, electricity generated from these WTGs having REC component are not considered for VCU calculations for current complete monitoring period.

3.2 Methodology Deviations

This section is not applicable for present verification as no methodology deviation sought during this verification

3.3 Project Description Deviations

Following deviations are approved during previous verification:-

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 JMR 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.

3.4 Grouped Project

This is not a grouped project. Thus, this section is not applicable.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the Site visit, it was concluded that the project is implemented as per the requirement of the registered VCS PD and approved monitoring plan, during the current monitoring period; it was observed that no unforeseen incident/event evolved which can impact the operation of the project activity which was verified from breakdown records. The project undergone continuous operation and only scheduled maintenance is observed as per the manufactures specification which is acceptable to the assessment team and evident from JMRs.

The project activity is a 233.1 MW wind power project and locations of the same are confirmed by the verification team during the Site visit. The Project activity consists of 156 Wind Turbine Generators (WTGs) with capacity of 0.85 MW each located at Karnataka (112 WTGs) and Andhra Pradesh (44 WTGs) implemented by Mytrah Vayu Krishna Private Limited and 67 Wind Turbine Generator (WTGs) of 1.5 MW implemented by Mytrah Vayu (Manjira) Private Limited Tamil Nadu state in India. These are the subsidiary companies of Mytrah Energy (India) Limited.

Verification team confirmed from the registered PD^{/4/} and from previous verification reports^{/17/} that the location of the project activity including the coordinates is same as mentioned in the registered VCS PD^{/4/}.

Assessment team checked the commissioning certificate^{/1/} and confirmed that the dates of Commission for the Wind plants are correct. Assessment team also conform during site visit with the PPs representatives that there is no change in project design and the project is implemented as per the description provided in the VCS PD & MR. The project boundary includes the electricity generation equipment at the project site, substation and the regional grid (now Indian grid). Connected substations mentioned above are verified during site visit.

Assessment team also checked the technical details of the Wind plants installed onsite from documents submitted by PP and previous verification reports. The assessment team confirmed that there is no proposed or actual change to the project design during this monitoring period. The project design as mentioned in the registered PD is implemented and thus the same is acceptable to the assessment team. All required monitoring equipment's and procedures as mentioned in the registered PD are available and implemented in an appropriate manner.

The organisational role and responsibility as mentioned in the registered PD & MR^{/4/} is followed onsite confirmed during site visit. All the emergency preparedness as mentioned in the registered PD^{/4/} is followed onsite and no discrepancies were found regarding the same. Meters are calibrated as per calibration frequency in registered VCS PD^{/4/}. All the emergency preparedness as mentioned in the registered VCS PD is followed onsite and no discrepancies were found regarding the same. Thus, completeness of the monitoring plan confirmed and there are no any material discrepancies between the actual monitoring system and the plan provided in the registered joint PD& MR.

CAR 01 is raised for the inconsistency with respect to MR template guidelines and CAR 02 is raised for supporting evidences for No-Double counting and closed successfully after proper response of PP.

Assessment team confirms following during the verification Site visit:

1. Start date of the project activity is 21-February-2014 as mentioned in the registered VCS PD^{/4/}.
2. An undertaking letter dated 06-April-2022 has been submitted by PP for no double counting with any other GHG program except 30 WTGs of Tamil Nadu state site which registered under REC mechanism. PP also has given a written declaration that project has not claimed other form of GHG credit except REC for the concerned monitoring period. Thus, out of 67 WTGs, only 37 WTGs are considered by PP for emission reduction calculation for current monitoring period and same is reflected in ER sheet too.
3. Assessment team confirms that this is the 6th monitoring under VCS and covers the activity from 01-June-2021 to 28-February-2022 (inclusive of both dates). The project activity adopts renewable crediting period of 10 years period and can be renewed for maximum 2 times. 21-February-2014 is the start date and 20-February-2024 will be end date of the crediting period^{/6/}.

The GHG credits from 01-June-2021 to 28-February-2022 will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the “No Double Counting”^{/12/}.

4. Assessment team checked and found that the Project proponent of the project activity mentioned in Section 1.3 of monitoring report is correct^{/6/}:
5. Assessment team also checked the details of other entity mentioned in Section 1.3 of monitoring report and found correct^{/6/}.
6. The quantified emission reduction calculation for the monitoring period is correct and conservative. Assessment team also compared actual VER with the estimated VER and found that the actual VER is 241,287 tCO₂e which is 33.36% lower than the estimated emission reductions 358,601 tCO₂e [This ER estimation is with exclusion of 45 MW REC component of project activity] (479,448 tCO₂e/365 days x 273 days) during this monitoring period which is due to exclusion of 30 WTGs of 45 MW during ER calculation. Hence accepted^{/6/}.

Further, inline with para 3.16.1, “The project proponent must demonstrate that a project contributes to at least three SDGs by the end of the first monitoring period, and in each subsequent monitoring period.” As per the provision of implementation deadline, “Projects registered before 20 January 2023 shall demonstrate contributions to at least three SDGs by 20 January 2025”^{/12/}. However, PP have provided the information on the SDG contributions by the project activity for SDGs:

1. SDG 7.2.1: Renewable energy share in the total final energy consumption.
2. SDG 8.6.1: Proportion of youth (aged 15-24) not in education, employment or training
3. SDG 13.0: tonnes of greenhouse gas emissions avoided or removed.

VVB have assessed the SDG 7.2.1 and SDG 13.0 and supporting documents ^{/11/} shared by PP and found values correct. However, PP do not have submitted supporting documents for SDG 8.6.1 and thus same has not been verified being not mandatory till 20 January 2025.

4.2 Safeguards

4.2.1 No Net Harm

No potential environment or socio-economic matter was found during the documents review of VCS PD and grievance register etc. The project is renewable energy project and thus no negative impact observed due to project activity.

The project activity promotes environmental and socio-economic well-being as it results in zero GHG emissions due to installation and operation of clean, renewable energy technology for electricity generation. The report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” prepared by MNRE dated September 2013¹. This report clearly mentioned that wind/Wind power project activity operations do not result in direct air

¹ <https://smartnet.niua.org/sites/default/files/resources/report-on-developmental-impacts-of-RE.pdf>

pollution, noise pollution. Moreover, also as per the Central Pollution Control Board of India notification² wind/wind project falls under White Category and are practically non-polluting.

4.2.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration. For ongoing stakeholder's communication, PP have maintained grievance register/^{15/} at the site office. All the stakeholders are happy with the implementation and operation of the project activity and no negative comments envisaged for the project activity. Complaint/suggestion/feedback register is maintained at site as a part of ongoing communication with stakeholders in line with clause 3.16.17 of VCS Standard, ver. 4.2/^{10/} and appropriate actions taken time to time by PP.

Assessment team checked the grievance register/^{15/} provided by PP and found that local stakeholders can anytime lodge their grievances if any in the register over the operational life time of the project. During current monitoring period no grievance was received. Thus, assessment team is of the opinion that the ongoing stakeholder mechanism is adequate and appropriate. CAR 03 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.

4.3 AFOLU-Specific Safeguards

This section is not applicable as this project activity is a non-AFOLU project activity.

4.4 Accuracy of GHG Emission 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. 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 & MR.
Findings	CAR 04 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.
Conclusion	<p>Baseline Emissions: The baseline Emissions for a given year is calculated by multiplying the energy baseline with the grid emission factor. The grid in this case is 'Indian Grid'</p> <p>Formula Used: - $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ Where ,</p> <p>BE_y = Baseline Emissions in year y, tCO₂ $EG_{PJ,y}$ = 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/yr)</p>

² http://envfor.nic.in/sites/default/files/Latest_118_Final_Directions.pdf

	<p>$EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system” (t CO₂/MWh)</p> <p>Ex-ante parameters:</p> <p>The baseline emission factors are taken ex-ante in line with the registered VCS PD as well as cross checked with section validation report and found correct^{4/}. The baseline emission factors are calculated by the Central Electricity Authority, Govt. of India. The values of OM and and BM are sourced from the CEA CO₂ Baseline database version 14. The data Combined margin CO₂ emission factor ($EF_{grid,CM,y}$) is equal to 0.9817 tCO₂/MWh. The calculation approach was in line with the VCS PD.</p> <p>Values are as follows:</p> <p>$EF_{grid,OM,y} = 0.9887 \text{ tCO}_2/\text{MWh}$</p> <p>$EF_{grid,BM,y} = 0.9609 \text{ tCO}_2/\text{MWh}$</p> <p>$EF_{grid,CM,y} = 0.9817 \text{ tCO}_2/\text{MWh}$</p> <p>Ex-post parameter:</p> <p>$EG_{PJ,y}$ = Quantity of net electricity generation supplied by the project (Wind) plant/unit to the grid in year y = 245,786 MWh</p> <p>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.</p> <p>$EG_{PJ,y}$ is measured as per below calculation:</p> $EG_{PJ,y} = EG_{BLKNy} + EG_{BLTNy} + EG_{BLAPy}$ <p>Where,</p> $EG_{BLKNy} = EG_{Export,KN} - 115\% * EG_{Import} - \text{Transmission Loss (TE}_{KN})$ $EG_{BLTNy} = EG_{Export} - EG_{Import}$ $EG_{BLAPy} = EG_{Export} - EG_{Import} * 37.4/39.7$ <p>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 SVP are given in appendix 05 below.</p> <p>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</p>
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	<p>The net electricity supplied the grid by the project activity during the monitoring period is 245,786 MWh.</p> <p>The generation values have been cross checked with the invoices and were found to be consistent.</p> <p>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.</p> <p>Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors.</p> <p>BE_y (baseline emissions), tCO₂e</p> $BE_y = 245,786 \times 0.9817 \text{ tCO}_2\text{e/MWh}$ $= 241,287 \text{ tCO}_2\text{e (round down values)}$ <p>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/}.</p> <p>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 (<i>PE_y</i>) are taken as zero.</p> <p>Leakage: As per ACM0002 - Version 16.0, Leakage emissions are not considered for the project activity^{20/}.</p> <p>Hence,</p> $ER_y = BE_y - PE_y$ $= 241,287 - 0$ $= 241,287 \text{ tCO}_2\text{e (round down values)}$ <p>Verification team confirms that the monitoring has been carried out in accordance with the monitoring plan contained in the registered VCS PD^{4/}. Assessment team confirmed that the GHG emission reductions and removals have been quantified correctly in line with the registered VCS PD^{4/}.</p>
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4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

Means of verification	The verification team checked the Calibration details of the monitoring meters with the calibration certificates.
Findings	CAR 05 and CAR 06 were raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.

Conclusion	<p>The verification team checked the break down log for the monitoring period^{/13/}. During the remote verification audit and the feeder wise location of the wind plants is also checked.</p> <p>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. 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 make, Serial number, Calibration dates etc.^{/5/}. are provided in appendix 05 of this report.</p> <p>Verification team confirms that all the energy meters (main and check meter) installed at the substation are of accuracy class of 0.2s and are calibrated as per the calibration frequency mentioned in monitoring plan in VCS PD i.e. The calibration frequency of meters is once in 5 years^{/5/}.</p> <p>No delayed calibrations were observed in the project activity for this monitoring period. All the meters are of same accuracy class i.e., 0.2s as per the requirement of the registered PD. Interview during Site visit with O&M personnel also confirms the same^{/5/}.</p> <p>The calculation of net electricity supplied to grid is under purview of state electricity board and PP does not have control on it. Calibration details of the monitoring meters checked with calibration certificates submitted by PP and found that calibration frequency of 5 years is compiled^{/5/}. Thus, no delayed calibration is observed and thus the same is found appropriate.</p> <p>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.</p> <p>Assessment team checked the calculation of estimated VER vs. Actual VER. As per the registered VCS PD the amount of VERs annually is 479,448 tCO₂e. The days involved in present monitoring period are 273. Therefore, on pro-rata basis, the estimated VERs for the monitoring period is 358,601 tCO₂e. Actual VERs obtained for the monitoring period is 241,287 tCO₂e and thus the actual VER is 33.36% lower than the estimated VER. This variation is majorly due to low PLF (unfavourable sun) which is a natural phenomenon and beyond the control of the Project Proponent. Hence confirms that decrease in VER by 33.36% in this monitoring period is acceptable.</p>
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4.6 Non-Permanence Risk Analysis

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
NA	NA	NA	NA	NA

5 VERIFICATION CONCLUSION

Applus+ Certification has been engaged^{/02/} by Mytrah Energy (India) Limited to perform the 6th periodical verification of the “Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-01)”.

The project participants are 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 VCS PD^{/4/} and the applied methodology ACM0002 version 16.0^{/20/}

Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board. 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 VCS. 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 operated as planned and described in the project document;
- the monitoring plan is as per the applied methodology;
- the monitoring process in Monitoring Report is as per the registered PD^{/4/};
- the development and maintenance of records and reporting procedures are in accordance with the monitoring plan;
- the installed equipment being essential for generating emission reduction runs reliably and is 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: 01-June-2021 to 28-February-2022 (inclusive of both days).

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

Year	Baseline emissions or removals (tCO _{2e}) ³	Project emissions or removals (tCO _{2e})	Leakage emissions (tCO _{2e})	Net GHG emission reductions or removals (tCO _{2e})
01-June-2021 to 31-December-2021	2,16,754	0	0	2,16,754
01-January-20221 to 28-February-2022	24,533	0	0	24,533
Total	241,287	0	0	241,287

³Rounddown values

APPENDIX 1: 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 Karnataka, Andhra Pradesh and Tamil Nadu States of India.	-	PP
2.	Applus	Contract of the project participant with the DOE. Ref. No. A+SH_SYST_TQC_VCS_VER_5922	23-March-2022	PP
3.	NA	The operational lifetime of the project activity from the manufacturer (Technical specifications)	Manufacturer technical specifications	PP
4.	NA	Registered PD https://registry.verra.org/app/projectDetail/VCS/1521	10-February-2016	PP
5.	Respective state authority	Calibration Certificates of energy meters	-	PP
6.	NA	MR version 01 MR version 02 MR version 03	17-March-2022 15-April-2022 18-May-2022	PP
7.	NA	Emission reduction sheet version 01 Emission reduction sheet version 02 Emission reduction sheet version 03	17-March-2022 15-April-2022 18-May-2022	PP
8.	PP	O & M Agreements	-	PP
9.	SPVs and state board	Power Purchase Agreements	-	PP
10.	NA	Tools/ guidelines used in the project activity <ul style="list-style-type: none"> • Glossary of CDM terms version 07 • VCS standard Version 4.2 • VCS Program Guide 4.1 • VCS verification report template version 4.1 	UNFCCC CDM/VCS web site	UNFCCC
11.	State Utility for JMR, PP for invoice	Monthly statement- JMR & invoices for the complete monitoring period	-	PP
12.	PP	Declaration regarding no participation in other GHG program for the concerned monitoring period	06-April-2022	PP
13.	PP	Breakdown details for the monitoring period	-	PP
14.	PP	Employment records for plant persons	-	PP

No.	Author	Title	References to the document	Provider
15.	PP6	Grievance Register maintained at site	-	PP
16.	UNFCCC	CDM validation and verification standard for project activities, Version 03.0	-	UNFCCC
17.	Applus	Validation report. Ref. No. ESSPL/VCS/2016/025	Version 01 12-February-2016	
18.	KBS	Previous Verification Report, Report ID: VCS.21.VER.027 (H)	01-October-2021	PP
19.	PP	Breakdown details of the power plant	-	PP
20.	UNFCCC	ACM0002 of version 16.0	version 16.0	UNFCCC

APPENDIX 2: 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.	E.2	Date : DD/MM/YYYY
Description of FAR				
There is no FAR from the validation/previous verification of the project activity				
Project participant response				Date : DD/MM/YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD/MM/YYYY
NA				

Table 2. CL from this verification

CL ID		Section no.		Date:
Description of CL				
NA				
Project participant response				Date:
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date:
NA				

Table 3. CAR from this verification:
Project Implementation Status

CAR ID	01	Section no.	4.1	Date: 14-April-2022
Description of CAR				
During review of monitoring report following inconsistencies observed: <ol style="list-style-type: none"> 1. PP requested to revise and resubmit corrected MR as per comments provided. Kindly submit. 2. PP requested to submit copies of technical specifications WTGs, O&M agreement, Major Breakdown sheet of the project activity. Kindly submit. 3. PP has mentioned commissioning date of project activity in Appendix 1 of monitoring report. and to verify the same, supporting is provided inline with commissioning date mentioned in certificates. However, few WTGs detail is missing in MR for the Savalsang site of Karnataka district. Thus, Corrective action sought. 				
Project participant response				Date: 15-April-2022
<ol style="list-style-type: none"> 1. Revised MR version 2.0 sheet is submitted. 2. The following documents are submitted herewith- Technical specification of WTGs O and M agreement No major breakdown occurred during current monitoring period 3. <i>In the revised MR all the WTG details are added.</i> 				
Documentation provided by project participant				
<ol style="list-style-type: none"> 1. Revised MR Version 2.0. 2. Technical specification. 3. O and M agreement 				
DOE assessment				Date: 19-April-2022
<ol style="list-style-type: none"> 1. PP has submitted the revised MR as per the updated monitoring report version i.e., VCS (MR template version 4.1) and section of revised MR is updated as per VCS standard version 4.2. Thus, CAR is Closed. 2. PP has submitted the following document: <ol style="list-style-type: none"> i) Copy of Technical specification of all WTGs installed in the project activity. ii) Commissioning certificate for wind plant installed in state of Tamil Nadu, Karnataka and Andhra Pradesh. iii) PPA (power purchase agreement) between SPVs and respective state electricity board. iv) O &M agreement Above documents found consistent with the revised MR. thus accepted and CAR is closed. 3. Pending details of installed WTGs are now incorporated in revised MR by PP. found in line with commissioning certificates and previous verification report. Thus, accepted and CAR is closed. 				

CAR ID	02	Section no.	4.1	Date: 14-April-2022
Description of CAR				
PP is requested to submit an undertaking for no any double accounting for current monitoring period and for project activity is participated in other GHG program other than VCS to the assessment team. Kindly submit.				
Project participant response				Date: 15-April-2022

Submitting herewith signed copy of undertaking for no any double accounting for current monitoring period and for project activity is participated in other GHG program other than VCS.	
Documentation provided by project participant	
Copy of under taking letter	
DOE assessment	Date: 19-April-2022
PP has submitted the undertaking letter for no any double counting for current monitoring period dated 06-April-2022 and for project activity PP not claiming any ERs other than VCS verified by assessment team. Thus, CAR is closed.	

CAR ID	03	Section no.	4.2.2	Date: 14-April-2022
Description of CAR				
PP is requested to submit records of ongoing local stakeholder consultation including grievance register etc.				
Project participant response				Date: 15-April-2022
<i>Submitting herewith copy of grievance register for verification</i>				
Documentation provided by project participant				
<i>grievance register</i>				
DOE assessment				Date: 19-April-2022
PP has submitted grievance register as a supporting document for the ongoing local stakeholder consultation. During review of the same, Assessment team observed no major grievance submitted by local stakeholder to the PP and all minor grievance are already resolved. Thus, accepted and CAR is closed.				

Accuracy of GHG Emission Reduction and Removal Calculations

CAR ID	04	Section no.	4.4	Date: 14-April-2022
Description of CAR				
PP has submitted Emission Reduction sheet to assessment team. For verification of same submitted JMRs and sales invoices relevant to current monitoring period of project activity. However, during assessment team found values of electricity imported from grid is not inline with respective copies of JMRs for the Savalsang and Burgula site for some months. Comments are provided in ER sheet. Thus, corrective action sought.				
Project participant response				Date: 15-April-2022
ER sheet has been revised as per the comments.				
Documentation provided by project participant				
<i>Revised ER sheet</i>				
DOE assessment				Date: 19-April-2022
PP has revised the emission reduction sheet to revised ER submitted to assessment team for verification during current monitoring period deficiencies observed during the desk review for the import value of electricity generation for the Savalsang and Burgula site now consistent the JMR, thus accepted to assessment team and CAR is closed.				

Quality of Evidence to Determine GHG Emission Reduction and Removals

CAR ID	05	Section no.	4.5	Date: 14-April-2022
Description of CAR				
PP has provided detailed information of metering equipment like serial number, make, calibration date and validity of calibration and calibration frequency which is provided in MR. to verify same, supporting documents of electricity meters and calibration certificate submitted by PP. However, complete details of meter missing in MR for vagarai site for Tamil Nadu state. Thus, corrective action sought.				
Project participant response				Date: 15-April-2022
The substation details are added in revised MR version 2.0				

Documentation provided by project participant	
Revised Version 2.0	
DOE assessment	Date: 19-April-2022
PP has revised the details in revised MR for this monitoring period now complete detail is included in MR as per the for current monitoring period and certificates are inline with calibration date mentioned in monitoring report and found within maximum permissible error. Thus, accepted and CAR is closed.	

CAR ID	06	Section no.	4.5	Date: 14-April-2022
Description of CAR				
During review of emission reduction sheet, Assessment team observed achieved emission reduction values for throughout the monitoring period and vintage wise is not round down as per the conservative approach. Thus, corrective action sought.				
Project participant response				Date: 15-April-2022
The values are rounded down and same has been replicated in the revised MR version 2.0				
Documentation provided by project participant				
Revised MR Version 2.0				
DOE assessment				Date: 19-April-2022
PP has revised monitoring report and round down the achieved emission reduction value. Same is inline with the revised emission reduction sheet; thus, accepted and CAR is closed.				

Table 4. FAR from this verification

FAR ID	XX	Section No.		Date : DD-Month-YYYY
Description of FAR				
There is no FAR from this verification				
Project participant response				Date : DD-Month-YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD-Month-YYYY
NA				

APPENDIX 3: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Lead Auditor/Technical Expert	OR	TAKARKHEDE	ATUL	TQC-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)	EI	Shen	Simon	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustin	Applus+ Certification

Short CVs of the Team:

- Dr. Atul Takarkhede** is Ph.D. (Environmental Sciences) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical papers related to environmental sciences. He counts with more than 11 years of experience in field of Environmental Auditing, consulting and accreditation. He is an expert in ISO 9001-14001, CO2/GHG Reporting, Carbon Foot Print, Energy, Water and Waste Management reporting for organizations' environmental performance. His professional portfolio is mainly related with carrying out EIA, conducting QA/QC of EIA Reports; conducting environmental/water audits; NABET requirements appliance, functional area expert in Water Pollution & Solid & Hazardous Waste management among others. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. Currently he is associated with True Quality Certifications Private Limited and empanelled with Applus+ Certification to carry out GHG audits in the aforementioned schemes.
- Mr. Simon Shen** (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of

experience working as GHG Auditor and ISO 9001/14001 in TUV SUD for 3.5 years before he joined Applus+. Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.

APPENDIX 4: ABBREVIATIONS

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction(s)
CEA	Central Electricity Authority
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
PP	Project Participant

APPENDIX 5: CALIBRATION DETAILS

Vagarai Tamil Nadu state 55.5 MW (37*1.5 MW WTGs)⁴ 33 KV Substation

S. No.	HTSC No.	Old meter S. No.	Substation	Meter change date	New meter S. No.	Due date of calibration	Calibration Compliance
1.	DRA 002	12092331	33 Kv	25-May-2017	4321945	24-May-2022	No Delay observed in Scheduled Calibration
2.	DRA 010	14190323	33 Kv	23-May-2017	4322515	22-May-2022	
3.	DRA 019	12091451	33 Kv	22-May-2017	4322252	21-May-2022	
4.	DRA 037	12091997	33 Kv	20-May-2017	4322069	19-May-2022	
5.	DRA 038	12092349	33 Kv	20-May-2017	4321884	19-May-2022	
6.	DRA 039	12092267	33 Kv	05-May-2017	4322063	04-May-2022	
7.	DRA 042	12092317	33 Kv	20-May-2017	4321949	19-May-2022	
8.	DRA 050	12092323	33 Kv	20-May-2017	4322064	19-May-2022	
9.	DRA 052	14190336	33 Kv	20-May-2017	4321888	19-May-2022	
10.	DRA 055	14190278	33 Kv	22-May-2017	4322067	21-May-2022	
11.	DRA 011	14190249	33 Kv	23-May-2017	4322519	22-May-2022	
12.	DRA 014	14190299	33 Kv	23-May-2017	4322517	22-May-2022	
13.	DRA 016	14190312	33 Kv	23-May-2017	4322521	22-May-2022	
14.	DRA 020	14190301	33 Kv	23-May-2017	4322433	22-May-2022	
15.	DRA 028	14190333	33 Kv	22-May-2017	4322566	21-May-2022	
16.	DRA 029	14190313	33 Kv	22-May-2017	4322574	21-May-2022	
17.	DRA 030	14190294	33 Kv	22-May-2017	4322374	21-May-2022	
18.	DRA 034	14190337	33 Kv	23-May-2017	4321977	22-May-2022	
19.	DRA 035	14190331	33 Kv	22- May- 2017	4322581	21-May-2022	
20.	DRA 036	14190316	33 Kv	22- May- 2017	4322582	21- May -2022	
21.	DRA 040	14190292	33 Kv	25- May- 2017	4322160	24- May -2022	
22.	DRA 041	14190257	33 Kv	25- May -2017	4321952	24- May -2022	
23.	DRA 045	14190319	33 Kv	20- May -2017	4321943	19- May -2022	
24.	DRA 051	14190325	33 Kv	20- May -2017	4322065	19- May -2022	
25.	DRA 053	14190267	33 Kv	20- May -2017	4321944	19- May -2022	
26.	DRA 065	14190268	33 Kv	22- May -2017	4322579	21- May -2022	
27.	DRA 061	13197046	33 Kv	20- May -2017	4322154	19- May -2022	

⁴ 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. Hence, accepted.

28.	DRA 056	14190263	33 Kv	25- May -2017	4321973	24- May -2022
29.	DRA 060	14190320	33 Kv	20- May -2017	4321948	19- May -2022
30.	DRA 058	14190273	33 Kv	23- May -2017	4322514	22- May -2022
31.	DRA 057	14190341	33 Kv	23- May -2017	4322513	22- May -2022
32.	DRA 059	14190315	33 Kv	20- May -2017	4322068	19- May -2022
33.	DRA 064	14190279	33 Kv	20- May -2017	4322066	19- May -2022
34.	DRA 067	14190276	33 Kv	22- May -2017	4322573	21- May -2022

Calibration details for Karnataka site WTGs 95.2 MW (112*0.85 MW WTGs) 33 KV Substation

Location	Meter Type	Meter Serial Number	Make	Substation	Accuracy Class	Calibration Date	Due date of Calibration	Calibration Compliance
Feeder 1	Main Meter	13191120	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	No Delay observed in Scheduled Calibration
	Check Meter	13191121	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	
Feeder 2	Main Meter	13191094	L & T	33Kv	0.2s	20-May-2017	19-May-2022	
	Check Meter	13191095	L & T	33Kv	0.2s	20-May-2017	19-May-2022	
Feeder 3	Main Meter	13191100	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	
	Check Meter	13191104	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	
Feeder 4	Main Meter	13191096	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	
	Check meter	13191097	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	
Feeder 5	Main Meter	13191114	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	
	Check Meter	13191122	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	
Feeder 6	Main Meter	13191159	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	
	Check Meter	13191380	L & T	33Kv	0.2s	23-Sep-2020	22-Sep-2025	

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

Meter Type	Meter Serial No.	Calibration Date	Substation	Due Date	New calibration date	Due date	Calibration Compliance
Main Meter	APX01701	28-July-2017	33 Kv	27-July-2022	14-Feb-2022	13-Feb-2027	No Delay observed in Scheduled Calibration
Check Meter	APX01702	28-July-2017	33 Kv	27-July-2022	14-Feb-2022	13-Feb-2027	
Standby Meter	APX01703	28-July-2017	33 Kv	27-July-2022	14-Feb-2022	13-Feb-2027	