



250 MW WIND POWER PROJECT BY MYTRAH ENERGY



Document Prepared By

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

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Summary:

Verification purpose: LGAi Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “M/s Mytrah Vayu (Sabarmati) Pvt. Ltd” to perform the 2nd periodic verification of the “250 MW Wind Power Project by Mytrah Energy”. 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 project activity involves installation of 250 MW wind power project in the state of Tamil Nadu. The electricity generated from the WTGs will be sold to state electricity board. The project is registered with VCS with Project ID 2020¹. The generated electricity is exported to the regional grid system which is under the purview of the INDIAN Grid.

Start date of the project activity is the 30-January-2019. The monitoring period for this VCS verification is chosen from 01-Decemeber-2019 to 31-March-2020 (including both days) and the project activity achieved 100,366 tCO₂e emission reductions during this monitoring period thereon displacing 107,139.04 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). 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 02.0, review against registered PD and Final Validation report, CDM Project Standard for project activities, version 02.0, CDM project cycle procedure for project activities, version 02.0 and VCS program guideline and standard version 4.0.

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.

¹<https://registry.terra.org/app/projectDetail/VCS/2020>

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/WTGs verification 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) has been appointed by “M/s Mytrah Vayu (Sabarmati) Pvt. Ltd.” to perform the 2nd periodic verification of the “250 MW Wind Power Project by Mytrah Energy” under VCS standard and guideline version 4.0. 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 19.0”
- the project's monitoring plan is assessed against “ACM0002 - Version 19.0”
- 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 and standard version 4.0
- CDM validation and verification standard for project activities, Version 02.0
- CDM Project Standard for project activities, version 02.0
- CDM project cycle procedure for project activities, version 02.0
- VCS standard v4.0
- VCS program guideline v4.0

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 (VERs).

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the Monitoring report (MR) prepared as per the registered PD and registered approved methodology ACM0002 - Version 19. 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 and guideline version 4.0, including the approved baseline and monitoring methodology ACM0002 - Version 19. The verification was based on the requirements in the CDM validation and verification standard for project activities, Version 02.0, CDM Project Standard for project

activities, version 02.0, CDM project cycle procedure for project activities, version 02.0 and VCS program guideline and standard version 4.0

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. Verification team conducted remote audit due to pandemic situation and equipments, technical details and metering/monitoring arrangement verified through photos/certificate shared by PP. The verification team has reviewed all the documents like commissioning certificates, technical specification, O&M practices, JMR, invoices, training records, grievance registers 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, a remote audit was conducted due to pandemic situation and technical details and metering/monitoring arrangement verified through photos/certificate shared by PP 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 - Version 19” and the VCS standard.

1.4 Summary Description of the Project

The project activity involves installation and operation of a 250 MW wind power project in Tamil Nadu state of India. The project activity is promoted by M/s Mytrah Vayu (Sabarmati) Pvt. Ltd. and acting as project proponent. The commissioning details of the project and their location of installation are mentioned in the table below: -

Name of Investor	Capacity in MW	Commissioning Date	Connection with Grid	State	Usage
	128.79 MW	30-January-2019	Indian Grid	Tamil Nadu	

Mytrah Vayu (Sabarmati) Pvt. Ltd.	58.32 MW	16-April-2019			Sale to State DISCOMs
	62.89 MW	11-May-2019			

The monitoring period this VCS verification covered from 01-Decemeber-2019 to 31-March-2020 (inclusive of both dates) and the project activity is achieved 100,366 tCO₂e emission reductions during this monitoring period.

Assessment team checked the Commission of WTG 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 VERIFICATIONPROCESS

2.1 Method and Criteria

Verification Process: The project assessment is based on the “CDM validation and verification standard for project activities, Version 02.0 and “VCS standard and program guideline version 4.0” 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 against the registered PD and final validation report;
2. Follow-up interviews with project participant;
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 has 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. Denny Xue	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 1 submitted by the PP was reviewed against the approved methodology, registered PD, 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.

Follow-up interviews

A remote audit is conducted by Applus+ Certification. Audit team performed interviews, via video/telephone conferences with project stakeholders to confirm selected information 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 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.	R.	Ramesh Babu	Site Incharge	09-October–2020 (Remote Audit)	Project Implementation, JMR & invoicing procedure, calibration, grievance mechanism	Dr. Atul Takarkhede
2.	M.	Iyyapam	PP Representative		Management practices, data storage, QA/QC	

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
3.	Rao	Anjali	EKI Energy Services Limited		GHG calculations, MR and ER preparation, Data collection, data storage, QA/QC	

2.4 Site Inspections

Duration of on-site inspection: NA				
No.	Activity performed on-site	Site location	Date	Team member
1.	NA	NA	NA	NA

No physical verification was conducted by the DOE for this verification due to high threat of COVID-19 in entire state of India. Government of India has order nationwide lockdown from 25-March-2020 to 14-April-2020²³. Further extended to 03-May-2020⁴ and again extended up 17-May-2020⁵. Lockdown is further extended till 30-June-2020 with some relaxations⁶ and then unlock phases started. Furthermore, the VCS program does not explicitly mandate site visits as part of the validation and verification process during such unprecedented circumstances, only that VVBs must achieve a reasonable level of assurance on all validations and verifications (per section 4.1.2 of the VCS Standard, v4.0).

The DOE has taken alternative measures to reach reasonable level of assurance and conducted remote audit through video call & telephonic interview on 09-October-2020 (refer section 2.3) with the representative of PP and consultants. Further, during interview with PPs, the implementation of project activity and monitoring procedure and systems in place was confirmed. Technical specifications of the plant verified through the photographs/name plates of WTGs shared by PPs and the same was cross checked with the previous verification report.

After teleconference with PP representatives and verifying the photographs of WTGs and calibration certificates of meters, verification team confirmed that monitoring procedure is followed as per registered VCS PD and there is no change in technical specifications of

²<https://www.mha.gov.in/sites/default/files/MHAOrder%20copy.pdf>

³https://en.wikipedia.org/wiki/COVID-19_pandemic_in_India

⁴<https://www.mha.gov.in/sites/default/files/MHA%20DO%20letter%20dt.14.4.2020%20to%20Chief%20Secretaries%20and%20Administrators%20for%20strict%20implementation%20of%20Lockdown%20Order%20du%20ring%20extended%20period.pdf>

⁵<https://www.mha.gov.in/sites/default/files/MHA%20Order%20Dt.%201.5.2020%20to%20extend%20Lockdown%20period%20for%202%20weeks%20w.e.f.%204.5.2020%20with%20new%20guidelines.pdf>

⁶https://www.mha.gov.in/sites/default/files/MHAOrderDt_30052020.pdf

plants since installation and all the meters are calibrated in accordance with VCS PD and host country metering guidelines.

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 validation 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 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	00	00
Description of project activity	00	04	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
Emission reductions	00	01	00
Calibration details	00	00	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 2nd periodic verification of the project activity and no FAR was raised from validation or previous verification.

2.6 Eligibility for Validation Activities

This section is not applicable for present verification.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

This section is not applicable for present verification

3.2 Methodology Deviations

This section is not applicable for present verification

3.3 Project Description Deviations

PP has applied a permanent deviation in monitoring plan. The monitoring practice was updated in October 2018 and it's shifted to Deviation Settlement Mechanism (DSM). The export and import values are omitted and no longer provided, only net export values &/or deviation/scheduled energy are being provided to PP for the invoicing. In DSM, PP have to provide forecast electrical energy generation in day time blocks (In India, 15 minutes each block, total 96 blocks) well in advance to the state electricity board. The invoicing is done based on the forecasted value. The actual generation deviation from the forecasted values is penalized to PP, it depends upon the deviation magnitude. Therefore, instead of export and import values, the net values are directly obtained (either by including deviation to the schedule values or directly considering the actual values from the SRPC report) for the emission reduction calculation. The approach doesn't alter the emission reduction and its calculations.

For Sothern Region, Total Energy schedule and the Actual values (which is the actual Net delivered) is maintained by the Southern Regional Power Committee (SRPC) Secretariat, Central Electricity Authority, Government of India. Regional Energy Account (monthly net export) for every month in respect of Southern Region has been uploaded on the SRPC website, www.srpc.kar.nic.in. Furthermore, the net electricity supplied to the grid is provided by government nodal agency & available in public domain, hence no any cross-

checking is required. As this deviation have not impact on scale, methodology or additionality and onsite monitoring practices, assessment team accepted the same.

3.4 Grouped Project

The project is not a grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

During the remote audit interviews with PP & plant in-charge and subsequent document verification; commissioning certificates, PPA, JMR and invoices, it was concluded that the project is implemented as per the requirement of the registered VCD 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 250 MW (wind power project consisting of 50 Wind Turbine Generators (WTGs). The project is promoted by M/s MytrahVayu (Sabarmati) Pvt. Ltd. The purpose of the project activity is to generate clean electricity with utilization of wind energy. The WTG wise latitudes and longitudes are confirmed below:

Geo-coordinates of 250 MW Wind power project are as below:

SL. No	Location Name	Latitude	Longitude
1	MAN-322	8°58' 04.93"	77° 55' 00.64"
2	MAN-321	8°58' 24.09"	77° 55' 22.36"
3	MAN -222	8°57' 49.51"	77° 54' 36.21"
4	MAN-215	8°57' 04.03"	77° 53' 07.05"
5	MAN-323	8°57' 30.49"	77° 53' 08.89"
6	MAN-199	8°59' 57.17"	77° 52' 43.33"
7	MAN-324	8°56' 59.21"	77° 52' 17.266"
8	MAN-197	9°00' 44.43"	77° 52' 05.52"
9	MAN-319	8°59' 53.26"	77° 54' 48.26"
10	MAN-196	9°01' 06.79"	77° 52' 15.16"
11	MAN-328	9°01' 42.51"	77° 53' 41.77"
12	MAN-326	9°00' 17.87"	77° 54' 37.53"
13	MAN-320	8°58' 43.03"	77° 54' 41.61"
14	MAN-353	8°57' 22.58"	77° 54' 40.81"

SL. No	Location Name	Latitude	Longitude
15	MAN-380	8°57' 31.83"	77° 54' 14.29"
16	MAN-311	9°01' 24.09"	77° 53' 43.03"
17	MAN-312	9°01' 53.19"	77° 54' 49.58"
18	MAN-349	9°03' 04.87"	77° 55' 21.34"
19	MAN-361	9°02' 49.37"	77° 56' 49.38"
20	MAN-379	9°01' 40.26"	77° 52' 27.36"
21	MAN-350	9°02' 45.455"	77° 55' 46.40"
22	MAN-362	9°03' 10.15"	77° 56' 09.18"
23	MAN-345	9°02' 24.90"	77° 55' 26.67"
24	MAN-305	9°02' 15.08"	77° 51' 55.31"
25	MAN-340	9°00' 53.28"	77° 56' 03.52"
26	MAN-378	9°05' 18.50"	77° 56' 46.48"
27	MAN-304	9°02' 32.51"	77° 51' 27.31"
28	MAN-377	9°03' 59.32"	77° 57' 18.22"
29	MAN 356	9°01' 06.19"	77° 57' 49.32"
30	MAN-366	9°04' 34.66"	77° 55' 26.91"
31	MAN 314	9° 01' 20.72"	77° 57' 46.01"
32	MAN-159	8°59' 46.60"	77° 49' 42.66"
33	MAN-161	9°00' 26.84"	77° 49' 03.72"
34	MAN-160	9°00' 12.76"	77° 49' 41.56"
35	MAN-415	8°58' 58.96"	77° 50' 49.62"
36	MAN-412	8°58' 28.65"	77° 50' 15.30"
37	MAN-417	8°58' 16.30"	77° 50' 39.34"
38	MAN-388	8°57' 13.89"	77° 47' 52.29"
39	MAN-146	8°59' 53.96"	77° 48' 37.98"
40	MAN-280	8°58' 57.03"	77° 47' 35.55"
41	MAN-297	9°02' 00.42"	77° 49' 53.49"
42	MAN-189	9°01' 11.35"	77° 51' 03.61"
43	MAN-185	9°00' 54.47"	77° 50' 21.21"
44	MAN-184	9°00' 32.44"	77° 50' 27.81"
45	MAN-299	9°01' 52.73"	77° 50' 58.57"
46	MAN-301	8°58' 19.75"	77° 46' 48.29"
47	MAN 351	9°02' 01.39"	77° 57' 35.38"
48	MAN 194	9°01' 59.33"	77° 52' 34.78"
49	MAN 437	9°02' 18.69"	77° 56' 27.38"
50	MAN 370	9°04' 14.19"	77° 56' 41.50"
51	MAN 341	9°01' 20.09"	77° 56' 01.65"
52	MAN 416	8°58' 30.61"	77° 51' 13.21"
53	MAN 405	8°59' 22.95"	77° 49' 34.56"
54	MAN-201	8°58' 59.80"	77° 51' 36.21"
55	MAN-444	8°56' 44.56"	77° 50' 17.04"
56	MAN 398	8°56' 30.02"	77° 50' 08.32"

SL. No	Location Name	Latitude	Longitude
57	MAN-483	8°59' 28.03"	77° 47' 21.78"
58	MAN-486	8°59' 54.90"	77° 47' 24.90"
59	MAN-485	8°59' 42.49"	77° 47' 57.16"
60	MAN-480	8°58' 09.42"	77° 47' 16.54"
61	MAN-481	8°58' 25.50"	77° 47' 06.75"
62	MAN-443	9°01' 12.22"	77° 49' 11.56"
63	MAN 162	9°00' 41.42"	77° 48' 29.02"
64	MAN-127	9°01' 34.55"	77° 49' 55.41"
65	MAN 126	9°01' 48.64"	77° 49' 54.15"
66	MAN-494	9°02' 02.97"	77° 50' 29.70"
67	MAN-497	9°01' 01.99"	77° 48' 30.88"
68	MAN-17	8°50' 24.87"	77° 53' 28.09"
69	MAN-24	8°49' 27.46"	77° 54' 15.25"
70	MAN-22	8°50' 35.38"	77° 54' 09.83"
71	MAN-255	8°47' 46.68"	77° 49' 24.71"
72	MAN-253	8°47' 11.41"	77° 49' 48.05"
73	MAN-26	8°48' 49.65"	77° 53' 27.41"
74	MAN-55	8°51' 19.15"	77° 52' 42.76"
75	MAN-16	8°50' 33.64"	77° 52' 55.62"
76	MAN-79	8°50' 21.64"	77° 48' 48.32"
77	MAN-490	8°49' 58.53"	77° 50' 20.022"
78	MAN-20	8°48' 56.29"	77° 52' 57.64"
79	MAN-03	8°46' 42.12"	77° 51' 11.26"
80	MAN-04	8°46' 20.45"	77° 51' 21.36"
81	MAN-11	8°49' 49.58"	77° 52' 29.67"
82	MAN-02	8°48' 32.40"	77° 50' 59.91"
83	MAN 05	8°46' 10.74"	77° 50' 53.70"
84	MAN 82	8°47' 02.26"	77° 51' 32.44"
85	MAN 258	8°48' 50.75"	77° 48' 59.17"
86	MAN 264	8°49' 22.98"	77° 51' 50.30"
87	MAN 19	8°49' 43.94"	77° 53' 13.25"
88	MAN 115	8°50' 08.55"	77° 54' 35.45"
89	MAN 12	8°49' 25.81"	77° 52' 28.67"
90	MAN 13	8°49' 05.67"	77° 52' 16.91"
91	MAN 18	8°49' 07.25"	77° 54' 00.83"
92	MAN 10	8°50' 14.01"	77° 54' 05.67"
93	MAN 15	8°50' 54.31"	77° 53' 19.72"
94	MAN 498	8°45' 50.84"	77° 50' 44.16"
95	MAN 499	8°46' 23.84"	77° 51' 59.74"
96	MAN-158	8°59' 34.14"	77° 49' 09.56"
97	MAN-125	8°57' 53.07"	77° 46' 41.11"
98	MAN-136	9°00' 17.13"	77° 4' 53.96"

SL. No	Location Name	Latitude	Longitude
99	MAN-491	9°02' 30.79"	77° 53' 51.52"
100	MAN-492	9°02' 19.48"	77° 53' 09.58"
101	MAN-488	9°00' 24.42"	77° 51' 32.88"
102	MAN-493	9°00' 52.89"	77° 50' 57.94"
103	MAN-355	8°58' 03.78"	77° 48' 57.02"
104	MAN-500	8°54' 35.50"	77° 49' 39.38"
105	MAN-501	8°54' 09.24"	77° 50' 10.31"

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

Assessment team checked the commissioning certificate and confirmed that the dates of Commission for the WTGs are correct. Assessment team also conform during interview with the PP representatives that there is no change in project design and the project is implemented as per the description provided in the VCS PD. The commissioning dates of WTGs are provided below:

Name of Investor	Capacity	Commissioning Date
Mytrah Vayu (Sabarmati) Pvt. Ltd.	128.79 MW	30-January-2019
	58.32 MW	16-April-2019
	62.89 MW	11-May-2019

The project boundary includes the electricity generation equipment at the project site, sub-station and the NEWNE grid (now Indian grid).

Assessment team also checked the Technical details of the WTGs installed onsite from documents submitted by PP and previous verification reports. The same is cross checked from the photographs of the number plates, module capacity etc. submitted by PP & also cross checked from the technical details from Manufacturer.

The brief technical details of the WTG are as follows:

Technical details of WTG

Rotor	
Maximum Power Out	2400 kW
Diameter	116 m
No of blades	3
Swept area	10.568 m ²
Rated wind speed	11 m/s
Rotor speed range	7.67 to 15.68 rpm
Rotational direction	Clockwise looking downwind
Tip speed @ rated power	85.4 m/s
Orientation	Upwind

Speed regulation	Pitch Control
Aerodynamics brakes	Full feathering

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 is followed onsite. All the emergency preparedness as mentioned in the registered PD is followed onsite and no discrepancies were found regarding the same. Meters are calibrated as per calibration frequency in registered VCS PD. All the emergency preparedness as mentioned in the registered VCS PD is followed onsite and no discrepancies were found regarding the same.

Assessment team confirms following during the verification remote audit:

1. Start date of the project activity is 30-Janaury-2019 as mentioned in the registered VCS PD.
2. An undertaking letter dated 28-September-2020 has been submitted by PP for double counting with any other GHG program. PP also has given a written declaration that project has not claimed other form of GHG credit for the concerned monitoring period. Assessment team also checked that the projects are not registered under the REC mechanism of India and the same can be cross-checked at <https://recregistryindia.nic.in>. PP has given a written declaration that the credit claimed under VCS for the current monitoring period is not claimed under any other GHG mechanism.
3. Assessment team confirms that this is the 2nd monitoring under VCS and covers the activity from 01-December-2019 to 31-March-2020 (inclusive of both dates). The project activity adopts renewable crediting period of 10 years period and can be renewed for maximum 2 times. 30-January-2019 is the start date and 29-Janaury-2029 will be end date of the crediting period.

The GHG credits from 01-Decemeber-2019 to 31-March -2020 will be claimed under VCS only. At any point of time during the crediting period, the project proponent will abide by the "Double Counting".

4. Assessment team checked and found that the Project proponent of the project activity is as below for the current monitoring period:

Organization name	M/s Mytrah Vayu (Sabarmati) Pvt. Ltd
Contact person	Mr. Santosh Kotti
Title	Assistant Manager
Address	1st Floor, 8001, 8th Floor, Q-City, Nanakramguda, Gachibowli Hyderabad 500032, Telangana, INDIA
Telephone	+91 9655967839
Email	santosh.kotti@mytrah.com

5. Assessment team also checked the details of other entity and found correct. The details are as below:

Organization name	EKI Energy Services Limited
Role in the Project	Project Consultant
Contact person	Anjali Rao
Title	Project Manager
Address	Office No 201, Plot No 48, Scheme 78, Vijay Nagar Part- II, Indore 452010, India
Telephone	+91 9109120940
Email	anjali@enkingint.org

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 100,366 tCO₂e is 40.7 % lower than the estimated emission reductions higher than the estimated emission reduction 169,252 tCO₂e (506,370 tCO₂e/365 days x 122 days) during this monitoring period which is due to lower wind flow pattern and low PLF attained by the wind power plant during the current monitoring period.

SUSTAINABLE DEVELOPMENT:

Ministry of Environment & Forests, Government of India has stipulated following indicators for sustainable development in the interim approval guidelines for GHG projects.

Social well-being: The project activity have resulted in creating job opportunities for the local population on temporary and permanent basis. Manpower is required both during erection and operation of the renewable energy projects. This results in the improvement in living standards of the local community. The installation of the renewable energy projects also led to development of basic infrastructure like roads, communication with the nearby cities etc. which also improved in living standards of the local population.

Economic well-being: The project activity have created direct and indirect job opportunities to the local community during installation and operation of the renewable energy projects. The investment for the project activity has led to the improvement in the economic activity in the local area.

Technological well-being: The successful operation of project activity has led to promotion of wind power generation and would encourage other entrepreneurs to participate in similar projects.

Environmental well-being:

The project activity utilizes renewable energy for generating electricity which otherwise would have been generated through alternate fuel (most likely - fossil fuel) based power plants, contributing to reduction in specific emissions (emissions of pollutant/unit of energy generated) including GHG emissions. As renewable energy projects produce no end products in the form of solid waste (ash etc.), they address the problem of solid waste disposal encountered by most other sources of power. Being a renewable resource, to generate electricity contributes to resource conservation. Thus the project causes no negative impact on the surrounding environment.

In view of the above, the PP has considered that the project activity profoundly contributes to the sustainable development.

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 2013⁷. This report clearly mentioned that solar/Wind power project activity operations do not result in direct air pollution, noise pollution. Moreover, also as per the Central Pollution Control Board of India notification⁸ solar/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 on-going stakeholder's communication, PP have maintained feedback/complaint register 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

⁷ <https://smartnet.niua.org/sites/default/files/resources/report-on-developmental-impacts-of-RE.pdf>

⁸ http://envfor.nic.in/sites/default/files/Latest_118_Final_Directions.pdf

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. 4.0 and appropriate actions taken time to time by PP.

Assessment team checked the grievance register 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.

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.
Findings	CAR 05 was raised during the verification process and closed successfully. Please refer Appendix 2 of this report for the detail closure of the CAR.
Conclusion	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 would be the 'Indian Grid' Formula Used:- $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ Where BE_y = Baseline Emissions (tCO₂/year) $EG_{PJ,y}$ = Quantity of net electricity generation supplied by the project (Wind) plant/unit to the grid in year y $EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the "Tool to calculate the emission factor for an electricity system" (tCO₂/MWh) Ex-ante parameters: 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. Combined margin CO₂ emission factor

	($EF_{grid,CM,y}$) is equal to 0.9368 tCO₂/MWh. The calculation approach was in line with the VCS PD. Values are as follows: $EF_{grid,OM,y} = 0.9610$ tCO₂/MWh $EF_{grid,BM,y} = 0.8644$ tCO₂/MWh $EF_{grid,CM,y} = 0.9368$ tCO₂/MWh <u>Ex-post parameter:</u> As per the registered monitoring plan and requirement of the registered methodology following parameters needs to be monitored: $EG_{PJ,y}$ (Quantity of net electricity generation supplied by the project (wind) plant /unit to the grid during the monitoring period. The value of the net electricity generation supplied by the project activity is directly sourced from the “Deviation Settlement Account document” issued by Southern Regional Power Committee (SRPC). Electricity exported by the project to grid at project site switch yard is the actual generation recorded and monitored by the metering system installed at the project site switch yard. The metering system comprises of three individual special energy meters (SEMs) (acts as standby meters) installed at the power station, for each generating unit. These are connected via four transmission lines of 220 kV, each having its own SEM meter (main meter and check meter). PP has applied a permanent deviation in monitoring plan. The monitoring practice was updated in October 2018 to Deviation Settlement Mechanism (DSM). The export and import values are omitted and no longer provided, only net export values are being provided to PP for the invoicing. In DSM, PP have to forecast electrical energy generation in day time blocks (In India, 15 minutes each block, total 96 blocks) well in advance. The invoicing is done on the forecasted value. The actual generation deviation from the forecasted values is penalized to PP, it depends upon the deviation magnitude. Therefore, instead of export and import values, the net values are directly obtained (either by including deviation to the schedule values or directly considering the actual values from the SRPC report) for the emission reduction calculation. The approach doesn’t alter the emission reduction and its calculations. For Sothern Region, Total Energy schedule and the Actual values (which is the actual Net delivered) is maintained by the Southern Regional Power Committee (SRPC) Secretariat, Central Electricity Authority, Government of India. Regional Energy Account (monthly net export) for every month in respect of Southern Region has been uploaded on the SRPC website, www.srpc.kar.nic.in. Furthermore, the net electricity
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	supplied to the grid is provided by government nodal agency, hence no any cross-checking is required The net electricity supplied the grid by the project activity during the monitoring period is 107,139.04 MWh. The verification team has checked the entire monthly “deviation settlement account” reports for the net electricity generated & supplied to the grid and cross checked the invoices raised by the PP to the state Utilities which is the scheduled power being feed into the grid for the monitoring period. 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, 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. BEy baseline emissions, tCO₂e $BEy = 107,139.04 \text{ MWh} \times 0.9368 \text{ tCO}_2\text{e/MWh}$ $= 100,366 \text{ tCO}_2\text{e (rundown values)}$ As per applied methodology ACM0002, version 19.0 and the VCS PD, project emission is considered zero as the project activity involved wind power generation. Leakage: As per applied methodology ACM0002, version 19.0 and VCS PD Leakage emissions are not considered for the project activity. Hence, ERy= BEy - PEy= 100,366 - 0= 100,366 tCO₂e (rundown values) Verification team confirms that the monitoring has been carried out in accordance with the monitoring plan contained in the registered VCS PD.
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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	No finding in this section.
Conclusion	The metering arrangement is special Energy Meters tri-vector bi-directional energy meters of Secure Make; accuracy class 0.2s (main and check) at the State Electricity Board (SEB) substation. These meters record several parameters including electricity exported & imported. These electricity meters are being used by state electricity board for monthly generation reports. 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. On-site photographs and

	interview during remote audit with O&M personnel also confirms the same. During commissioning of the WTGs monitoring meters of accuracy class i.e. 0.2s were installed. The meters are monitored continuously & cumulative readings are taken at the end of the month by joint meter reading procedure. These are sealed by State Utilities to avoid malfunctioning with meter readings. Meter is calibrated once in 5 years by the meter testing division of the state utility in the presence of O&M Contractor / investor's representatives and State Utilities officials to ensure the working of meter within permissible limits. 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 complied. Thus, no delayed calibration is observed and thus the same is found appropriate. The break down log is checked and there is no major breakdown during the monitoring period. No unforced error observed.
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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 by M/s Mytrah Vayu (Sabarmati) Pvt. Ltd to perform the 2nd periodical verification of the "250 MW Wind Power Project by Mytrah Energy".

The management of M/s Mytrah Vayu (Sabarmati) Pvt. Ltd 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 VCS PD and the applied methodology ACM0002 - Version 19.0

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 PD
- 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-December-2019 to 31-March-2020 (inclusive of both days)

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

Year	Baseline emissions or removals (tCO ₂ e) ⁹	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01-Decemeber-2019 to 31-December-2019	29,248	0	0	29,248
01-January-2020 to 31-March-2020	71,118	0	0	71,118
Total	100,366	0	0	100,366

⁹Rounddown values

APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED (VERIFICATION)

No.	Author	Title	References to the document	Provider
1.	NA	Commissioning certificates of the WTGs	Letter dated 16-October-2019	PP
2.	NA	Contract of the project participant with the DOE	Contract document signed between PP and DOE	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/2020	NA	PP
5.	NA	Calibration Certificates of energy meters	Test certificates for testing on 15-June-2016, 16-June-2016 17-June-2016 25-October-2018	PP
6.	NA	MR version 01	28-September-2020	PP
		MR version 02	12-Novemeber-2020	
7.	NA	Emission reduction sheet version 01	28-September-2020	PP
		Emission reduction sheet version 02	12-Novemeber-2020	
8.	NA	O & M Agreement	-	PP
9.	NA	Power Purchase Agreement (PPA)	-	PP
10.	NA	Tools/ guidelines used in the project activity - Glossary of CDM terms version 07 - VCS standard Version 4.0 - VCS Program Guide 4.0 - VCS verification report template version 4.0	UNFCCC CDM/VCS web site	UNFCCC
11.	NA	Monthly statement- JMR & invoices for the complete monitoring period	-	PP
12.	NA	Declaration regarding no participation in other GHG program for the concerned monitoring period	28-September-2020	PP
13.	NA	Breakdown details for the monitoring period	-	PP
14.	NA	Employment records for plant persons	-	PP
15.	NA	Grievance Register maintained at site	-	PP

No.	Author	Title	References to the document	Provider
16.	NA	CDM validation and verification standard for project activities, Version 02.0	-	UNFCCC
17.	NA	Verification Reports for previous VCS verification	ESPL Mytrah-PL-2020 Version 01 dated 24-12-2019.	PP
18.	NA	Breakdown details of the power plant	-	PP

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

Table 3. CAR from this verification

CAR ID	01	Section no.	4.1	Date: 06-November-2020
Description of CAR				
1. Project summary in Section 1.1 of MR is not as per guidance in MR template. 2. Name of PP in Section 1.3 of MR is not consistent with the VCS PD Corrective action is sought.				
Project participant response				Date: 12-November-2020
1. The Project Summary in section 1.1 of the MR has revised in this submission. 2. Name of the PP in section 1.3 of MR has now been rectified and is made consistent with VCS PD.				
Documentation provided by project participant				
VCS MR V02				

DOE assessment	Date: 30-November-2020
1. PP has rectified the Section 1.1 of MR v.02 dated 12/November/2020, as per the Guidance in MR Template. 2. PP has rectified the name of PP in MR v.02 dated 12/November/2020, found consistent with the VCS PD. Thus CAR 01 closed.	

CAR ID	02	Section no.	4.1	Date: 06-November-2020
Description of CAR				
During the review of documents submitted by PP, it was found that the following documents are missing; 1. Technical specification of the WTGs 2. Power Purchase agreement for the project activity 3. O & M Agreement 4. Commissioning Certificates of WTGs PP is requested to provide the above documents to assessment team				
Project participant response				Date: 12-November-2020
The requested documents are now submitted to the assessment team.				
Documentation provided by project participant				
Technical specification of WTGs, Power Purchase agreement for the project activity, o & M Agreement and Commissioning Certificates of WTGs				
DOE assessment				Date: 30-November-2020
PP has submitted following documents in order to assess the monitoring report as per the required guidelines: 1) Technical Specification of Turbine (Model GE2.4-116-94m-50hz) 2) PPA between Mytrah Vayu (Sabarmati) Pvt. Ltd and PTC India Limited, dated July 2017 3) O & M agreement between Mytrah Vayu (Sabarmati) Pvt Ltd and Mytrah Energy (India) Pvt Ltd, dated 19 th April 2017 4) Commissioning Certificate of 250 MW ISTS-connected Wind Power project of M/s Mytrah Vayu (Sabarmati) Pvt Ltd, dated 16 th October 2019. CAR 02 Closed.				

CAR ID	03	Section no.	4.1	Date: 06-November-2020
Description of CAR				
Geo coordinates of WTGs in Section 1.7 of MR is not as per registered VCS PD. Corrective action is sought.				
Project participant response				Date: 12-November-2020
Geo coordinates of WTGs in section 1.7 of the MR has now been updated				
Documentation provided by project participant				
VCS MR V02				
DOE assessment				Date: 30-November-2020

PP has rectified the Geo Coordinates of WTGs in Section 1.7 of MR v.02 dated 12/November/2020, Same found consistent with registered VCS PD. Thus, accepted
CAR03 closed.

CAR ID	04	Section no.	4.1	Date: 06-November-2020
Description of CAR				
The breakdown details of the WTGs are missing in the MR. Further, supporting document regarding the breakdown details are not provided to the assessment team. Corrective action is sought.				
Project participant response				Date: 12-November-2020
Breakdown details are now being updated in VCS MR V02 and also supporting for the same has been provided.				
Documentation provided by project participant				
VCS MR V02 & Breakdown details sheet				
DOE assessment				Date: 30-November-2020
PP has submitted the breakdown details of WTGs in the MR v.02 dated 12/November/2020, found consistent with the breakdown details sheet thus accepted. CAR04 closed				

CAR ID	05	Section no.	4.2.2	Date: 06-November-2020
Description of CAR				
PP is requested to provide a copy grievance register for verification.				
Project participant response				Date: 12-November-2020
<i>Copy of grievance register has been attached in this submission</i>				
Documentation provided by project participant				
<i>Copy of grievance register</i>				
DOE assessment				Date: 30-November-2020
PP has successfully submitted copies of grievance register to the assessment team for the purpose of verification. CAR 05 closed				

Accuracy of GHG Emission Reduction and Removal Calculations

CAR ID	06	Section no.	4.4	Date: 06-November-2020
Description of CAR				
In ER sheet, emission reduction is not rounded down vintage wise. Corrective action is sought.				
Project participant response				Date: 12-November-2020
In ER sheet, round down has been applied for Vintage wise calculations and revised ER sheet is now being submitted.				
Documentation provided by project participant				

ER calculation sheet	
DOE assessment	Date: 30-November-2020
PP has rounded down the calculations of the Emission Reduction sheet, found consistent thus accepted.	
CAR 06 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	No	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	Xue	Deny	Applus+ Certification
2.	Approver	IR	Sendin	Juan	Applus+ Certification B.U. Managing Director

Short CVs of the Team:

- Dr. Atul Takarkhede counts with 9 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. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. He has Ph.D. (Environmental Science) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical reports related to environmental science.
- Mr. Denny Xue (Master's Degree in Environmental Engineering, Bachelor's Degree in Thermal 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 technical review with Applus+. Before he joined Applus+ LGAI, he has been working for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development.

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 OF THE METERS

Meter Sl. No.	Make	Class	Meter calibration date	Calibration Validity	Installed at location
SA0013A, SA0014A, SA0015A, SA0016A	Secure	0.2 s	15-June-2016	14-June-2021	230/33 kV Maniyachi Pooling Sub-station.
SA0012A,	Secure	0.2 s	16-June-2016	15-June-2021	
SA0011A,	Secure	0.2 s	17-June-2016	16-June-2021	

APPENDIX 6: DETAILS OF REMOTE AUDIT & SITE PHOTOGRAPHS



