



BUNDLED WIND POWER PROJECT BY MYTRAH GROUP



Document Prepared By

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

Project Title	Bundled Wind Power Project by Mytrah Group
Version	03 (VERRA Accuracy Review Response)
Report ID	Internal project ID: 19220

Report Title	Bundled Wind Power Project by Mytrah Group
Client	Mytrah Energy (India) Limited
Pages	62
Date of Issue	07-April-2021
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Summary:

Verification purpose: LGA Technological Center S.A. (Applus+ Certification) (Hereafter referred as Applus+ Certification) has been appointed by “Mytrah Energy (India) Limited” to perform the 3rd periodic verification of the “Bundled Wind Power Project by Mytrah Group” (VCS ID 1728). 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 total capacity of the bundled project activity is 493.5 MW out of which 466.4 MW has been commissioned till to this monitoring period. The bundled project activity is located in 4 states i.e. Andhra Pradesh, Madhya Pradesh, Rajasthan and Telangana of India. The generated electricity from the bundled project activity is exported to the regional grid system which is under purview of the Indian grid.

Start date of the project activity is the 30-December-2015. The monitoring period for this VCS verification is 01-August-2019 to 31-March-2020 (including both days) and the project activity achieved 534,957 tCO_{2e} emission reductions during this monitoring period thereon displacing 554,193 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 LGA 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/WTGs 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 3rd periodic verification of the “Bundled Wind Power Project by Mytrah Group” 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 17.0”
- the project’s monitoring plan is assessed against “ACM0002 - Version 17.0”
- 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 17. 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 17. 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 equipment's, 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 17" and the VCS standard.

1.4 Summary Description of the Project

The bundled project activity involves installation of total 493.5 MW. The project is promoted by Mytrah Energy (India) Limited with different SPVs. The site details of bundled project activity including location, PPs, and project capacity are provided below.

S. No.	Project site	Location (State)	Project Participants	Project Capacity (MW)
1	Bhesada	Rajasthan	Mytrah Vayu (Indravati) Pvt. Ltd.	8.4
2	Pottipadu	Andhra Pradesh	Mytrah Vayu (Indravati) Pvt. Ltd.	105
3	Nidhi	Rajasthan	Mytrah Vayu (Som) Pvt. Ltd.	90
4	Nipaniya	Madhya Pradesh	Mytrah Vayu (Som) Pvt. Ltd.	30

5	Nazeerabad	Telangana	Mytrah Vayu (Godavari) Pvt. Ltd.	100.8
6	Burgula-II	Andhra Pradesh	Mytrah Vayu (Krishna) Pvt. Ltd.	10.4
7	Aspari	Andhra Pradesh	Mytrah Vayu (Tungabhadra) Pvt. Ltd.	148.9
	Total			493.5

Out of the total capacity 493.5 MW, a total 466.4 MW has been commissioned till to this monitoring period. The commissioning details of the WTGs have been mentioned in the section 4.0 of this report. The commissioning of balance capacity 27.1 MW is under process.

The monitoring period this VCS verification covered from 01-August-2019 to 31-March-2020 (inclusive of both dates) and the project activity is achieved 534,957 tCO_{2e} 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 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 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 applicable sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed an assessment team in compliance with the Contract Review and Assessment Team appointment rules in the internal Quality Management System of Applus+ Certification as well as in compliance with the applicable requirements in the Accreditation Standard.

The composition of the Assessment Team has been approved by Applus+ Certification during the Contract Review process ensuring that the required skills and capabilities are covered.

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

- Lead Auditor (LA).
- Auditor (A).
- Technical Expert (TE).
- Technical Reviewer (TR).
- Any of the above mentioned roles in training (iT, e.g. AiT for auditor in training).

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

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 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 04 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

A remote audit was conducted for the project activity on 13-Novemeber-2020. Remote audit was conducted due to on-going COVID-19 pandemic situation in the entire state of India. Taking into account the rules of relevant national and local authorities (local to the DOE offices as well as to locality of the site visits), World Health Organization (WHO) recommendations, policies of the DOE and other relevant travel restrictions and guidance (for example, a requirement to self-isolate upon return). Moreover, The VCS Program does not explicitly mandate site visits as part of the validation and verification process, 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 VVB has taken alternative measures to reach reasonable level of assurance and conducted remote audit through Skype/Telephone with site personal & consultant (refer section 2.3) with the PP representative. This is also in line with the COVID-19 travel guidance for projects of VERRA.

Technical details & metering/monitoring arrangement verified through onsite photographs/name plates and calibration certificates shared by PP. All the documents were cross checked to ensure conservative estimation of emission reduction.

During the remote audit, the PP representatives were questioned about the implementation of the project activity. Several topics like the verification of commissioning date of meters, the generation, recording, and monitoring of the data and the error accountability were discussed. To cross check the information provided by PP, various documents like technical specifications, commissioning certificates, PPA, JMR sheets, invoice, calibration certificates, s, etc. were also verified. The names of the persons interviewed during remote audit through Zoom & telephonic interview is given below;

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Desiti	Jubaraja	Site Incharge	13-Novemeber-2020 (Via Skype)	Project Implementation, JMR & invoicing procedure, calibration, grievance mechanism	Dr. Atul Takarkhede
2.	-	Anjaneyuly	Site Incharge		Management practices, data storage, QA/QC	
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: 13-November-2020 (Via Skype)				
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.	Rajasthan, Madhya Pradesh, Andhra Pradesh and Telangana States, India (via Skype)	13-November-2020 (Via Skype)	Dr. Atul Takarkhede

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 04 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			

Areas of validation and verification findings	No. of CL	No. of CAR	No. of FAR
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 3rd 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

Project activity has not participated under other GHG or REC program.

3.2 Methodology Deviations

This section is not applicable for present verification

3.3 Project Description Deviations

PP has applied one deviation in monitoring plan. The total project capacity is 493.5 MW out of which 466.4 MW is commissioned till date and 27.1 MW is still under process. Delay in commissioning is due to the regulatory issues and not in control of the PPs. This

is also approved in previous verification. The deviation is appropriately described in the monitoring report. The deviation doesn't impact the applicability of the methodology, additionality of the project activity and is in accordance with the VCS standard version 4.0.

As the applied deviation is valid and do not have impact on the scale, methodology, additionality and monitoring of the project activity and thus accepted by the assessment team.

3.4 Grouped Project

This is not a grouped project activity. Thus, not applicable.

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/technical breakdowns are observed as per the manufacturers' specification which is acceptable to the assessment team. The continue operation of the project activity except breakdowns is evident from JMRs.

The total capacity of the bundled project activity is 493.5 MW out of which 466.4 MW has been commissioned till this period verification. The commissioning of the balance 27.1 MW is under process. The same was verified through commissioning certificates. The details of bundled project activity is given below:

Sl. No.	Name of the SPVs	Project Site	Location (State)	Project Capacity (MW)	Commissioned Capacity (MW)
1	Mytrah Vayu (Indravati) Pvt. Ltd.	Bhesada	Rajasthan	8.4	8.4
2	Mytrah Vayu (Indravati) Pvt. Ltd.	Pottipadu	Andhra Pradesh	105	105
3	Mytrah Vayu (Som) Pvt. Ltd.	Nidhi	Rajasthan	90	62.9
4	Mytrah Vayu (Som) Pvt. Ltd.	Nipaniya	Madhya Pradesh	30	30

5	Mytrah Vayu (Godavari) Pvt. Ltd.	Nazeerabad	Telangana	100.8	100.8
6	Mytrah Vayu (Krishna) Pvt. Ltd.	Burgula-II	Andhra Pradesh	10.4	10.4
7	Mytrah Vayu (Tungabhadra) Pvt. Ltd.	Aspari	Andhra Pradesh	148.9	148.9
Total				493.5	466.4

The WTG wise latitudes and longitudes are confirmed below:

The location details for the Bhesada project site:

WTG Location No	Village	District	Latitude (N)	Longitude (E)
RSA 126	Naya luna kalan	Jaisalmer	26.6985	71.4897
RSA 128	Naya luna kalan	Jaisalmer	26.6859	71.4923
RSA 286	Pratap pura	Jaisalmer	26.5989	71.6356
RSA 280	Khuda	Jaisalmer	26.6027	71.6137

The location details for the Pottipadu project site:

WTG Location No	Village	District	Latitude (N)	Longitude (E)
PPD-045	Pottipadu	Anantapur	15.0403	77.3681
PPD-046	Pottipadu	Anantapur	15.0442	77.3645
PPD-047	Pottipadu	Anantapur	15.0483	77.3662
PPD-058	Pottipadu	Anantapur	15.0478	77.3818
PPD-076	Pottipadu	Anantapur	15.0515	77.4067
PPD-077	Pottipadu	Anantapur	15.0559	77.3951
PPD-078	Pottipadu	Anantapur	15.0602	77.3949
PPD-081	Pottipadu	Anantapur	15.0731	77.3780
PPD-082	Pottipadu	Anantapur	15.0793	77.3781
PPD-084	Pottipadu	Anantapur	15.0720	77.4075
PPD-085	Pottipadu	Anantapur	15.0673	77.4060
PPD-052	Gulyapalyam	Anantapur	15.0712	77.3578
PPD-055	Gulyapalyam	Anantapur	15.0603	77.3668
PPD-056	Vajrakarur	Anantapur	15.0567	77.3694
PPD-057	Vajrakarur	Anantapur	15.0532	77.3721
PPD-001	Gadehothur	Anantapur	15.0324	77.3214
PPD-002	Gadehothur	Anantapur	15.0274	77.3169
PPD-005	Gadehothur	Anantapur	15.0123	77.3205
PPD-006	Gadehothur	Anantapur	15.0086	77.3231
PPD-011	Pottipadu	Anantapur	15.0308	77.3411
PPD-012	Pottipadu	Anantapur	15.0354	77.3414
PPD-013	Pottipadu	Anantapur	15.0393	77.3407
PPD-014	Pottipadu	Anantapur	15.0442	77.3287
PPD-015	Pottipadu	Anantapur	15.0520	77.3317
PPD-016	Vajrakarur	Anantapur	15.0378	77.3228
PPD-038	Ganjikunta	Anantapur	15.0150	77.3756
PPD-039	Tatrakallu	Anantapur	15.0078	77.3709
PPD-040	Vajrakarur	Anantapur	15.0014	77.3654

WTG Location No	Village	District	Latitude (N)	Longitude (E)
PPD-060	Vajrakarur	Anantapur	15.0378	77.3899
PPD-061	Vajrakarur	Anantapur	15.0347	77.3933
PPD-062	Vajrakarur	Anantapur	15.0266	77.3957
PPD-063	Vajrakarur	Anantapur	15.0304	77.3946
PPD-064	Vajrakarur	Anantapur	15.0206	77.3980
PPD-073	Vajrakarur	Anantapur	15.0366	77.4091
PPD-074	Vajrakarur	Anantapur	15.0416	77.4102
PPD-075	Kamalapadu	Anantapur	15.0462	77.4074
PPD-049	Konakondla	Anantapur	15.0811	77.3511
PPD-050	Konakondla	Anantapur	15.0768	77.3517
PPD-053	Gulyapalyam	Anantapur	15.0669	77.3609
PPD-054	Gulyapalyam	Anantapur	15.0659	77.3696
PPD-027	Gulyapalyam	Anantapur	15.0637	77.3432
PPD-028	Gulyapalyam	Anantapur	15.0577	77.3453
PPD-029	Vajrakarur	Anantapur	15.0537	77.3471
PPD-030	Vajrakarur	Anantapur	15.0492	77.3496
PPD-031	Vajrakarur	Anantapur	15.0446	77.3500
PPD-032	Vajrakarur	Anantapur	15.0361	77.3539
PPD-033	Vajrakarur	Anantapur	15.0319	77.3562
PPD-034	Vajrakarur	Anantapur	15.0272	77.3528
PPD-035	Vajrakarur	Anantapur	15.0207	77.3548
PPD-044	Vajrakarur	Anantapur	15.0322	77.3748

The location details for the Nidhi project site:

WTG Location No	Village	District	Latitude (N)	Longitude (E)
NDH-001	Habur	Jaisalmer	27.1770	70.6009
NDH-002	Habur	Jaisalmer	27.1712	70.6035
NDH-003	Habur	Jaisalmer	27.1687	70.6069
NDH-004	Habur	Jaisalmer	27.1646	70.6093
NDH-005	Habur	Jaisalmer	27.1606	70.6123
NDH-006	Habur	Jaisalmer	27.1562	70.6147
NDH-007	Habur	Jaisalmer	27.1520	70.6182
NDH-008	Habur	Jaisalmer	27.1480	70.6210
NDH-009	Habur	Jaisalmer	27.1426	70.6231
NDH-010	Habur	Jaisalmer	27.1403	70.6258
NDH-011	Habur	Jaisalmer	27.1340	70.6296
NDH-012	Habur	Jaisalmer	27.1306	70.6328
NDH-013	Habur	Jaisalmer	27.1264	70.6457
NDH-014	Habur	Jaisalmer	27.1303	70.6428
NDH-015	Habur	Jaisalmer	27.1401	70.6367
NDH-016	Habur	Jaisalmer	27.1439	70.6337
NDH-017	Habur	Jaisalmer	27.1484	70.6290
NDH-018	Habur	Jaisalmer	27.1540	70.6268
NDH-019	Habur	Jaisalmer	27.1575	70.6242
NDH-020	Habur	Jaisalmer	27.1616	70.6214

WTG Location No	Village	District	Latitude (N)	Longitude (E)
NDH-021	Habur	Jaisalmer	27.1657	70.6191
NDH-022	Habur	Jaisalmer	27.1701	70.6160
NDH-023	Habur	Jaisalmer	27.1741	70.6130
NDH-024	Habur	Jaisalmer	27.1792	70.6095
NDH-025	Habur	Jaisalmer	27.1827	70.6066
NDH-026	Habur	Jaisalmer	27.1856	70.6040
NDH-027	Habur	Jaisalmer	27.1531	70.6382
NDH-028	Habur	Jaisalmer	27.1490	70.6412
NDH-029	Habur	Jaisalmer	27.1437	70.6439
NDH-030	Habur	Jaisalmer	27.1409	70.6470
NDH-031	Habur	Jaisalmer	27.1359	70.6493
NDH-032	Habur	Jaisalmer	27.1321	70.6526
NDH-033	Habur	Jaisalmer	27.1283	70.6552
NDH-034	Habur	Jaisalmer	27.1242	70.6571
NDH-035	Habur	Jaisalmer	27.1139	70.6741
NDH-036	Habur	Jaisalmer	27.1174	70.6718
NDH-037	Habur	Jaisalmer	27.1216	70.6693
NDH-038	Habur	Jaisalmer	27.1256	70.6667
NDH-039	Habur	Jaisalmer	27.1287	70.6636
NDH-040	Habur	Jaisalmer	27.1337	70.6390
NDH-041	Habur	Jaisalmer	27.1331	70.6707
NDH-042	Habur	Jaisalmer	27.1289	70.6744
NDH-043	Habur	Jaisalmer	27.1266	70.6777
NDH-044	Habur	Jaisalmer	27.1192	70.6606
NDH-045	Habur	Jaisalmer	27.1351	70.6808
NDH-046	Habur	Jaisalmer	27.1407	70.6771
NDH-047	Habur	Jaisalmer	27.1431	70.6942
NDH-048	Habur	Jaisalmer	27.1398	70.6974
NDH-049	Habur	Jaisalmer	27.1357	70.7002
NDH-050	Habur	Jaisalmer	27.1306	70.7023
NDH-051	Habur	Jaisalmer	27.1267	70.7054
NDH-052	Habur	Jaisalmer	27.1358	70.7070
NDH-053	Habur	Jaisalmer	27.1430	70.7026

The location details for the Nipaniya project site:

WTG Location No	Village	District	Latitude (N)	Longitude (E)
NPY-P-58	Jamuniya	Mandsaur	24.2041	75.6108
NPY-P3-41	Dhamniya Diwan	Mandsaur	24.1484	75.6209
NPY-P3-114	Nariya Bujurg	Mandsaur	24.2625	75.6194
NPY-P3-116	Manpura	Mandsaur	24.2537	75.6161
NPY-P3-117	Nariya Bujurg	Mandsaur	24.2484	75.6159

WTG Location No	Village	District	Latitude (N)	Longitude (E)
NPY-P3-120	Aakli Shivdas	Mandsaur	24.2349	75.6133
NPY-P3-127	Sagoriya	Mandsaur	24.2197	75.6075
NPY-P-59	Sagoriya	Mandsaur	24.2145	75.6107
NPY-P3-157	Jamuniya	Mandsaur	24.2073	75.6093
NPY-P3-112	Bardiya Amra	Mandsaur	24.2740	75.6223
NPY-P3-124	Jamuniya	Mandsaur	24.2257	75.5991
NPY-P3-154	Guradiyamata	Mandsaur	24.2361	75.6432
NPY-P3-119	Manpura	Mandsaur	24.2300	75.5993
NPY-P-51	Barkheda Uda	Mandsaur	24.1654	75.6055
NPY-P3-128	Sagoriya	Mandsaur	24.2174	75.6098

The location details for the Nazeerabad project site:

WTG Location No	Village	District	Latitude (N)	Longitude (E)
NRB01	Nazeerabad	Rangareddy	17.2224	77.9471
NRB02	Nazeerabad	Rangareddy	17.2187	77.9479
NRB03	Nazeerabad	Rangareddy	17.2162	77.9491
NRB04	Nazeerabad	Rangareddy	17.2129	77.9502
NRB05	Nazeerabad	Rangareddy	17.2099	77.9513
NRB06	Nazeerabad	Rangareddy	17.2068	77.9510
NRB07	Nazeerabad	Rangareddy	17.2040	77.9518
NRB11	Nazeerabad	Rangareddy	17.1909	77.9314
NRB14	Nazeerabad	Rangareddy	17.1886	77.9362
NRB15	Nazeerabad	Rangareddy	17.1844	77.9300
NRB16	Nazeerabad	Rangareddy	17.1788	77.9233
NRB17	Nazeerabad	Rangareddy	17.1752	77.9234
NRB18	Nazeerabad	Rangareddy	17.1716	77.9242
NRB19	Nazeerabad	Rangareddy	17.1700	77.9295
NRB20	Nazeerabad	Rangareddy	17.1675	77.9230
NRB22	Nazeerabad	Rangareddy	17.1617	77.9171
NRB23	Nazeerabad	Rangareddy	17.1598	77.9247
NRB24	Nazeerabad	Rangareddy	17.1554	77.9300
NRB26	Nazeerabad	Rangareddy	17.1506	77.9221
NRB27	Nazeerabad	Rangareddy	17.1480	77.9295
NRB28	Nazeerabad	Rangareddy	17.1473	77.9220
NRB29	Nazeerabad	Rangareddy	17.1442	77.9128
NRB30	Nazeerabad	Rangareddy	17.1443	77.9282
NRB31	Nazeerabad	Rangareddy	17.1420	77.9208
NRB34	Nazeerabad	Rangareddy	17.1352	77.9174
NRB35	Nazeerabad	Rangareddy	17.1328	77.9273
NRB36	Nazeerabad	Rangareddy	17.1299	77.9436

WTG Location No	Village	District	Latitude (N)	Longitude (E)
NRB39	Nazeerabad	Rangareddy	17.1307	77.9328
NRB40	Nazeerabad	Rangareddy	17.1247	77.9443
NRB41	Nazeerabad	Rangareddy	17.1267	77.9321
NRB43	Nazeerabad	Rangareddy	17.1223	77.9303
NRB44	Nazeerabad	Rangareddy	17.1203	77.9405
NRB48	Nazeerabad	Rangareddy	17.1189	77.9478
NRB49	Nazeerabad	Rangareddy	17.1155	77.9566
NRB54	Nazeerabad	Rangareddy	17.1047	77.9537
NRB56	Nazeerabad	Rangareddy	17.0990	77.9548
NRB57	Nazeerabad	Rangareddy	17.0960	77.9551
NRB58	Nazeerabad	Rangareddy	17.0895	77.9509
NRB60	Nazeerabad	Rangareddy	17.1978	77.9525
NRB62	Nazeerabad	Rangareddy	17.1431	77.9875
NRB63	Nazeerabad	Rangareddy	17.1390	77.9877
NRB64	Nazeerabad	Rangareddy	17.1354	77.9894
NRB66	Nazeerabad	Rangareddy	17.1292	77.9909
NRB67	Nazeerabad	Rangareddy	17.1248	77.9920
NRB68	Nazeerabad	Rangareddy	17.1214	77.9941
NRB69	Nazeerabad	Rangareddy	17.1153	77.9932
NRB71	Nazeerabad	Rangareddy	17.1042	77.9862
NRB72	Nazeerabad	Rangareddy	17.0866	77.9500

The location details for the Burgula-II project site

WTG Location No	Village	District	Latitude (N)	Longitude (E)
BRG-552	Burugula	Kurnool	15.19516	77.93793
BRG-553	Burugula	Kurnool	15.19682	77.93758

The location details for the Aspari-I project site:

WTG Location No	Village	District	Latitude (N)	Longitude (E)
ASP-005	Aspari	Kurnool	15.4721	77.3977
ASP-006	Aspari	Kurnool	15.4685	77.3975
ASP-007	Aspari	Kurnool	15.4651	77.3981
ASP-008	Aspari	Kurnool	15.4613	77.3984
ASP-009	Aspari	Kurnool	15.4561	77.3998
ASP-010	Aspari	Kurnool	15.4527	77.3985
ASP-011	Aspari	Kurnool	15.4491	77.4002
ASP-012	Aspari	Kurnool	15.4455	77.4004
ASP-013	Aspari	Kurnool	15.4424	77.3998
ASP-014	Aspari	Kurnool	15.4383	77.3990
ASP-015	Aspari	Kurnool	15.4350	77.3975

WTG Location No	Village	District	Latitude (N)	Longitude (E)
ASP-016	Aspari	Kurnool	15.4315	77.3978
ASP-017	Aspari	Kurnool	15.4280	77.3981
ASP-018	Aspari	Kurnool	15.4228	77.4094
ASP-019	Aspari	Kurnool	15.4191	77.4079
ASP-021	Aspari	Kurnool	15.4149	77.4068
ASP-022	Aspari	Kurnool	15.4093	77.4092
ASP-023	Aspari	Kurnool	15.4057	77.4099
ASP-024	Aspari	Kurnool	15.4011	77.4110
ASP-025	Aspari	Kurnool	15.4455	77.4124
ASP-026	Aspari	Kurnool	15.4413	77.4126
ASP-027	Aspari	Kurnool	15.4369	77.4140
ASP-028	Aspari	Kurnool	15.4319	77.4140
ASP-029	Aspari	Kurnool	15.4266	77.4136
ASP-061	Aspari	Kurnool	15.3893	77.4220
ASP-062	Aspari	Kurnool	15.3856	77.4186
ASP-063	Aspari	Kurnool	15.3826	77.4137
ASP-064	Aspari	Kurnool	15.3792	77.4111
ASP-065	Aspari	Kurnool	15.3754	77.4103
ASP-066	Aspari	Kurnool	15.3721	77.4079
ASP-030	Aspari	Kurnool	15.4416	77.4269
ASP-031	Aspari	Kurnool	15.4379	77.4272
ASP-032	Aspari	Kurnool	15.4339	77.4278
ASP-033	Aspari	Kurnool	15.4305	77.4279
ASP-035	Aspari	Kurnool	15.4242	77.4302
ASP-036	Aspari	Kurnool	15.4200	77.4328
ASP-037	Aspari	Kurnool	15.4165	77.4356
ASP-038	Aspari	Kurnool	15.4124	77.4365
ASP-039	Aspari	Kurnool	15.4089	77.4376
ASP-042	Aspari	Kurnool	15.4211	77.4504
ASP-043	Aspari	Kurnool	15.4159	77.4571
ASP-087	Aspari	Kurnool	15.4340	77.4495
ASP-088	Aspari	Kurnool	15.4406	77.4480
ASP-089	Aspari	Kurnool	15.4444	77.4465
ASP-090	Aspari	Kurnool	15.4474	77.4443
ASP-091	Aspari	Kurnool	15.4518	77.4434
ASP-092	Aspari	Kurnool	15.4553	77.4430

The location details for the Aspari-II project site:

WTG Location No	Village	District	Latitude (N)	Longitude (E)
ASP-001	Aspari	Kurnool	15.4834	77.4121
ASP-002	Aspari	Kurnool	15.4791	77.4161
ASP-003	Aspari	Kurnool	15.4745	77.4177
ASP-040	Aspari	Kurnool	15.3942	77.4422
ASP-044	Aspari	Kurnool	15.4117	77.4612
ASP-046	Aspari	Kurnool	15.4053	77.4667
ASP-047	Aspari	Kurnool	15.3907	77.4695
ASP-048	Aspari	Kurnool	15.3969	77.4698
ASP-050	Aspari	Kurnool	15.4208	77.4773
ASP-052	Aspari	Kurnool	15.4161	77.4829
ASP-053	Aspari	Kurnool	15.4096	77.4789
ASP-054	Aspari	Kurnool	15.4059	77.4797
ASP-055	Aspari	Kurnool	15.3993	77.4840
ASP-071	Aspari	Kurnool	15.3902	77.4451
ASP-072	Aspari	Kurnool	15.3864	77.4443
ASP-073	Aspari	Kurnool	15.3826	77.4443
ASP-074	Aspari	Kurnool	15.3779	77.4442
ASP-081	Aspari	Kurnool	15.3792	77.4878
ASP-082	Aspari	Kurnool	15.3758	77.4913
ASP-083	Aspari	Kurnool	15.3722	77.4924
ASP-084	Aspari	Kurnool	15.3688	77.4934
ASP-086	Aspari	Kurnool	15.3616	77.4953
ASP-093	Aspari	Kurnool	15.4658	77.4388
ASP-094	Aspari	Kurnool	15.4705	77.4381
ASP-095	Aspari	Kurnool	15.4740	77.4383
ASP-130	Aspari	Kurnool	15.4631	77.4228
ASP-131	Aspari	Kurnool	15.4528	77.4126
ASP-132	Aspari	Kurnool	15.4492	77.4123
ASP-138	Aspari	Kurnool	15.4570	77.4138
ASP-139	Aspari	Kurnool	15.4758	77.3987

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 PPs 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:

The commissioning details for the Bhesada project site:

Location No	Commissioning Date
RSA 126	30-December-2015
RSA 128	30-December-2015
RSA 286	30-December-2015
RSA 280	30-December-2015

The commissioning details for the Pottipadu project site:

Location No	Commissioning Date
PPD-045	31-December-2015
PPD-046	31-December-2015
PPD-047	31-December-2015
PPD-058	31-December-2015
PPD-076	31-December-2015
PPD-078	31-December-2015
PPD-081	31-December-2015
PPD-082	31-December-2015
PPD-084	31-December-2015
PPD-085	31-December-2015
PPD-052	05-March-2016
PPD-055	05-March-2016
PPD-056	05-March-2016
PPD-057	05-March-2016
PPD-001	06- March -2016
PPD-002	06- March -2016
PPD-005	06- March -2016
PPD-006	06- March -2016
PPD-011	06- March -2016
PPD-012	06- March -2016
PPD-013	06- March -2016
PPD-014	06- March -2016
PPD-015	06- March -2016
PPD-016	06- March -2016

Location No	Commissioning Date
PPD-038	06- March -2016
PPD-039	06- March -2016
PPD-040	06- March -2016
PPD-060	06- March -2016
PPD-061	06- March -2016
PPD-062	06- March -2016
PPD-063	06- March -2016
PPD-064	06- March -2016
PPD-073	06- March -2016
PPD-074	06- March -2016
PPD-075	06- March -2016
PPD-049	26- March -2016
PPD-050	26- March -2016
PPD-053	26- March -2016
PPD-054	26- March -2016
PPD-027	27-March-2016
PPD-028	27-March-2016
PPD-029	27-March-2016
PPD-030	27-March-2016
PPD-031	27-March-2016
PPD-032	27-March-2016
PPD-033	27-March-2016
PPD-034	27-March-2016
PPD-035	27-March-2016
PPD-044	27-March-2016

The commissioning details for the Nidhi project site:

Location No.	Commissioning Date
NDH 01	31-March-2016
NDH 02	31-March-2016
NDH 03	31-March-2016

Location No.	Commissioning Date
NDH 04	31-March-2016
NDH 05	31-March-2016
NDH 06	31-March-2016
NDH 07	31-March-2016
NDH 21	31-March-2016
NDH 22	31-March-2016
NDH 23	31-March-2016
NDH 24	31-March-2016
NDH 25	31-March-2016
NDH 26	31-March-2016
NDH 08	31-March-2016
NDH 09	31-March-2016
NDH 10	31-March-2016
NDH 11	31-March-2016
NDH 12	31-March-2016
NDH 16	31-March-2016
NDH 17	31-March-2016
NDH 18	31-March-2016
NDH 19	31-March-2016
NDH 20	31-March-2016
NDH 27	31-March-2016
NDH 28	31-March-2016
NDH 29	31-March-2016
NDH 30	31-March-2016
NDH 31	31-March-2016
NDH 32	31-March-2016
NDH 33	31-March-2016
NDH 34	31-March-2016
NDH 35	31-March-2016
NDH 36	31-March-2016

Location No.	Commissioning Date
NDH 37	31-March-2016
NDH 38	31-March-2016
NDH 39	31-March-2016
NDH 44	31-March-2016

The commissioning details for the Nipaniya project site:

Location No.	Commissioning Date
NPY-P-58	19-March-2016
NPY-P3-41	19-March-2016
NPY-P3-41	19-March-2016
NPY-P3-114	19-March-2016
NPY-P3-116	19-March-2016
NPY-P3-117	19-March-2016
NPY-P3-120	20-January-2016
NPY-P3-127	19-March-2016
NPY-P-59	19-March-2016
NPY-P3-157	19-March-2016
NPY-P3-112	27-March-2016
NPY-P3-124	29-March-2016
NPY-P3-154	29-March-2016
NPY-P3-119	19-March-2016
NPY-P-51	29-March-2016
NPY-P3-128	27-March-2016

The commissioning details for the Nazeerabad project site:

Location No	Commissioning Date
NRB-2	27-March-2016
NRB-3	27-March-2016
NRB-4	27-March-2016
NRB-5	27-March-2016
NRB-6	27-March-2016
NRB-15	27-March-2016

Location No	Commissioning Date
NRB-14	27-March-2016
NRB-16	27-March-2016
NRB-17	27-March-2016
NRB-26	27-March-2016
NRB-28	27-March-2016
NRB-31	27-March-2016
NRB-34	27-March-2016
NRB-40	27-March-2016
NRB-41	27-March-2016
NRB-43	27-March-2016
NRB-35	27-March-2016
NRB-72	27-March-2016
NRB-49	27-March-2016
NRB-56	27-March-2016
NRB-58	27-March-2016
NRB-57	27-March-2016
NRB-54	31-March-2016
NRB-30	31-March-2016
NRB-62	31-March-2016
NRB-07	31-March-2016
NRB-44	31-March-2016
NRB-71	31-March-2016
NRB-36	31-March-2016
NRB-63	31-March-2016
NRB-19	31-March-2016
NRB-69	31-March-2016
NRB-23	31-March-2016
NRB-22	31-March-2016
NRB-01	31-March-2016
NRB-64	31-March-2016

Location No	Commissioning Date
NRB-27	31-March-2016
NRB-11	31-May-2016
NRB-39	31-May-2016
NRB-24	31-May-2016
NRB-29	31-May-2016
NRB-18	31-May-2016
NRB-66	31-May-2016
NRB-60	31-May-2016
NRB-68	31-May-2016
NRB-67	31-May-2016
NRB-20	31-May-2016
NRB-48	06-March-2017

The commissioning details for the Burgula-II project site:

Location No	Commissioning date
BRG-552	30-March-2017
BGR-553	30-March-2017

The commissioning details for the Aspari-I project site:

Location No	Commissioning date
ASP-5	15-October-2016
ASP-6	15-October-2016
ASP-7	15-October-2016
ASP-8	15-October-2016
ASP-9	15-October-2016
ASP-10	15-October-2016
ASP-11	15-October-2016
ASP-12	15-October-2016
ASP-13	15-October-2016
ASP-14	15-October-2016
ASP-15	15-October-2016
ASP-16	15-October-2016

Location No	Commissioning date
ASP-17	15-October-2016
ASP-18	15-October-2016
ASP-19	15-October-2016
ASP-20	15-October-2016
ASP-21	15-October-2016
ASP-22	15-October-2016
ASP-23	15-October-2016
ASP-24	15-October-2016
ASP-25	15-October-2016
ASP-26	15-October-2016
ASP-27	15-October-2016
ASP-28	15-October-2016
ASP-29	15-October-2016
ASP-61	15-October-2016
ASP-62	15-October-2016
ASP-63	15-October-2016
ASP-64	15-October-2016
ASP-65	15-October-2016
ASP-66	15-October-2016
ASP-31	20- October-2016
ASP-30	20- October-2016
ASP-87	20- October-2016
ASP-33	20- October-2016
ASP-90	20- October-2016
ASP-32	20- October-2016
ASP-88	20- October-2016
ASP-89	20- October-2016
ASP-43	20- October-2016
ASP-36	20- October-2016
ASP-42	20- October-2016

Location No	Commissioning date
ASP-35	20- October-2016
ASP-37	20- October-2016
ASP-91	20- October-2016
ASP-92	20- October-2016
ASP-38	20- October-2016
ASP-39	20- October-2016

The commissioning details for the Aspari-II project site:

Location No	Commissioning date
ASP-1	16-March-2017
ASP-2	16-March-2017
ASP-3	16-March-2017
ASP-44	16-March-2017
ASP-139	16-March-2017
ASP-93	16-March-2017
ASP-94	16-March-2017
ASP-95	16-March-2017
ASP-53	25- March-2017
ASP-54	25- March-2017
ASP-50	25- March-2017
ASP-40	25- March-2017
ASP-71	25- March-2017
ASP-72	25- March-2017
ASP-46	25- March-2017
ASP-73	25- March-2017
ASP-81	25- March-2017
ASP-86	25- March-2017
ASP-84	25- March-2017
ASP-55	25- March-2017
ASP-130	25- March-2017
ASP-138	25- March-2017

Location No	Commissioning date
ASP-131	25- March-2017
ASP-132	25- March-2017
ASP-82	25- March-2017
ASP-83	25- March-2017
ASP-47	25- March-2017
ASP-48	25- March-2017
ASP-74	25- March-2017
ASP-52	25- March-2017

The project boundary includes the electricity generation equipment at the project site, sub-station and the regional 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.

Technical details of WTG

The project activity comprises of WTG's of Suzlon Energy Limited Model No. S97, WTG's of GE India Industrial Pvt Limited GE 1.7 & 2.3, WTGs of Inox Wind Limited Model No. DF-100 and WTGs of Wind World India Limited Model No. WW-53.

The Specification of 50 WTG (105 MW at Pottipadu site), 4 WTG (8.4 MW at Bhesada site) and 48 WTG (100.8 MW at Nazeerabad site) Suzlon Energy Limited's model: S-97/2100 kW at Pottipadu Site, Bhesada site and Nazeerabad site respectively are as follows:

Power	
Rated power:	2,100.0 kW
Cut-in wind speed:	3.5 m/s
Rated wind speed:	11.0 m/s
Cut-out wind speed:	20.0 m/s
Survival wind speed:	60.0 m/s
Rotor	
Diameter:	97.0 m
Swept area:	7,386.0 m ²
Number of blades:	3

Power density 1:	284.3 W/m ²
Power density 2:	3.5 m ² /kW
Generator	
Type:	Asynchronous
Number:	1
Voltage:	690.0 V
Grid connection:	DFIG
Grid frequency:	50/60 Hz
Tower	
Hub height:	80/90/100/120 m
Type:	Steel tube
Shape:	Conical
Corrosion protection:	Painted

The Specification of 47 WTG (79.9 MW at Aspari I) and 90 MW at Nidhi site of GE India Industrial Pvt. Ltd. model: GE 1.7 at Aspari-I Site and Nidhi site respectively are as follows:

Power	
Rated power:	1,700.0 kW
Cut-in wind speed:	3.0 m/s
Rated wind speed:	10.0 m/s
Cut-out wind speed:	23.0 m/s
Wind class (IEC):	S
Rotor	
Diameter:	103.0 m
Swept area:	8,332.0 m ²
Number of blades:	3
Type:	50.2m
Material:	GFRP
Power density 1:	204.0 W/m ²

Power density 2:	4.9 m ² /kW
Gear box	
Type:	spur/planetary
Generator	
Type:	Double Fed Asyn
Number:	1
Grid connection:	IGBT
Grid frequency:	50/60 Hz
Tower	
Hub height:	80/96 m
Type:	Steel tube
Shape:	Conical
Corrosion protection:	Painted

The Specification of 30 WTG (69 MW) GE India Industrial Pvt. Ltd. model- GE 2.3 at Aspari-II are as follows:

Rated Power (MW):	2.3
Wind Class:	IIIs
Cut-In Wind Speed:	3
Nominal Wind speed (8 m/s):	14m/s
Cut-Out Wind Speed:	23
Annual Output (8 m/s) in MWh:	10,887 @ 8.5m/s
Nominal Rotor Diameter (m):	107
Hub Height (m):	80,94
Swept Area (m ²):	8,992
Gearbox Ratio:	130.4 (50hz)
Generator Type:	DFIG
Turbine Output (V):	690
Frequency (HZ):	50

The Specification of 15 WTG (30 MW) Inox Wind Ltd. model: DF 100 at Nipaniya are as follows:

Power	
Rated power:	2,000.0 kW
Cut-in wind speed:	3.0 m/s
Rated wind speed:	11.0 m/s
Cut-out wind speed:	20.0 m/s
Survival wind speed:	52.5 m/s
Wind class (IEC):	IIIb
Rotor	
Diameter:	100.0 m
Swept area:	7,894.0 m ²
Number of blades:	3
Rotor speed, max:	15.7 U/min
Tipspeed:	82 m/s
Material:	Epoxy glass fibre
Power density 1:	253.4 W/m ²
Power density 2:	3.9 m ² /kW
Gear box	
Type:	spur/planetary
Stages:	3
Ratio:	0.121528
Generator	
Type:	doubly fed induction
Number:	1
Speed, max:	1,800.0 U/min
Voltage:	690.0 V
Grid connection:	IGBT
Grid frequency:	50.0 Hz
Tower	

Hub height:	80/92 m
Type:	Steel tube
Shape:	Conical
Corrosion protection:	Painted

The Specification of 10.4 MW Wind World India Limited's model: WW-53 at Burgula-II are as follows:

Power	
Rated power:	800.0 kW
Cut-in wind speed:	3.0 m/s
Rated wind speed:	11.5 m/s
Cut-out wind speed:	28.0 m/s
Rotor	
Diameter:	52.9 m
Swept area:	2,007.0 m ²
Number of blades:	3
Rotor speed, max:	29.5 U/min
Tipspeed:	82 m/s
Material:	fiberglass-epoxy resin
Power density 1:	398.6 W/m ²
Power density 2:	2.5 m ² /kW
Gear box	
Type:	direct drive
Generator	
Type:	Synchronous
Number:	1
Speed, max:	29.5 U/min
Grid connection:	Inverters
Grid frequency:	WindWorld India

Tower	
Hub height:	74 m
Type:	Concrete
Shape:	Conical

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. 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 PD.

Assessment team confirms following during the verification remote audit:

1. Start date of the project activity is 30-Decemeber-2015 as mentioned in the registered VCS PD.
2. An undertaking letter dated 28-December-2020 has been submitted by PP for no 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 3rd monitoring under VCS and covers the activity from 01-August-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-Decemeber-2015 is the start date and 29-Decemeber-2025 will be end date of the crediting period.

The GHG credits from 01-August-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 "No Double Counting".

5. 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 534,957 tCO₂e is 8.0 % lower than the estimated emission reductions 582,060 tCO₂e (870,704 tCO₂e/365 days x 244 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 2013¹. 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 notification² 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 grievance 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 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 06 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’

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

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

	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 0.9653 tCO₂/MWh. The calculation approach was in line with the VCS PD. Values are as follows: $EF_{grid,OM,y} = 0.9843 \text{ tCO}_2/\text{MWh}$ $EF_{grid,BM,y} = 0.9083 \text{ tCO}_2/\text{MWh}$ $EF_{grid,CM,y} = 0.9653 \text{ tCO}_2/\text{MWh}$ Ex-post parameter: 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 to the grid is directly sourced from the form B /credit note as JMR issued by state Utility. The electricity generation supplied by the project activity is measured by dedicated SEB bidirectional tri vector main and check meter installed at substation (metering point). The details of electricity meters are provided in Appendix 5 of this report. Monthly meter readings are taken by representatives of SEB official and representatives of PP. The net electricity supplied to grid is calculated as the difference of the measured values of export and Import of electricity. PP has applied one deviation. The total project capacity is 493.5 MW out of which 466.4 MW is commissioned till date and 27.1 MW is still under process. Delay in commissioning is due to the regulatory issues and not in control of the PPs. The same is also approved in previous verification. The deviation doesn't impact the applicability of the methodology,
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	additionality of the project activity and is in accordance with the VCS standard version 4.0. As the applied deviation is valid and do not have impact on the scale, methodology, additionality and monitoring of the project activity and thus accepted by the assessment team. The net electricity supplied the grid by the project activity during the monitoring period is 554,193 MWh. The verification team has checked the entire monthly “Form B/Credit Note (JMRs)” the net electricity generation supplied to the grid and cross checked the invoices raised by the PP to the state Utilities. 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 $BEy = 554,193 \text{ MWh} \times 0.9653 \text{ tCO}_2\text{e/MWh}$ $= 534,957 \text{ tCO}_2\text{e (round down values)}$ As per applied methodology ACM0002, version 17.0 and the VCS PD, project emission is considered zero as the project activity involved wind power generation. Leakage: As per applied methodology ACM0002, version 17.0 and VCS PD Leakage emissions are not considered for the project activity. Hence, ERy= BEy – PEy-Ly= 534,957 – 0 – 0= 534,957 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. Assessment team confirmed that the GHG emission reductions and removals have been quantified correctly in line with 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 dedicated SEBI Energy Meters tri-vector bi-directional energy meters of 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. The details like make, Serial number, Calibration dates etc are provided in Appendix 5 of this report. 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. 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. 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. 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.
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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 Mytrah Energy (India) Limited to perform the 3rd periodical verification of the “Bundled Wind Power Project by Mytrah Group”.

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 and the applied methodology ACM0002 - Version 17.0

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-August-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) ³	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01-August-2019 to 31-December-2019	359,981	0	0	359,981
01-January-2020 to 31-March-2020	174,976	0	0	174,976

³Rounddown values

Year	Baseline emissions or removals (tCO ₂ e) ³	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
Total	534,957	0	0	534,957

APPENDIX 1: DOCUMENTS REVIEWED OR REFERENCED (VERIFICATION)

No.	Author	Title	References to the document	Provider
1.	NA	Commissioning certificates of the WTGs:		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.terra.org/app/projectDetail/VCS/1728	NA	PP
5.	NA	Calibration Certificates of energy meters Apsari Site Bhesada Site Burgula-II Nazeerabad Site Nidhi Site Nipaniya Site Pottipadu Site	- EM/17E209/YESPL/01 C&IJ/CAL/S/16-04/073 EM/17E309/YESPL/01 Dated:22/08/17 DCPL/CAL/17-18/567 DCPL/CAL/17-18/568 DCPL/CAL/17-18/571 DCPL/CAL/17-18/572 RP-1516-001136 RP-1516-001137 EM/17E235/YSEPL/07 EM/17E235/YSEPL/01	PP
6.	NA	Draft MR version 01 Revised MR version 02 Revised MR Version 03 Final MR Version 04	23-October-2020 18-Decemeber-2020 25-January-2021 05-April-2021	PP
7.	NA	Draft Emission reduction sheet version 01 Revised Emission reduction sheet version 02 Final Emission reduction sheet version 03	23-October-2020 18-Decemeber-2020 25-January-2021	PP
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	UNFCCC CDM/VCS web site	UNFCCC

No.	Author	Title	References to the document	Provider
		- VCS standard Version 4.0 - VCS Program Guide 4.0 - VCS verification report template version 4.0		
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-December-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
16.		CDM validation and verification standard for project activities, Version 02.0	-	UNFCCC
17.		Verification Reports for previous VCS verification	ESPL Mytrah-PL-2020 Version 01 dated 27-May-202020.	PP
18.		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: 10-December-2020
Description of CAR				
1. Project summary in Section 1.1 of MR is not as per guidance in MR template. 2. Project description is not clear about balance capacity as of now. 3. Actual contribution of project activity towards sustainable development is missing in section 1.11 of the MR. Corrective action is sought.				
Project participant response				Date: 18-December-2020

1. Project summary has been updated as per template guidelines. 2. Actual capacity of the project till now is 466.4 MW and the same has now been mentioned in VCS MR V02. 3. Actual contribution by this project activity towards sustainable development has now been updated in this submission.	
Documentation provided by project participant	
VCS MR V02	
DOE assessment	Date: 09-January-2021
1. Section 1.1 has been updated in revised MR in accordance with the guidelines to complete VCS MR. Hence OK 2. PP has provided explanatory note about actual commissioned capacity under project activity in the section 1.1 of Revised MR. which found acceptable, Hence ok. 3. PP has revised the section 1.11, Actual contribution of project activity towards sustainable development in revised MR. Hence ok. CAR closed.	

CAR ID	02	Section no.	4.1	Date: 10-December-2020
Description of CAR				
Commissioning dates for the WTGs NRB-11, NRB-39, NRB-24, NRB-29, NRB-18, NRB-66, NRB-60, NRB-68, NRB-67, NRB-20 not inline with commissioning certificates. Corrections sought.				
Project participant response				Date: 18-December-2020
Inconsistency observed in the commission dates of WTGs NRB-11, NRB-39, NRB-24, NRB-29, NRB-18, NRB-66, NRB-60, NRB-68, NRB-67, NRB-20 has been corrected in this submission				
Documentation provided by project participant				
VCS MR V02				
DOE assessment				Date: 09-January-2021
PP has rectified the commissioning dates for the WTGs NRB-11, NRB-39, NRB-24, NRB-29, NRB-18, NRB-6, NRB-60, NRB-68, NRB-67, NRB-20 in the section 1.5 of Revised MR. however same found in lined with the commissioning certificates. Thus accepted. CAR02 Closed.				

CAR ID	03	Section no.	4.1	Date: 10-December-2020
Description of CAR				

During the review of documents submitted by PP, it was found that the following documents are missing; 1. Power Purchase agreement for the project activity 2. O & M Agreement 3. Declaration regarding avoidance of double counting of emission reductions in the other GHG trading programmes and REC mechanism of India. PP is requested to provide the above documents to assessment team	
Project participant response	Date: 18-December-2020
The requested documents has been attached in this submission.	
Documentation provided by project participant	
Power Purchase agreement for the project activity, O & M Agreement, Declaration regarding avoidance of double counting of emission reductions in the other GHG trading programs and REC mechanism of India	
DOE assessment	Date: 09-January-2021
PP has submitted the following documents to the assessment team for verification of project activity: 1. Power Purchase Agreement of whole project activity. 2. O&M Contracts of all units. 3. Declaration regarding avoidance of double counting of emission reductions in the other GHG trading programs and REC mechanism of India, dated 16.12.2020 Received Documents found consistent, thus accepted. CAR03 closed	

CAR ID	04	Section no.	4.1	Date: 10-December-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: 18-December-2020
Breakdown details are now being updated in the VCS MR and supporting for same has been submitted.				
Documentation provided by project participant				
Breakdown details Excel sheet & VCS MR V02				
DOE assessment				Date: 09-January-2021

PP has provided breakdown details of WTGs of project activity in revised MR with breakdown details sheet as a supporting document. Both found consistent thus **CAR04 closed**.

CAR ID	05	Section no.	4.2.2	Date: 10-December-2020
Description of CAR				
PP is requested to provide a copy of supporting documents for ongoing local stakeholders consultation including grievance register for verification.				
Project participant response				Date: 18-December-2020
<i>Documents for local stakeholder consultation have now been submitted.</i>				
Documentation provided by project participant				
<i>Grievance register.</i>				
DOE assessment				Date: 09-January-2021
PP has submitted copies of grievance register of all project unit to assessment team. Found consistent. thus, CAR05 closed .				

Accuracy of GHG Emission Reduction and Removal Calculations

CAR ID	06	Section no.	4.4	Date: 10-December-2020
Description of CAR				
PP requested to submit complete set of JMR and invoices for complete monitoring period.				
Project participant response				Date: 18-December-2020
Copies of JMRs & Invoices for the complete monitoring period has been attached in tis monitoring period.				
Documentation provided by project participant				
JMRs & Invoices.				
DOE assessment				Date: 09-January-2021
PP has submitted copies of all JMRs and invoices covering complete monitoring period. Found consistent, thus accepted. CAR06 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	Shen	Simon	Applus+ Certification
2.	Approver	IR	Calle	Agustín	Applus+ Certification

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. 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 OF THE METERS

The main meter and Check meter details of Nazeerabad Site:

Main Meter		Check Meter	
Make	L & T	Make	L & T
Meter Sl. No	15624894	Meter Sl. No.	15624896
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration Date	22-August-2017	Calibration Date	22-August-2017
Calibration Due Date	21-August-2022	Calibration Due Date	21-August-2022

The Main meter and Check meter details of Pottipadu Site:

For 65.1 MW					
PPD-06 (21 MW)					
Main Meter		Check Meter		Backup Meter	
Make	Secure	Make	Secure	Make	Secure
Meter Sl. No.	XC559930	Meter Sl. No	XC559931	Meter Sl. No	XC559924
Accuracy Class	0.2 s	Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	20-November-2017	Calibration date	20-November-2017	Calibration date	20-November-2017
Calibration Due Date	19-November-2022	Calibration Due Date	19-November-2022	Calibration Due Date	19-November-2022

PPD-40 (23.1 MW)					
Main Meter		Check Meter		Backup Meter	
Make	Secure	Make	Secure	Make	Secure
Meter Sl. No.	XC559921	Meter Sl. No	XC559922	Meter Sl. No	XC559923
Accuracy Class	0.2 s	Accuracy Class	0.2 s	Accuracy Class	0.2 s

Calibration date	20-November-2017	Calibration date	20-November-2017	Calibration date	20-November-2017
Calibration Due Date	19-November-2022	Calibration Due Date	19-November-2022	Calibration Due Date	19-November-2022

PPD-35 (21 MW)					
Main Meter		Check Meter		Backup Meter	
Make	Secure	Make	Secure	Make	Secure
Meter Sl. No.	XC559932	Meter Sl. No.	XC559933	Meter Sl. No.	XC559934
Accuracy Class	0.2 s	Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	22-November-2017	Calibration date	22-November-2017	Calibration date	22-November-2017
Calibration Due Date	19-November-2022	Calibration Due Date	19-November-2022	Calibration Due Date	19-November-2022

For 39.9 MW					
Feeder-01					
Main Meter		Check Meter		Backup Meter	
Make	Elster	Make	Elster	Make	Elster
Meter Sl. No.	13720861	Meter Sl. No.	13720862	Meter Sl. No.	13720866
Accuracy Class	0.2 s	Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	21-November-2017	Calibration date	21-November-2017	Calibration date	21-November-2017

Calibration Due Date	19-November-2022	Calibration Due Date	19-November-2022	Calibration Due Date	19-November-2022
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Feeder-02					
Main Meter		Check Meter		Backup Meter	
Make	Elster	Make	Elster	Make	Elster
Meter Sl. No.	13720867	Meter Sl. No.	13720868	Meter Sl. No.	13720872
Accuracy Class	0.2 s	Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	21-11-2017	Calibration date	21-11-2017	Calibration date	21-11-2017
Calibration Due Date	20-11-2022	Calibration Due Date	20-11-2022	Calibration Due Date	20-11-2022

The Main meter and Check meter details of Nidhi Site:

Feeder-09			
Main Meter		Check Meter	
Make	Genus	Make	Genus
Meter Sl.No.	A 3015605	Meter Sl.No.	A 3015606
Accuracy class	0.2 s	Accuracy class	0.2 s
Calibration date	29-May-2017	Calibration date	29-May-2017
Calibration Due Date	28-May-2022	Calibration Due Date	28-May-2022
Feeder-10			
Main Meter		Check Meter	
Make	Genus	Make	Genus
Meter Sl.No.	A 3015607	Meter Sl.No.	A 3015608
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	29-May-2017	Calibration date	29-May-2017
Calibration Due Date	28-May-2022	Calibration Due Date	28-May-2022

The Main meter and Check meter details of Bhesada Site:

Feeder 12 (SEL-197)			
Main Meter		Check Meter	
Make	Secure	Make	Secure
Meter Sl. No.	RJB 78188	Meter Sl. No	RJB 78189
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	28-April-2016	Calibration date	28-April-2016
Calibration Due Date	27-April-2021	Calibration Due Date	27-April-2021

Feeder 03 (SEL-195)			
Main Meter		Check Meter	
Make	Secure	Make	Secure
Meter Sl. No.	RJB 78194	Meter Sl. No	RJB 78200
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	28-April-2016	Calibration date	28-April-2016
Calibration Due Date	27-April-2021	Calibration Due Date	27-April-2021

Feeder 04 (SEL-04)			
Main Meter		Check Meter	
Make	Secure	Make	Secure
Meter Sl. No.	RJB 78201	Meter Sl. No	RJB 78203
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	28-April-2016	Calibration date	28-April-2016

Calibration Due Date	27-April-2021	Calibration Due Date	27-April-2021
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The Main meter and Check meter details of Aspari Site::

Aspari-I			
Main Meter		Check Meter	
Make	Secure	Make	Secure
Meter Sl. No.	APX01010	Meter Sl. No	APX01011
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	13-October-2017	Calibration date	13-October-2017
Calibration Due Date	12-October-2022	Calibration Due Date	12-October-2022

Aspari-II			
Main Meter		Check Meter	
Make	Secure	Make	Secure
Meter Sl. No.	APX01012	Meter Sl. No	APX01013
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	13-October-2017	Calibration date	13-October-2017
Calibration Due Date	12-October-2022	Calibration Due Date	12-October-2022

The Main meter and Check meter details of Burgulla Site are as follows:

Burgulla-II			
Main Meter		Check Meter	
Make	Secure	Make	Secure
Meter Sl. No.	APX01021	Meter Sl. No	APX01022

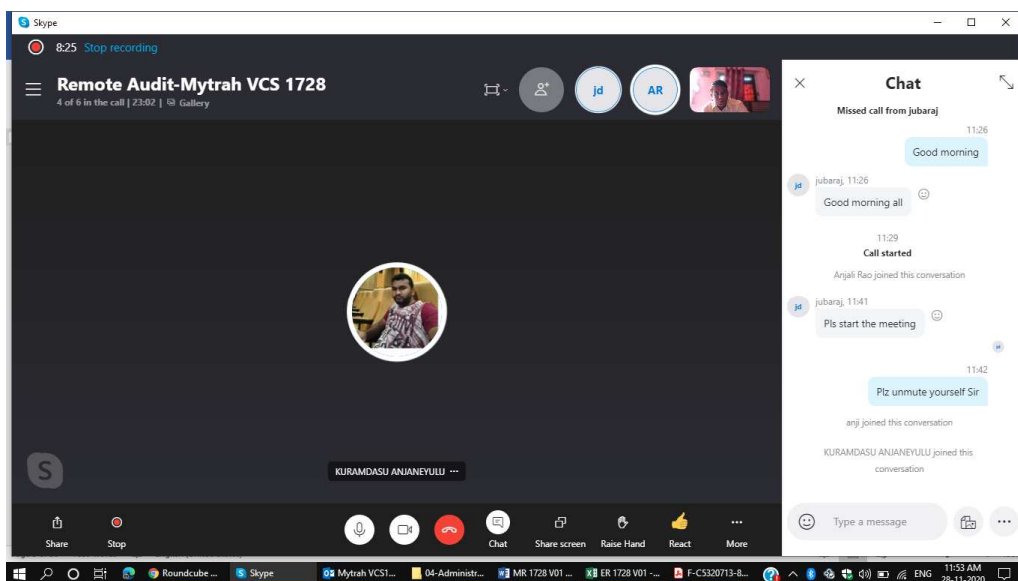
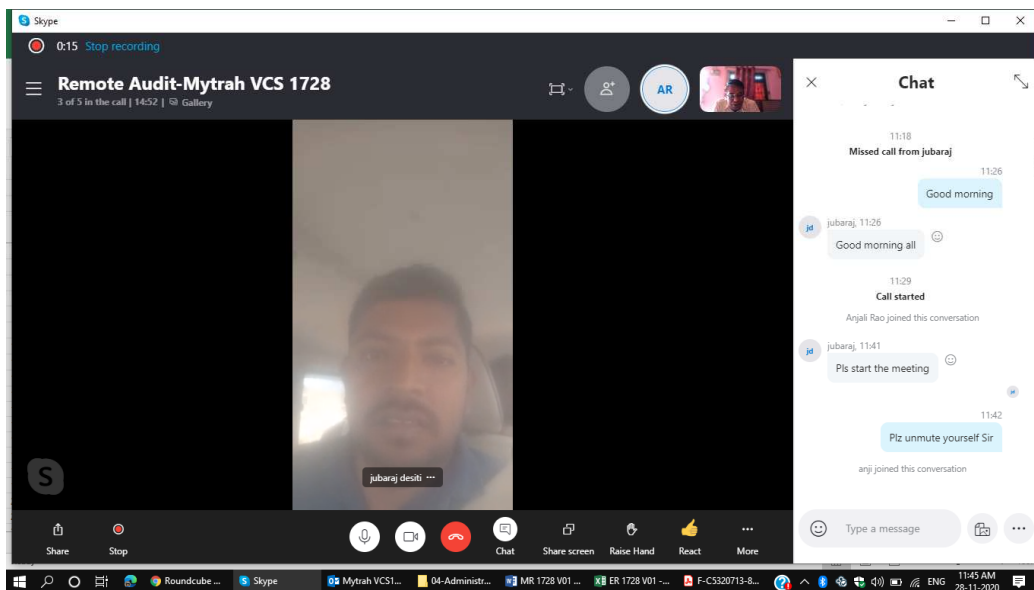
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	30-March-2017	Calibration date	30-March-2017
Calibration Due Date	29-March-2022	Calibration Due Date	29-March-2022

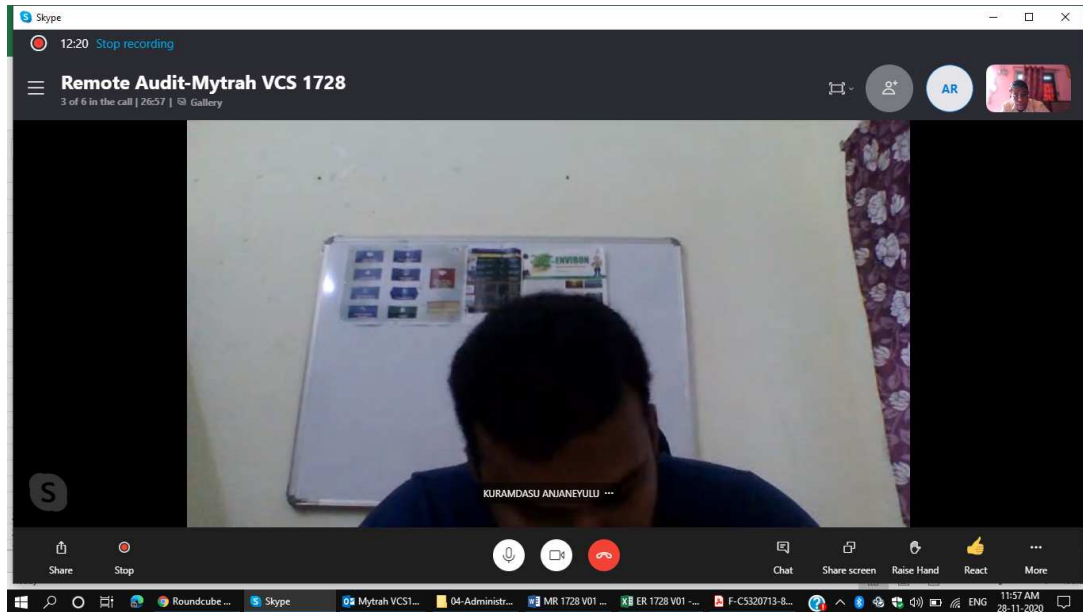
The Main meter and Check meter details of Nipaniya Site:

Nipaniya			
Main Meter		Check Meter	
Make	Secure	Make	Secure
Meter Sl. No.	MPC70479	Meter Sl. No	MPC70480
Accuracy Class	0.2 s	Accuracy Class	0.2 s
Calibration date	10-January-2016	Calibration date	09-May-2016
Calibration Due Date	09-January-2021	Calibration Due Date	08-May-2021

The main meter MPC70479 is replaced by MPC70481 on 09-May-2016 and calibrated on 09-May-2016

APPENDIX 6: DETAILS OF REMOTE AUDIT & SITE PHOTOGRAPHS





WTGs (Sample)





Meter (Sample)



Substation (Sample)

