

VERIFICATION REPORT OF WIND POWER PROJECT IN MAHARASHTRA, INDIA – ANDHRA LAKE PHASE - II



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Summary:

Bureau Veritas Certification has made the Gap validation and verification of the “Wind power project in Maharashtra, India – Andhra Lake Phase - II” project of CLP Wind Farms (India) Private Limited located at Andhra Lake site, Khed and Maval taluka of Pune district in Maharashtra State in India on the basis of Verified Carbon Standard Version 3, 25 March 2015, v3.5 as well as criteria given to provide for consistent project operations, monitoring and reporting.

The verification scope is defined as a periodic independent review and ex-post determination by the Validation Verification Body (VVB) of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases:

- i) desk review of the project design and the baseline and monitoring plan;
- ii) follow-up interviews with project stakeholders;
- iii) Resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The project activity is to generate power (electrical energy) from renewable energy (wind energy), which displaces power generation from fossil fuel that would have been the scenario in absence of the project activity, thus achieve GHG emission reduction due to utilization of renewable energy.

The verification is based on the documents like Monitoring Report, Project description (PD), Emission Reduction calculations and other supporting documents provided to the verification team. This verification is carried out in accordance with VCS Standard Version 3 dated 25 October 2015 v3.5 and VCS Program Guide Version3, dated 8 October 2013 v3.5.

During the current verification, the verification team raised findings in the form of corrective action requests (CARs) and Clarification requests (CLs).

In summary, Bureau Veritas Certification confirms that the project is implemented as planned and described in validated VCS-Project Description, registered CDM-PDD under CDM (UNFCCC no. 7491). Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project contributes towards GHG emission reductions. The GHG emission reduction is calculated without material mis-statements.

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Abbreviations:

VER	Verified Emission Reduction
VCS	Verified Carbon Standard
VCU	Verified Carbon Unit
BMS	Bureau Veritas Certification's Management System
CAR	Corrective Action Request
CL	Clarification Request
FAR	Forward Action Request
CO ₂	Carbon Dioxide
DOE	Designated Operational Entity
DR	Document Review
GHG	Green House Gases
I	Interview
MV	Means of Verification
MP	Monitoring Plan
MR	Monitoring Report
PD	Project Description
PDD	Project Design Document
UNFCCC	United Nations Framework Convention for Climate Change
CDM	Clean Development Mechanism
MU	Million Units
KW	Kilowatt
KWh	Kilowatt-hour
MW	Megawatt
MWh	Megawatt-hour
EF	Emission factor
MSEDCL	Maharashtra State Electricity Distribution Company Limited
MSETCL	Maharashtra State Electricity Transmission Company Limited
PPA	Power Purchase agreement
JMR	Joint Meter Reading
CEA	Central Electricity Authority
PP	Project Participant
WTG	Wind Turbine Generator
WEG	Wind Energy Generator
NEWNE Grid	North East West North East Grid

1 INTRODUCTION

1.1 Objective

Verification is the periodic independent review and ex-post determination by the verifier of the monitored reductions in GHG emissions during defined verification period. The objective of the verification is to verify that the project is implemented as planned, to confirm that the monitoring system is in place and fully functional, and to assure that the project has generated verifiable emission reductions. This is the first verification of the project activity under VCS for the vintage from date on which actual emission reduction started i.e. 19/08/2011 (earliest date on which project activity started reducing emissions i.e. commissioning of first 2 WTGs in the project activity) to 29/09/2013 (the date prior to the start date of the CDM crediting period). These emission reductions are verified as per the guidance provided by VCS standards version 3 dated 25 October 2015 v3.5.

The verification shall consider both qualitative and quantitative information on emission reductions. Quantitative data comprises the monitoring report and emission reduction calculations submitted to the verifier by the project participant and qualitative data comprises information on internal management controls, calculation procedures, and procedures for transfer, frequency of emission reduction reports, review and internal audit of calculations/data transfers.

1.2 Scope and Criteria

The verification scope is defined as an independent and objective review of monitoring report, VCS PD for supplementary validation of the project as the project activity is already registered under CDM with UNFCCC, the project's baseline study including the monitored data and other relevant documents made available to verifier and information collected through performing interviews with Project participant during on-site assessment of the project activity. The verification follows VCS Standard version 3 dated 25 October 2015 v3.5.

The verification is not meant to provide any consultation towards the client. However, stated request for forward actions and/or corrective actions may provide input for improvement of the project monitoring towards reductions in the GHG emissions.

1.3 Level of assurance

The verification team was provided with a monitoring report, covering the period 19/08/2011 to 29/09/2013 (inclusive of both the days). Based on this documentation, a document review, on-site assessment of implementation of the project activity and interview with the project participant was conducted. The Monitoring Report, version 2.2, dated 19/09/2015 (/2/) covering the period from 19/08/2011 to 29/09/2013 (inclusive of both the days) serves as the basis for the assessment presented herewith.

The verification report is based on the documents made available to verification team and information provided during interviews. Based on the process and procedures conducted, it can be concluded that the GHG assertion.

1. Is materially correct and is a fair representation of GHG data and information, and
2. Has been prepared in accordance with VCS Standard Version 3 dated 25 March 2015 v3.5.

The data used for the calculation of emission reductions were taken from CEA (Central Electricity Authority), Credit Note issued by MSEDCL and Invoice raised by the Project participant for the net electricity exported to the grid by project activity. As per the validated VCS PD, revised VCS MR and the registered CDM-PDD with the UNFCCC (project ref. no. 7491); the calibration for the meters will be done annually by MSEDCL. During the current monitoring period, the calibration frequency was not followed and the details of the same are discussed in the following sections of the report. There were also instances when the meters have been changed. Details of calibration and meter change are discussed in section 4.1 of this report. During site visit and subsequent review of meter calibration reports it was confirmed that there was meter change in the project activity during the current monitoring period.

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 emission reductions.

Based on the process and procedure conducted, it can be concluded that the GHG assertion is materially correct and is a fair representation of GHG data and information which has been prepared in accordance with the VCS Standard 3 v3.5 for the current verification period.

The verification team considers the assurance level as 'reasonable'. In accordance with the VCS Standard 3 dated 25 March 2015v3.5, the materiality threshold applied was one percent. The accrued emission reductions for the current monitoring period from the project activity are 177,746tCO₂e.

1.4 Summary Description of the Project

The project activity is owned by M/s CLP Wind Farms (India) Private Limited (hereafter referred to as "the Project Proponent"). It involves the installation of Enercon make 63 numbers Wind Turbine Generator's (WTG) of capacity 800 KW each located at Andhra Lake site spread across Khed Mawal Taluka in Pune District in the state of Maharashtra, India. The total capacity of the project activity is 50.4 MW and the entire power generated by the project activity is exported to the North East West North-East (NEWNE) region grid with a firm power purchase agreement with MSEDCL.

The project is registered with the UNFCCC on 04/10/2012 (UNFCCC ref no 7491) and can be viewed from the web link in the UNFCCC website (<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1348755977.79/view>). The project activity generates electricity using wind energy, which does not result in any greenhouse gas (GHG) emissions. Thus, this project activity leads to a reduction in GHG emissions that would otherwise have occurred when using electricity generated from conventional fossil fuel based sources in the NEWNE region grid.

The Project Start Date is 19/08/2011, when the first 02 WTGs in the Project activity were commissioned and started electricity generation. The 1st monitoring period for the Project under the VCS is from 19/08//2011 to 29/09/2013.

Project Title	Wind power project in Maharashtra, India – Andhra Lake Phase - II
Monitoring period	19/08/2011 – 29/09/2013
Project participant	CLP Wind Farms (India) Private Limited
Methodology used	ACM 0002 version 12.3
Location of the project	Andhra Lake site spread across Khed - Mawal Taluka in Pune District in the state of Maharashtra, India
Geo Coordinates	As provided in Section 1.5 of VCS PD and section 1.7 of the monitoring report

The net electricity supplied to the grid is calculated by MSEDCL on the basis of main meter readings. The meters are installed on 5 feeders to which the project activity's 63 WTGs are connected at the MSEDCL substation. The meter reading is issued and certified by MSEDCL in the form of credit notes which are recorded jointly in presence of Project participant's representative every month.

The project activity generates electricity using wind energy, which does not result in any greenhouse gas (GHG) emissions. Thus, this project activity leads to a reduction in GHG emissions that would otherwise have occurred when using electricity generated from conventional fossil fuel based sources in the NEWNE grid.

2 VERIFICATION PROCESS

2.1 Method and Criteria

The overall verification, beginning from the Contract Review to Verification report & opinion, was conducted using Bureau Veritas Certification internal procedures.

The project is already registered with the UNFCCC on 04/10/2012 (UNFCCC ref no 7491) and can be viewed from the web link in the UNFCCC website (<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1348755977.79/view>). The verification criteria followed by the project participant is based on the VCS standards Version 3 dated 25 March 2015 v3.5. This is the first verification of the project activity under VCS for the vintage from date on which actual emission reduction started (19/08/2011, earliest date of commissioning of 2 WTGs in the project activity) till 29/09/2013 (one day prior to the start date of crediting period of CDM project activity). The verification process consists of following activities:

- i) Desk review of the registered project document including the baseline and the monitoring plan: This process consists of the review of the current and previously approved documents related to the project activity including validation report under CDM, registered CDM PDD and revised VCS-PD. The current documents include the Monitoring report for the current verification period, emission reduction spreadsheet and other supporting documents (Commissioning certificates and Credit notes issued by MSEDCL, invoices raised by the Project participant, etc.) pertaining to the current verification period. Refer to Appendix II for the list of documents.
- ii) Interviews with project stakeholders and Document Review: The second step involves the Interviews and discussion with the Project Participants and as well as review of documents provided under Annexure II to ensure the implementation and operation of the project activity in line with the registered CDM-PDD under UNFCCC;
- iii) Resolution of outstanding issues and the issuance of the final verification report including verification opinion: The third step involves the resolution of the CAR/CL raised. Verification process also includes raising the requests for corrective actions and clarification and any other outstanding issues that needed to be clarified for Bureau Veritas Certification before conclusion on the GHG emission reduction calculation.

To guarantee the transparency of the verification process, the concerns raised are documented in more detail in the verification protocol in Annexure I. The supplementary validation and verification of the Project resulted in 03 Corrective Action Requests (CARs) and 05 Clarification Requests (CL).

All the CARs and CLs were closed based on adequate responses from the Project Participant(s) which meets the applicable requirements. They have been reassessed before their formal acceptance and closure. The closure of all the CARs and CLs are discussed under Annexure I of the verification report.

The project activity involves 100% monitoring of data related to emission reduction calculation. No sampling plan has been envisaged.

2.2 Document Review

The verification team has assessed the accuracy of the project description including monitoring plan through a combination of steps consisting of site visit inspection, review of contract related to the project activity, Scrutiny of technical specification and interview of the project participant and their representatives. Following supporting documents were reviewed for the current verification period:

UNFCCC Registered CDM-PDD, CDM-Validation Report, Emission reduction spreadsheet submitted under CDM and revised VCS PD of the project activity;

- Monitoring report and emission reduction spreadsheet for the current verification period,
- Commissioning Certificates and Credit Notes issued by BESCO for entire project activity, monthly Invoices raised by the Project participant for the current verification period.

Based on this documentation, a document review and an on-site assessment of implementation and emission reduction was conducted. The Monitoring Report, version 2.2, dated 10/09/2015 covering the period 19/08/2011-29/09/2013 (inclusive of both the days), serves as the basis for the assessment presented herewith.

2.3 Interviews

On 20/08/2015, during site visit, Bureau Veritas Certification performed interviews with the representative of the project participant and O & M Service provider to confirm selected information and to resolve issues identified in the document review.

Representatives of CLP Wind Farms (India) Private Limited and O & M Service providers were interviewed. The main topics of the interviews are summarized in Table below:

Interviewed organization	Interview topics
CLP Wind Farms (India) Private Limited (Project Participant)	• Project implementation and changes; if any • Monitoring Plan • Monitored Data • Data recording and archiving • GHG calculation procedures • Resolution of CAR(s) and CL(s) • Change to the registered monitoring plan (if any)
Wind World India Limited ¹ (O & M Service providers)	• Metering System at the site, • Technical Equipment and operation • Monitoring • Data Recording and archiving • Calibration of measuring equipment • Data uncertainty and residual risks

¹ Erstwhile known as Enercon India Limited.

2.4 Site Inspections

This is first verification of the project activity under VCS for the monitoring period starting from 19/08/2011 to 29/09/2013. The physical site visit for the verification period carried out by Team leader on 20/08/2015.

The verification team reviewed all the records of the sold electricity and the Credit note (issued by the MSEDCL; state electricity utility which is a government entity) for the current verification period and confirms that there is no change in the project design with respect to the registered PDD under CDM.

2.5 Resolution of Findings

The project is registered with the UNFCCC dated 04/10/2012 (UNFCCC ref no 7491) under the project title 'Wind power project in Maharashtra, India – Andhra Lake Phase - II'. Bureau Veritas Certification has reviewed the UNFCCC registered CDM-PDD and Validation report to confirm that all the outstanding issues regarding the project activity were resolved successfully during validation under CDM. The verification team confirms that there are no remaining issues or any material discrepancy in the registered documents on UNFCCC website and supporting documents mentioned under Appendix II of this report. However, during current verification period there were 03 Corrective Action Requests and 05 Clarification Requests raised and were subsequently closed by the verification team on the basis of correct and appropriate response by the Project participant. The closure of CAR(s) and CL are discussed under Appendix I of the verification report.

2.5.1 Forward Action Requests

There was no forward action request raised during the CDM validation stage. During current verification period, there was no outstanding discrepancy observed by the verification team. Hence no Forward Action Request was raised.

2.6 Eligibility for Validation Activities

Bureau Veritas Certification holds accreditation for validation of sectoral scope under which the current project activity falls.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

- ❖ The project activity is registered as CDM project activity by CDM-EB on 04/10/2012 (UNFCCC ref no 7491). The UNFCCC registered PDD was used during the course of supplementary validation and the technology used is validated at site as described in UNFCCC registered PDD.
- ❖ The crediting period for the Certified Emission Reductions (CER) under CDM is from 30/09/2013 as indicated on the UNFCCC website (<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1348755977.79/view>). The crediting period for the VCS has been considered from 19/08/2011 to 29/09/2013; the start date of current monitoring period is from the date of commissioning of first WTG in the project activity till one day prior to the start of crediting period of CDM project activity. The project participant has provided a declaration that the project shall not claim credits for the same GHG emission reduction under the VCS and the CDM. Hence the project crediting period is acceptable to the VCS validation team.

The validation team validated the following points under the project design:

- ✚ **Project scope, type, technologies and measures implemented, and eligibility of the project** - The project activity is applicable to 'Scope Number 1, Sectoral Scope – Energy industries (renewable/non-renewable sources). This project activity involves generation of energy (electricity) using wind energy (renewable source) conversion systems, and hence conforms to category no. 1. The project has applied approved methodology ACM0002 Version 12.3 and the project activity is eligible to apply this methodology. The validation team has validated the correctness of these by reviewing the registered PDD, validation report, document review such as commissioning certificates and power purchase agreement as well as interview with the project participant.
- ✚ **Project participant** - The project participants for the project activity concerned is M/s CLP Wind Farms (India) Private Limited. The validation has reviewed the Host Country Approval to confirm this.
- ✚ **Project start date** - The project start date for the project activity concerned is the earliest date on which 02 WTGs were commissioned i.e. 19/08/2011. The validation team has reviewed the commissioning certificate of the WTGs to confirm this.
- ✚ **Project crediting period** - The project crediting period for the project activity concerned is from the earliest date of commissioning of the WTGs till one day prior to the start date of crediting period of CDM project activity. Therefore, the crediting period for the project activity is from 19/08/2011 to 29/09/2013. The validation team has reviewed the commissioning certificate of all the WTGs and date of registration from the UNFCCC website (<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1348755977.79/view>) confirm this. Also the project participant has provided a declaration that the project shall not claim credits for the same GHG emission reduction under the VCS and the CDM both at same time. Hence the project crediting period is acceptable to the VCS validation team.
- ✚ **Project scale and estimated GHG emission reductions or removals** – The current project activity falls under project scale of “Project” and the estimated annual GHG emission reduction is 76,015 tCO₂e annually which is less than 300,000 tCO₂e per year which is in line with paragraph 3.9.1 of the VCS standard Version 3 dated 25 March 2015 v.3.5. The validation team has validated the correctness of these by reviewing the CDM registered PDD, validation report and emission reduction calculation sheet from the UNFCCC website (<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1348755977.79/view>).
- ✚ **Project activities** - In line with paragraph 3.11.10 of the Verified Carbon Standard Version 3 dated 25 March 2015 v.3.5; only a supplementary validation is to be carried out for sections 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4 and 1.13 of VCS - PD for all projects registered under CDM. Other sections were not required to be assessed. So further validation of the same was not been carried out by the verification team.
- ✚ **Project location**- The project activity involves the installation of Enercon make 63 numbers Wind Turbine Generator's (WTG) of capacity 0.8 MW. The project area is spread across located at Andhra Lake site, Khed and Maval taluk of Pune district in Maharashtra State in India. The validation team has validated the accuracy of the project location from registered PDD (/5/), validation report (/6/), document review such as commissioning certificates (/14/), power purchase agreement (/15/) as well as interview with the project participant and site visit conducted by one competent Validator (Part of Validation Team) on 20/08/2015.

✚ **Project compliance with applicable laws, statutes and other regulatory frameworks-** In line with paragraph 3.11.10 of the Verified Carbon Standard Version 3 dated 25 March 2015 v.3.5; only a supplementary validation is to be carried out for sections 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4 and 1.13 of VCS-PD for all projects registered under CDM. The Project compliance with applicable laws, statutes and other regulatory frameworks not included under these clauses.

✚ **Ownership and other programs**

- **Right of use** - The validation team has reviewed the documents like power purchase agreements, commissioning certificates, Credit Note approved and issued by MSEDCL and Calibration certificates issued by MSEDCL (which substantiate the right of use for the concerned project activity).
 - **Emissions trading programs and other binding limits** - India is non-Annex-I country as recognised by the Kyoto Protocol. It can be confirmed from the UNFCCC website (http://unfccc.int/parties_and_observers/parties/non_annex_i/items/2833.php). Hence, there are no GHG emission reduction targets or commitments for India and it does not fall under the purview of any compliance driven Emission Trading Programs. Furthermore, there are also no such voluntary emission trading programs similar to the VCS exist in India.
 - **Participation under other GHG programs-** The WTGs under the project activity has applied for CDM registration and got registered on 04/10/2012 under UNFCCC CDM EB with project reference number – 7491 which can be confirmed from the UNFCCC website (<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1348755977.79/view>).
 - **Other forms of environmental credit sought or received-** The WTGs under the project activity have applied for CDM registration and got registered on 04/10/2012 under UNFCCC CDM EB with project reference number – 7491 which can be confirmed from the UNFCCC website (<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1348755977.79/view>).
 - **Rejection by other GHG programs** - The project activity has applied for CDM registration and got registered on 04/10/2012 under UNFCCC CDM-EB. Other than CDM, the project activity has not applied under any other GHG programs like Gold Standard which can be confirmed from the website <http://www.cdmgoldstandard.org/our-projects/project-registry> and hence the project activity is not rejected under other GHG programs.

✚ **Additional information relevant to the project**

- **Eligibility criteria for grouped projects-** The project activity is not a grouped projects which can be confirmed from registered PDD, validation report, HCA and interview with the project participant.
- **Leakage management for AFOLU projects-** The concerned project is a wind project activity and hence is not an AFOLU project.
- **Commercially sensitive information-** There is no commercially sensitive information that has been excluded which the validation team confirms from the document review and interview with the project participant.

- **Any further information-** There is no additional information that may have a bearing on the eligibility of the project, the net GHG emission reductions or removals, or the quantification of project's site specific net GHG emission reductions or removals which the validation team confirms from the document review and interview with the project participant. Since, the project activity is registered under CDM with UNFCCC; it does not require further validation of monitoring methodology and considered to be validated with reference to registered project. The validation team however identified the inadequacies of the monitoring plan described in the registered PDD and the corrective actions/clarifications was raised (Refer Annexure I). The project participant revised the monitoring plan revising the frequency of calibration of meters from one year to five years. The revised monitoring plan is included in the VCS-PD. The validation team validated and confirms that the revised monitoring plan is in accordance with the applied methodology and by inclusion of one more monitored parameter the emission reductions achieved will lead to conservative estimate.

Validation Conclusion

The project activity meets criteria of CDM under UNFCCC for achieving estimated emission reductions. CDM is one of the approved programs under Verified Carbon Standard (VCS). However, a supplementary validation of the sections 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4 and 1.13 along with revision to monitoring plan was carried out to confirm that project is likely to achieve estimated emission reduction, which would not have been reduced in absence of the project activity. It was carried out in line with paragraph 3.11.10 of the Verified Carbon Standard Version 3 dated 25 March 2015 v.3.5 to confirm that project is likely to achieve estimated emission reduction, which would not have been reduced in absence of the project activity.

Thus, Bureau Veritas was able to conclude based on all the above criteria that the project activity is eligible to participate under the VCS Program.

3.2 Methodology Deviations

Not Applicable

3.3 Project Description Deviations

Not Applicable

3.4 Grouped Project

Not applicable as this is not a grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

It has been observed by the verification team that the project involves the installation of 63 numbers of 800 kW WTGs of Enercon make located at Andhra Lake site, Khed and Maval taluk of Pune district in Maharashtra State, India. All the 63 WTG's are leading to a cumulative capacity of the project as 50.4 MW, which is same as described in the registered CDM PD (Ref/5/). The entire power generated by the project activity is exported to the NEWNE grid of India with a firm energy purchase agreement with the MSEDCL (/15/).

During the site visit and document review of the CDM registered PDD and monitoring report, the verification team observed that the entire electricity generated from all these Wind Turbine Generator's is supplied to the grid, which is in line with the CDM registered PDD (/5/). The following table provides the details of implementation in detail.

Sr. No	WTG Location No	No of WTG	Commissioning Date	Capacity (MW)	Connected to Feeder no
1.	96, 97	02	19/08/2011	1.6	08
2.	107 -124, 511	18	12/12/2011	14.1	05
3.	19 – 32, 500	17	07/01/2012	13.6	03
4.	35, 36	02	09/02/2012	1.6	03
5.	190, 191, 193, 194, 195, 196, 197, 198, 200	09	13/02/2012	7.2	01
6.	204-209	06	03/03/2012	4.8	02
7.	201	01	03/03/2012	0.8	01
8.	199	01	22/03/2012	0.8	01
9.	202, 203, 210, 211, 212, 213, 214	07	22/03/2012	5.6	02
	Total	63		50.4	

All these WTGs are connected on 5 different feeders at 132/33kV MSEDCL Andra Lake Substation. There is pair of main and check meter on each feeder. All these meters are of bi-directional tri-vector type with an accuracy class of 0.2s.

The main meter readings are recorded monthly by representatives of the MSEDCL and the Project Participant at the individual feeders where Project participant WTGs are also connected along with project participant's other WTGs in the wind farm which are not part of this project. Based on this monthly recording, the MSEDCL issues the 'Credit note' based on which the Project Participant raises an invoice for payments.

Hence, the verification team confirms that the project activity has been implemented as per the description provided in the registered CDM PDD (/5/) and validated VCS-PD (/4/). The equipment necessary for GHG emission reductions are in place.

The inadequacies of Monitoring Report were reported in the CAR 3 in the protocol in Annexure I. The Project Participant responded with the revised monitoring report (Version 1.2, dated 10/09/2015) (/2/) addressing the findings of the Verification Team along with the relevant supporting documents. The verification team verified the responses and closed CAR 3. The revised Monitoring Report addresses the issues satisfactorily and is in line with the applicable guidelines.

The verification team confirms that no information about the project activity provided in the final monitoring report is different from that stated in the CDM registered PDD other than exclusion of some of the monitored parameters as described above, and which could have caused or is likely to cause any increase in the estimates of emission reductions during the future monitoring periods.

Compliance of Monitoring with the Monitoring Plan

The monitoring plan is in accordance with the UNFCCC approved methodology applied by the registered VCS project activity viz; ACM 0002, version 12.3.

The primary monitoring in the project activity is that of the net electricity supplied to the state electricity grid. The verification team hereby confirms that the registered monitoring plan is in accordance with the UNFCCC approved methodology applied by the registered CDM project activity. There is revision in monitoring plan requested during current verification as the frequency of calibration has been changed from annual to once in five years and is explained in detail in CL 5 in Annexure I of this report.

Corresponding to the Section 4 of VCS version 03 dated 25 March 2015 v3.5, Bureau Veritas Certification can confirm that the monitoring plan (except for Calibration frequency of meters) is in accordance with the approved methodology including applicable tool(s) applied by the Project.

Thus the verification team confirms that the actual operation of the project activity is in line with the description in the CDM-registered PDD. There was no other data or information provided in the monitoring report that was different from the description stated in the registered CDM-registered PDD and having caused or likely to cause any increase in the estimates of emission reductions in the future monitoring periods.

The Project participant has confirmed that there are no GHG emission reductions or removals generated by the project have been included in any emissions trading program or any other mechanism that includes GHG allowance trading. Also have not claimed any other form of environmental credits nor has participated or was rejected under any other GHG programs. The Project participant has also provided undertaking (/18/) to support the same in response verification team's clarification sought.

4.2 Accuracy of GHG Emission Reduction and Removal Calculations

Monitoring of the project activity parameters has been carried out in accordance with the monitoring plan, contained in the CDM-registered PDD.

The main parameters required by the registered monitoring plan and the manner in which the verification team has verified the information flow (from data generation, aggregation, to recording, calculation and reporting for these parameters) including values in the monitoring reports are described below:

- (a) **Quantity of net Electricity generation supplied by the plant to the grid in the year y ($EG_{\text{facility},y}$)** – This parameter is a calculated parameter, and is deduced as the difference between Electricity exported ($EG_{\text{export},y}$) and electricity imported ($EG_{\text{import},y}$) by the project activity. The verification team verified the net electricity supplied by all 63 WTG's of the project activity to the grid from the monthly Credit note issued by the MSEDCL (/16/) on a monthly basis. The verification team noted that the monthly energy statement (/16/) also indicates the values of the electricity export and electricity import.

$$EG_{\text{facility},y} = EG_{\text{export}} - EG_{\text{import}}$$

- (b) **Quantity of electricity exported by the Project to the grid in year y ($EG_{\text{export},y}$)** – Electricity exported to the grid is recorded by the energy meters at 05 feeders in the Andra Lake substation where all 63 WTGs are connected. The meter readings are taken by the representatives of the State Electricity Utility viz; MSEDCL and Project participant on a monthly basis. This value was verified from the Monthly Credit Note issued by the MSEDCL to the Project participant (/16/). This was further crosschecked with the invoices (/16/) raised by the Project participant on MSEDCL and was found to be correct.
- (c) **Quantity of electricity imported by the Project to the grid in year y ($EG_{\text{import},y}$)** - The electricity imported by the project activity from the grid is recorded by the energy meters at 05 feeders in the Andra Lake substation where all the 63 WTGs are connected, which also monitors the electricity export. The meter readings are taken by the representatives of the State Electricity Utility viz; MSEDCL and Project participant on a monthly basis. This value was verified from the Monthly Credit Notes issued by the MSEDCL to the Project Participant (/16/). The invoices raised by Project participant (/17/) have been used by the verification team as a cross-check against the primary data viz; the monthly credit notes and were found to be correct.

Parameters determined ex-ante:

$EF_{\text{grid CM},y}$, Combined margin CO₂ emission factor for NEWNE grid - The emission factor considered for the current monitoring period is based on the CEA database version 06 which is latest version available to the project participant. Emission factor value of 0.9487 tCO₂e/MWh, is used in the monitoring report and it has been verified against the CEA Database and was found to be consistent. CEA is the sole authority for the publication of such data in India. It is a part of the Ministry of Power of the Government of India and therefore, is a source of authentic and credible data for the purpose of the determination of the grid emission factor.

All records like monthly Credit Notes (/16/), Invoice raised by the Project participant (/17/), commissioning certificates, Calibration certificates (/19/), etc. related to the project activity operations are also well maintained by the Project Participant. The data was found to be recorded diligently.

As per the methodology ACM0002 Version 12.3 and the CDM registered PDD, the emission reductions for the Project are calculated as the baseline emissions minus the project emissions and leakage. Hence the emission reduction is determined by the following formula:

$$ER_y = BE_y - PE_y - LE_y$$

Where,

ER_y = Emission reductions

BE_y = Baseline emissions

PE_y = Project emissions

LE_y = Leakage Emissions

Baseline Emissions

It is calculated as the product of Net electricity supplied to the grid multiplied with Grid Emission Factor and is determined using the following formula:

$$BE_y = EG_{PJ,y} * EF_{grid,CM,y}$$

$$= 187,358 * 0.9487 = 177,746 \text{ tCO}_2\text{e}$$

Where,

EF_{grid, CM,y} = GHG emission factor of the NEWNE Grid, calculated ex-ante in the registered PDD as 0.9487 tCO₂e/MWh

EG_{PJ,y} = Net electricity supplied to the grid (MWh)

Project Emissions

Project emission is considered to be nil which is in line with the applied methodology ACM 0002 version 12.3.

Leakage Emissions

No leakage needs to be considered according to ACM0002 Version 12.3

Emission reductions

The emission reductions during the monitoring period from 19/08/2011 to 29/09/2013 are calculated as:

$$ER_y = BE_y - PE_y - LE_y$$

$$= 177,746 - 0 - 0$$

$$= 177,746 \text{ tCO}_2\text{e}$$

4.3 Quality of Evidence to Determine GHG Emission Reductions and Removals

The verification team confirms that all parameters stated in the registered monitoring plan were monitored throughout the current verification period and data on the same was available.

The following actions were taken to ensure that the most conservative assumption theoretically possible has been made:

1. Ensured that the data that directly affect emission reductions are from official sources.
2. The values of net electricity exported to the grid as indicated in the Credit Note (/16/) were also cross-checked with the invoices raised by the Project participant on MSEDCL (/17/).
3. The revised monitoring plan indicates the frequency of accuracy testing/ calibration of the main and check meters as once in 5 years. The energy meters of the project activity are calibrated and sealed by testing division of MSEDCL and Project participant has no role to play in the same. Following are the detail of the calibration of meters that took place during the current monitoring period.

Feeder No	Meter Serial No	Date of Calibration	Validity of calibration	Actual date of calibration	Comment	Delay
01	13099002 (MM) 13099006 (CM)	12/11/2011	11/11/2016	NA	Error within permissible limits of error	NIL
02	13098999 (MM) 13099007 (CM)	12/11/2011	11/11/2016	NA	Error within permissible limits of error	
03	13099003 (MM) 13099000 (CM)	12/11/2011	11/11/2016	NA	Error within permissible limits of error	NIL

Feeder No	Meter Serial No	Date of Calibration	Validity of calibration	Actual date of calibration	Comment	Delay
05	13098998 (MM) 13099001 (CM)	12/09/2011	11/09/2016	NA	Error within permissible limits of error	NIL
08	13098996 (MM) 13098997 (CM)	01/08/2011	31/07/2016	NA	Error within permissible limits of error	NIL

The calibration reports for all meters indicate that all the meters were within their permissible limits of error. Verification team further observed that there have been no case of meter failure or meter change during the current verification period and hence confirms there have been no instances of data uncertainty in the current verification period.

- There were no major shutdown and/or emergencies situations during the current verification period. The verification team observed that there is no FAR raised during the validation of the project activity.

All the data was available and monitored in accordance with the registered monitoring plan. There is no instance of data not being available during the current verification period. The action taken to ensure that the most conservative assumption theoretically possible has been made by the project participant was to ensure that the data that directly affect emission reductions are taken from official sources.

Appropriate methods and formulae for calculating baseline emissions, have been followed. There are no project emissions to be considered as per the applied methodology and also since there is no transfer of equipment involved, leakage also do not apply. Hence the verification team confirms that the emission reductions claimed during the current monitoring period are conservative and reliable.

4.4 Non-Permanence Risk Analysis

Not Applicable

5 VERIFICATION CONCLUSION

The verification scope is an independent and objective review of the VCS Project description, the project's baseline study and monitoring plan and other relevant documents. The review is to verify the implementation of monitoring plan as defined in validated VCS PD. The period for verification is from 19/08/2011 to 29/09/2013 (inclusive of both the days).

The verification of the monitored data indicates the emission reductions and the amount for emission reductions for the monitoring period are provided below.

Monitoring Period		Total Emission Reductions Achieved (tCO ₂ e)
From	To	
19/08/2011	31/12/2011	882
01/01/2012	31/12/2012	89,458
01/01/2013	29/09/2013	87,406
TOTAL		177,746

The calculations of emission reductions are found to be correct. The baseline for the NEWNE regional grid has been taken for arriving at baseline emissions. The grid emission factor of 0.9487tCO₂e/MWh for NEWNE regional grid was found to be correct.

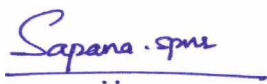
Appropriate procedures for maintaining the confidentiality and safe custody of the validation or verification documentation and for retaining them for a period sufficient to meet the needs of the client, the responsible parties, the GHG programmes to which they subscribe, and in accordance with legal and professional requirements of record retention have been established.

The verification team confirms that the project is implemented as planned and described in the Registered PDD with UNFCCC under CDM and validated VCSPD. The monitoring mechanism is effective and reliable. The reported data are accurate and correct based on all the records provided to the verification team during the verification as provided in annexure-II. The installed equipment being essential for generating the emission reductions run reliably and the measuring equipment/instruments are well within the frequency of calibration.

Verification period: From 19 August 2011 to 29 September 2013

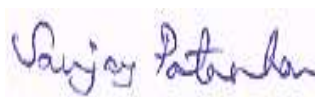
Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2011	882	0	0	882
2012	89,458	0	0	89,458
2013	87,406	0	0	87,406
Total	177,746	0	0	177,746



Ms. Sapana Pednekar
(Team Leader)
19/09/2015

Mumbai, India



Mr. Sanjay Patankar
(Internal Technical Review)
19/09/2015

Mumbai, India

ANNEXURE I: DETAILS OF CORRECTIVE ACTIONS AND CLARIFICATION REQUESTED

Draft report clarifications and corrective action requests by validation team	Reference/Section	Summary of project owner response	Validation team conclusion
CAR 1 The contact information on the cover page is not complete in nature as per latest version of project description template (e.g. website address and email id are not provided).	Cover page of VCS- PD	/MD-31Aug15/ PD Ver02 is now revised. Cover page is now updated.	The required information is now provided in the revised VCS- PD and is found to be correct. Hence CAR 1 is closed .
CL 1 As per the commissioning certificates submitted, it was observed that first WEG in Phase II was commissioned on 19.08.2011 and not 23.10.2011. So why 19.08.2011 should not be considered as the project start date?	Section 1.5 of VCS- PD	/MD-31Aug15/ PD Ver02 is now revised to 19/08/2011 as start date.	The start date of crediting period is revised from earlier considered 23.10.2011 to 19.08.2011. Verification team noted that as per VCS definition of start date is the date when the project activity first started reducing Emission Reductions. Considering the same requirement, 2 WEGs of the project activity were first commissioned on 19/08/2011 and this the earliest start date when the project activity started reducing emission reductions. Hence the change in the start date of the crediting period was accepted by the verification team. Thus CL01 is vacated .
CAR 2 1) The date of registration of the project activity with CDM is mentioned as 10/08/2012 which is not matching with the date of registration date on UNFCCC. 2) Also the weblink referred to in foot	Section 1.6 of VCS-PD	1. /MD-31Aug15/ PD Ver02 is now revised. PP had requested UNFCCC CDM EB for change in crediting period which is approved and now reflects on the UNFCCC website. Requested to recheck UNFCCC webpage. 2. /MD-31Aug15/ The error link is now removed	1. The date of registration of the project activity with UNFCCC under CDM is 04/10/2012 and is now correctly stated in all relevant sections of revised VCS-PD. Hence point 01 is closed . 2. The correct web link is now provided in the revised VCS-PD.

Draft report clarifications and corrective action requests by validation team	Reference/ Section	Summary of project owner response	Validation team conclusion
note 1 is referring to some other CLP project; 3) In section 1.7, table 2: under 'year' column as per VCS_PD guidelines, the specific year under consideration is not indicated and just Year 1, 2, etc. is mentioned. 4) In section 1.9 of VCS PD, the date of commissioning for Loc # 19-34, 35-36, 96-97, 199, 500, 511 indicated are not are not matching with the corresponding commissioning certificates issued by MSEDCL;	Section 1.6 of VCS-PD Section 1.7 of VCS-PD Section 1.7 of VCS-PD	3. /MD-31Aug15/ Year title is now updated and correct information is mentioned in the updated PD. 4. /MD-31Aug15/Date of commissioning for the WTG location Loc # 19-34, 35-36, 96-97, 199, 500, 511 is now updated, and is matching with the corresponding commissioning certificates issued by MSEDCL	Hence point 02 is closed. 3. The years are correctly mentioned in the revised VCS- PD. Hence this point is closed. 4. The commissioning dates of all the WTGS are now correctly indicated in the revised VCS-PD. Hence this point is closed. Based on the appropriate corrections made in the revised PD, CAR 02 is closed.
CL 2 1) The CDM registration date is 04/10/2012 which also happens to be start date of CDM Crediting period for this project, so essentially the end date of the current monitoring period to end one day prior to CDM crediting period i.e 03/10/2012 whereas in MR and ER sheet the current monitoring period under consideration is till 30/09/2013 which may lead to double accounting. Hence pp to clarify on this. 2) In section 1.12.1, the details of	1.2 of VCS PD and MR,1.3, 1.5, 1.7, 1.10 and 1.12.1, 1.12.3of VCS-PD	1. /MD-31Aug15/ Declaration letter & Approval email copy submitted to CDM EB are has been submitted to DOE for perusal which is now approved. Requested to refer UNFCCC webpage which mentions change in crediting period start date from 04/10/2012 to 30/09/3013. 2. /MD-31Aug15/ PD Ver02 is now revised. The details of issuing authority for Commissioning certificates and power purchase agreement are now mentioned. 3. /MD-31Aug15/ PD Ver02 is now revised. Contradictory statement removed, and in line with the start date of CDM crediting	1. The email communication done with the UNFCCC for delaying start date of the crediting period of CDM project is provided to the verification team and the undertaking dated 07/09/2015 confirms that emission reductions for the period under current monitoring period will not be claimed under any other GHG program. Based on above response, point 01 is closed. 2. The details of issuing commissioning certificate and PPA are now provided in the revised VCS-PD. Hence this point is closed.

Draft report clarifications and corrective action requests by validation team	Reference/ Section	Summary of project owner response	Validation team conclusion
issuing authority for Commissioning certificates and power purchase agreement are not found to be stated transparently 3) In Section 1.12.3, it is stated as “the VCUs that are claimed are from the date of Commissioning till 30/09/2013” which is contradicting the start date of CDM crediting period i.e. 4/10/2012. 4) As per statement in section 1.12.5, the emission reductions are being claimed for the pre-registration period (i.e till 03/10/2012) however monitoring period mentioned elsewhere in VCS-PD is till 30/09/2013. Please clarify.		period 4. /MD-31Aug15/ PD Ver02 is now revised. Contradictory statement removed, and correct dates have been provided.	3. The details of issuing commissioning certificate and PPA are now provided in the revised VCS-PD. Hence this point is closed. 4. The email communication done with the UNFCCC for delaying start date of the crediting period of CDM project is provided to the verification team and the undertaking dated 07/09/2015 confirms that emission reductions for the period under current monitoring period till 29/09/2013 will not be claimed under any other GHG program. Based on above response, point 04 is closed. Based on sufficient responses and evidences provided by the Project Participant, CL 02 is closed.
CL 3 Project participant to provide an undertaking to confirm that Project participant shall not claim for GHG reduction credits for the current monitoring period that is under consideration.	1.12.2 of VCS-PD	/MD-31Aug15/ Declaration letter has been submitted to DOE for perusal that confirms that Project participant shall not claim for GHG reduction credits for the current monitoring period that is under consideration	The undertaking dated 07/09/2015 confirms that emission reductions for the period under current monitoring period (19/08/2011 – 29/09/2013) will not be claimed under any other GHG program. Based on above response, CL03 is closed
CAR 3 1. Project ID of VCS is not provided on cover page of VCS-monitoring report.	Cover page of VCS-MR	1. /MD-31Aug15/ MR Ver02 has been updated. Project ID is now updated. 2. /MD-31Aug15/Start date is now updated,	1. The project ID is now incorporated. Hence point 01 is closed. 2. The dates are corrected now in all

Draft report clarifications and corrective action requests by validation team	Reference/Section	Summary of project owner response	Validation team conclusion
2. There is inconsistency in the start date of the current monitoring period observed in various sections of the VCS MR which is provided to the verification team. 3. There is inconsistency in methodology version stated in the section 1.8 and 4.4 as compared to the version stated in the CDM registered PDD and other places in the MR and VCS-PD. 4. In section 3.2, under monitoring equipment, the meters used to monitor the data/parameter including type, accuracy class, and serial number of equipment, are not provided. 5. The details of calibrations with explicit details of replacement of meters, type of meters, accuracy class of meters, etc. that have taken place during the current monitoring period are not provided under section 3.3 or elsewhere in the MR.		and inconsistency in the start date of the current monitoring period observed in various sections of the VCS MR has been removed 3. /MD-31Aug15/Methodology version is now updated at all sections of VCS MR & PD as per registered PDD 4. /MD-31Aug15/Kindly refer Annex 1 of updated MR. Details of the meters used to monitor the data/parameter including type, accuracy class, and serial number of equipment are provided 5. /MD-31Aug15/ Kindly refer Annex 1 to get Type, Accuracy Class, Serial number & Change in Meter information – Details have been updated in revised MR	the relevant sections of the MR. Hence point 02 is closed. 3. The version is corrected. Hence point 03 is closed. 4. All the required details are now provided in the revised MR and are found to be appropriate. Hence point 4 is closed. 5. The details of calibration along with accuracy class and all the other required details are now provided in the revised MR. Hence point 5 is closed. The corrections are made appropriately. Hence CAR 03 is vacated.
CL 4 1) Credit Notes are provided only till December 2012 whereas monitoring	ER and Section 3.3, sheet	1. /MD-31Aug15/ Credit notes have been provided for the period starting January 2013 upto 30//09/2013. The documentary	1. Missing period Credit notes are now provided to the verification team. Hence point 01 is closed.

Draft report clarifications and corrective action requests by validation team	Reference/ Section	Summary of project owner response	Validation team conclusion
period under consideration is till 30/09/2013. Hence ER achieved during this period could not be verified. 2) It is not evident from the ER sheet or monitoring report description, whether there was any apportioning applied for the mismatch of dates with the billing cycle at the end of the current monitoring period. Kindly clarify.		evidence has been submitted now to DOE for persual. 2. Yes , apportioning has been applied. Please refer to the method at Section 3.3 of MR which is in accordance to registered PDD. Further details of how apportioning has been done is provided in the ER sheet.	2. There is no apportioning applied for mismatch of dates with the billing cycle during the current monitoring period, as the readings are referred till the last day of JMR for month of September. The verification team verified the JMR for month of October 2013, which falls under CDM Crediting period and was able to confirm that in JMR the initial reading for the month of October 2013 was the final reading of the meters while recording JMR for month of September 2013. Thus, it was ensured that there is no double counting of data. Based on it CL04 is closed.
CL 5 During review of Calibration Certificates, it was observed that yearly calibration/meter testing frequency was not followed during some instances in the current monitoring period. How was this delay considered in the calculation of Emission Reductions?		/MD-31Aug15/ Monitoring plan will remain same as CDM registered PDD Section B.7. Only change is in Calibration Frequency of Energy Meters (Main & Check Meter), which is 5 years. Calibration Frequency – As per VCS Standard 3.6.15 “Where measurement and monitoring equipment is used, the project proponent shall ensure the equipment is calibrated according to the equipment's specifications and/or relevant national or international standards.”	The Project proponent has opted for revision to the CDM Registered Monitoring Plan. CDM registered monitoring plan stated the calibration frequency to be once in a year. However in line with Indian Regulation - Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 which is National Regulation that is available in public domain, the Project Proponent has opted for changing the frequency to 5 years

Draft report clarifications and corrective action requests by validation team	Reference/ Section	Summary of project owner response	Validation team conclusion
		Hence, PP has opted for frequency of energy meter to be at least once in 5 years as per following National Regulation. Indian Regulation ² - Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 First Calibration was done at the time of WTG Commissioning (dates are mentioned at Section 1.7 of MR) as per Commissioning Certificates submitted to DOE, next calibration is due after 5 years as per PD Section 4.3. Details along with calibration reports have been provided. There is no replacement of Energy Meter either at Main / Check meter.	considering the current frequency of calibration taken up by MSEDCL. This also fulfills the requirement stated in VCS standard, section 3.6.15. Hence verification team accepts the change. The other description of the Monitoring plan in Registered CDM PDD has been retained in the VCS activity also. Thus, the Clarification sought earlier by the verification team stands cancelled.

² http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

ANNEXURE II: DOCUMENTS REFERRED DURING VERIFICATION AND VALIDATION OF THE PROJECT ACTIVITY

- /1/ VCS Monitoring Report, version 01, dated 15/07/2015
- /2/ Final VCS MR version 2.2 dated 19/09/2015
- /3/ VCS Project Document , dated 15/07/2015 version 01
- /4/ Final VCS PD version 02.1 dated 19/09/2015
- /5/ CDM PDD registered with UNFCCC project reference no. 7491
- /6/ Validation report vide ref no CDM-MUM-0061740 (revision 4.1) dated 24/09/2012 registered with UNFCCC under CDM with reference no. 7491
- /7/ Estimated Emission Reduction Calculation Sheet as per registered project UNFCCC reference no 6882
- /8/ Proof of registration as CDM Project activity (<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1348755977.79/view>)
- /9/ VCS Monitoring report template Current Version: v3.3 dated on 8 October 2013
- /10/ Blank VCS PD Format with Guidelines for completion of VCS Project description template Version: v3.3 dated 8 October 2013
- /11/ Verified Carbon Standard Version 3, v3.5 dated 25 March 2015 v.3.5
- /12/ VCS Program Guide Version 3 v3.5 dated 8 October 2013
- /13/ Emission Reduction Calculation Sheet version 3
- /14/ Commissioning certificate for all the WTGs of the project activity
- /15/ Power Purchase Agreements signed between Project Participant and MSEDCL
- /16/ Monthly JMR and Credit notes issued by MSEDCL for the current verification period
- /17/ Copy of all invoices raised to MSEDCL by Project participant for net electricity exported to the grid during the current verification period
- /18/ Declaration from CLP Wind Farms (India) Private Limited that the project shall not claim credits for the same period under any other GHG program dated 07/09/2015
- /19/ Calibration certificates issued by MSEDCL for the current monitoring period

ANNEXURE III: LIST OF PERSONS INTERVIEWED

List persons interviewed during the verification process or persons that contributed with other information that are not included in the documents listed above.

- /1/ Mr. Naman Sanghvi CLP Wind Farms (India) Private Limited
- /2/ Mr. Abhijit Anand Deputy Manager, CLP Wind Farms (India) Private Limited
- /3/ Mr. Sunil Surose Technician, WindWorld India Private Limited

ANNEXURE IV: Curricula Vitae of the Verification Team Members

Ms. Sapana Pednekar - Team Leader

Bureau Veritas Certification, Lead Verifier - Climate change

She is a Post Graduate in Environmental Science from University of Pune, India and holds a PGDBA in Financial Management from Welinkars School of Management. She has total Industrial work experience of 10 years in the field of environmental studies of which more than 7 years' experience is in the field of CDM and VCS. She is working in Bureau Veritas Certification (India) Pvt. Ltd. for last more than 5 years and has undergone training related to Clean Development Mechanism and is currently involved in validation and verification of more than 50 CDM/ VCS project activities. She has undergone and successfully completed ISO 14001:2004 standard, ISO 50001:2011 standard Lead Auditor Courses and ISO 14064:2006 Standard Lead verifier course.

Sanjay Patankar, Internal Technical Reviewer

Bureau Veritas Certification, Lead verifier – Climate Change

Educational qualifications: B.E. (Mech.) M.E. (Mech.)

He has over 20 years of experience in engineering manufacturing industry covering various functions like enterprise management, product design, engineering, tool & die design, improvements in the production shop, quality assurance & control and systems planning and implementation, including ISO 9001 based quality management systems. Working for the last 3 years in Bureau Veritas Certification (India) Pvt. Ltd. as Lead Auditor for ISO 9001, 14001 and OHSAS 18001 standards/specifications.