
VERIFICATION AND CERTIFICATION REPORT

M/s Enercon (India) Limited

**Bundled Wind power project in
Jaisalmer (Rajasthan in India)
managed by Enercon (India) Ltd.**

UN PA 0310

**Monitoring Period 3: from 01/09/2011 to 31/12/2012
(Both days inclusive)**

SGS Climate Change Programme

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Date of Issue:		Project Number:	
29/04/2013		CDM.VER1378 MP3	
Project Title:			
Bundled Wind power project in Jaisalmer (Rajasthan in India) managed by Enercon (India) Ltd.			
Organisation:		Client:	
SGS United Kingdom Limited		M/s Enercon (India) Limited	
Publication of Monitoring Report:			
Monitoring Period:		from 01/09/2011 to 31/12/2012	
First Monitoring Version and Date:		Version 01 dated 01/03/2013	
Final Monitoring Version and Date:		Version 05 dated 26/04/2013	
Summary:			
<p>SGS United Kingdom Ltd has performed the 3rd periodic verification of the CDM project "Bundled Wind power project in Jaisalmer (Rajasthan in India) managed by Enercon (India) Ltd.", with UNFCCC reference number of 0310, registration date of 29/05/2006 and crediting period from 01/07/2004 to 30/06/2014. The verification includes confirming the implementation of the monitoring plan in the revised PDD which was approved on 13/07/2012 and the application of the monitoring methodology as per ACM0002 version 04 dated 28/11/2005. A site visit was conducted to verify the data submitted in the monitoring report. SGS confirms the following has been reviewed:</p> <ul style="list-style-type: none"> (a) The revised registered PDD (approved on 13/07/2012)^{/1/}, including the monitoring plan and the corresponding validation report^{/14/}; (b) Monitoring report, previous verification reports^{/13/}, The applied monitoring methodology; (c) Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board; (d) All information and references relevant to the project activity's resulting in emission reductions. <p>The project activity involves electricity generation by wind electricity generators (WEG) and supplying the same to the NEWNE grid. This is renewable energy generation which can replace the fossil fuel dominated grid connected electricity generation. The project activity involves the installation of 90 WEGs of capacity 0.6 MW each at Soda village in Jaisalmer district of Rajasthan, India, reaching a total installed capacity of 54 MW. The generated electricity is evacuated to the RRVNL state grid substation.</p> <p>SGS confirms that the project is implemented in accordance with the Validated and Registered Project Design Document (approved on 13/07/2012). The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information seen and evaluated we confirm that the implementation of the project has resulted in 79,866 tCO₂e emission reductions during period 01/09/2011 up to 31/12/2012.</p>			
Subject:			
CDM Verification			
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Name: Siddharth Yadav			
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Abbreviations

BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CEA	Central Electricity Authority
CER	Certified Emission Reductions
CL	Clarification Request
CMP or COP/MOP	Conference of Parties serving as the Meeting of the Parties
CO ₂	Carbon Dioxide
CoP	Conference of the Parties
CT	Current Transformer
DOE	Designated Operational Entity
DR	Document Review
EB	Executive Board
EF	Emission Factor
EIL	Enercon India Limited
ER	Emission Reduction
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
ISO	International Organisation for Standardisation
JMR	Joint Meter Reading
kWh	Kilo watt hour
LCS	Local Controller System
MGR	Monthly Generation Report
MP	Monitoring Plan
MR	Monitoring Report
MW	Mega watt
MWh	Mega Watt hour
NEWNE	North East West North-East
O&M	Operation and Maintenance
OM	Operating Margin
PDD	Project Design Document
PLF	Plant Load Factor
PP	Project Participant
PPA	Power Purchase Agreement
QA/QC	Quality Assurance/Quality Control
RERC	Rajasthan Electricity Regulatory Commission
RMP	Revised Monitoring Plan
RPTCL	Rajasthan Power Transport Company Limited
RRVNL	Rajasthan Rajya Vidyut Prasaran Nigam Limited
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard
WEG	Wind Electricity Generator

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1. Introduction

1.1 Objective

SGS United Kingdom Ltd has been contracted by M/s Enercon (India) Limited (one of the project participants of the project) to perform an independent verification of its CDM project "Bundled Wind power project in Jaisalmer (Rajasthan in India) managed by Enercon (India) Ltd". CDM projects must undergo periodic audits and verification of emission reductions as the basis for issuance of Certified Emission Reductions (CERs).

The objectives of this verification exercise are, by review of objective evidence, to establish that:

- The emissions report conforms with the requirements of the monitoring plan in the registered PDD and the approved methodology; and
- The data reported are complete and transparent.

1.2 Scope

The scope of the verification is the independent and objective review and ex post determination of the monitored reductions in GHG emission by the project activity. The verification is based on the validated and registered project design document and the monitoring report. The project is assessed against the requirements of the Kyoto Protocol, the CDM Modalities and Procedures and related rules and guidance.

SGS has, based on the recommendations in the Validation and Verification Standard, employed a risk-based approach in the verification, focusing on the identification of significant reporting risks and the reliability of project monitoring.

Due professional care has been exercised and ethical conduct has been followed by the assessment team during the verification process. The verification report is a fair presentation of the verification activity.

The verification is not meant to provide any consulting towards the Client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project design.

1.3 Project Activity and Period Covered

This engagement covers emissions and emission reductions from anthropogenic sources of greenhouse gases included within the project boundary of the following project and period.

Title of Project Activity: Bundled Wind power project in Jaisalmer (Rajasthan in India) managed by Enercon (India) Ltd.

UNFCCC Registration Number: 0310

Monitoring Period Covered in this Report: 01/09/2011 to 31/12/2012

Project Participants: Host Country: India
M/s Enercon (India) Limited
Annex I Country: Netherlands

1. Netherlands' Ministry of Infrastructure and the Environment (IenM)
2. International Finance Corporation as Trustee of the IFC-Netherlands Carbon Facility (INCaF)

Location of the Project Activity: Soda village in Jaisalmer District of Rajasthan state in India.

The project activity involves electricity generation by WEGs and supplying the same to the NEWNE grid. This is a renewable energy generation which can replace the fossil fuel dominated grid connected electricity generation. The project activity involves the installation of 90 WEGs, with a capacity 0.6MW each, at Jaisalmer district of Rajasthan, India, reaching a total installed capacity of 54 MW. The generated electricity is evacuated to Rajasthan Rajya Vidyut Prasaran Nigam Limited (RRVPNL) grid substation. The first WEG was commissioned on 29/09/2003 and last WEG was commissioned on 30/06/2004 as mentioned in the commissioning certificates^{11/}.

All 90 WEGs are fully functional and this was verified by the assessment team during the site visit. Technical details of the WEGs with respect to installation place and capacity have been verified during the site visit and found to be consistent with the details provided in the revised registered PDD^{1/} approved on 13/07/2012.

2. Methodology

2.1 General Approach

SGS performs the verification work using a Periodic Verification Checklist prepared following the VVS. The Periodic Verification Checklist describes the verification approach and the sampling plan.

The checklist gives the assessment team a full understanding of:

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

Using the Periodic Verification Checklist, SGS verified the implementation of the monitoring plan and the data presented in the Monitoring Report for the period in question. This involved a site visit and a desk review of the monitoring report. This verification report describes the findings of this assessment.

Only verification activities undertaken after the publication of the monitoring report on the UNFCCC CDM website were used as a basis for SGS to conclude our verification and submit a request for issuance of CERs to the Board.

2.2 Verification Team for this Assessment

A team of competency has been selected to perform the verification of the project.

Name	Role
Sudeep Kodialbail	Lead Assessor; Local Assessor and Technical Area Expert (T.A 1.2)
Ravikant Soni	Assessor

2.2.1 Review of Documentation

The validated PDD, the monitoring report submitted by the client and additional background documents related to the project performance were reviewed. A complete list of all documents reviewed is attached in section 8 of this report.

2.2.2 Site Visits

As part of the verification, the following on-site inspection has been performed by Sudeep Kodialbail (Lead Assessor; Local Assessor and Expert).

Location: District-Jaisalmer; State-Rajasthan; India	
Date: 21/03/2013 to 23/03/2013	
Coverage:	Source of Information / Persons Interviewed
<ul style="list-style-type: none"> Monitoring report Project design and implementation Conformance with Registered PDD and approved RMP Monitoring procedure Emission reduction calculations 	Mr. Saujanya Kumar (Asst Manager CDM Corporate; Enercon) Mr. Nishant Saudager (Manager Operations; Enercon)
<ul style="list-style-type: none"> Technical equipment and operation Data collection, operations and monitoring procedure Monitoring equipment testing and calibration Data uncertainty QA/QC procedures 	Mr. Nishant Saudager (Manager Operations; Enercon)

2.3 Reporting of Findings

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

In general, where insufficient or inaccurate information is available and clarification or new information is required the team shall raise a Clarification Request (CL) specifying what additional information is required.

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

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

The verification process may be halted until this information has been made available to comply with the requirements of the CDM Executive Board. Failure to address a CL may result in a CAR. Information or clarifications provided as a result of a CL may also lead to a CAR.

A clarification request (CL) will be raised if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met. All CARs and CLs raised during verification shall be resolved prior to submitting a request for issuance.

Corrective Action Requests and Clarification Requests are raised in the Periodic Verification Checklist. The Project Developer is given the opportunity to "close" outstanding CARs and respond to CLs.

Forward Action Requests (FARs) may be raised during verification for actions where the monitoring and reporting require attention and/or adjustment for the next verification period, which are for the benefit of future projects and future verification activities. These have no impact upon the completion of the verification activity.

All CARs, CLs and FARs for this verification period are included in this report.

2.4 Internal Quality Control

Following the completion of the assessment process and a recommendation by the Assessment Team, all documentation will be forwarded to a Technical Review Team. The task of the Technical Review Team is to check that all procedures have been followed and all conclusions are justified. The Technical Reviewer will either accept or reject the recommendation made by the assessment team.

Technical Review Team

Name	Role
Harsh Raval	Technical Reviewer and Technical Area Expert TA 1.2

3. Verification Findings

3.1 Project Implementation

This project activity is the generation of electricity from WEGs and supplying the generated electricity to the Northern grid of India (which is part of NEWNE grid). The project, located at Jaisalmer district of Rajasthan state in India, has an installed capacity of 54 MW (90 WEGs x 0.6 MW/WEG). The investors have signed a PPA^{/12/} with RRVNL for the sale of electricity to the grid. The project was registered as a CDM project on 29/05/2006^{/10/}.

This is the third verification of the project activity covering the period from 01/09/2011 to 31/12/2012.

The project has been implemented; equipment installed and is being operated as described in the registered PDD (approved on 13/07/2012)^{/1/}. The monitoring plan implemented during the current monitoring period is in compliance with the applied methodology^{/9/}. This was verified during the site visit.

The project activity WEGs have been commissioned in between 29/09/2003 and 30/06/2004 as mentioned in the Monitoring Report^{/2/}. All details mentioned in the table below have been verified against the commissioning certificates^{/11/} and is found to be correct.

Name of client	No. of WEGs	Installed Capacity (MW)	Commissioning date
Enercon Wind Farms (Jaisalmer) Pvt. Ltd.	41	25.2	Commissioned in 5 phases from 26/03/2004 to 12/06/2004
Compucom Software Ltd.	2	1.2	10/03/2004
NuPower Renewables Ltd. (Formerly Shree Ram Transport Finance Ltd.)	7	4.2	29/09/2003
BSL Limited	4	2.4	10/03/2004
LA-OPALA - RG Ltd.	1	0.6	10/03/2004
Desai Brothers Ltd	5	3.0	29/09/2003
Hindustan Platinum Pvt. Ltd.	2	1.2	10/03/2004
Dinesh Pouches Ltd-I	3	1.8	29/09/2003
Enercon Wind Farm (Tungbhadra) Pvt Ltd (Formerly Venlon Polyester Film Ltd)	3	1.8	31/10/2003
Enercon Wind Farm (Tungbhadra) Pvt Ltd (Formerly Texmo Industries Ltd.)	2	1.2	30/11/2003
Enercon Wind Farm (Tungbhadra) Pvt Ltd (Formerly Dinesh Pouches Ltd-II)	2	1.2	24/12/2003
Enercon Wind Farm (Tungbhadra) Pvt Ltd (Formerly Texmo Industries Ltd. -II)	1	0.6	10/03/2004
Enercon Wind Farm (Tungbhadra) Pvt Ltd (Formerly Revathi Equipment Ltd.)	3	1.8	10/03/2004
Enercon Wind Farm (Tungbhadra) Pvt Ltd (Formerly R. K. Premises Pvt. Ltd.)	1	0.6	03/03/2004
Enercon Wind Farm (Tungbhadra) Pvt Ltd. (Formerly R. K. Marbles Pvt. Ltd.)	6	3.6	03/03/2004
Enercon Wind Farm (Tungbhadra) Pvt Ltd. (Formerly Supreme Buildstates Pvt. Ltd..)	1	0.6	03/03/2004

Name of client	No. of WEGs	Installed Capacity (MW)	Commissioning date
Enercon Wind Farm (Tungbhadra) Pvt Ltd. (Formerly Premier Buildstates Pvt. Ltd.)	1	0.6	03/03/2004
Enercon Wind Farm (Tungbhadra) Pvt Ltd. (Formerly Renaissance Asset Management Co. Pvt. Ltd.)	2	1.2	21/06/2004
Enercon Wind Farm (Tungbhadra) Pvt Ltd (Formerly Texmo Precision Casting)	3	1.8	30/06/2004

In addition to the physical inspection of the site, the following documents have been reviewed by the assessment team during the site visit to verify the project implementation:

- Commissioning certificates^{/11/}
- Power Purchase Agreement^{/12/}
- Invoices^{/5/} raised by the PP to state grid authority(RRVPNL)
- Calibration/Testing certificates^{/8/} of all energy meters
- Monthly JMR^{/4/} at metering point located at Amarsagar substation
- Monthly generation report^{/6/} (LCS) sourced from SCADA provided by Enercon.
- Generation break-up^{/7/} sheets prepared by the O&M contractor which is based on the monthly JMR^{/4/} reading and the LCS reading^{/6/}

The assessment team confirms that there are no changes in the project design against the registered PDD (approved on 13/07/2012)^{/1/}. The project implementation related information provided in the Monitoring Report is consistent with that stated in the registered approved PDD^{/1/}.

The project was checked against the applicability criteria in the applied methodology ACM0002 Version 04^{/9/} and it is confirmed that the methodology is applicable to the project activity. The data and variables provided in the Monitoring Report^{/2/} are the same as stated in the monitoring plan outlined in the revised registered PDD approved on 13/07/2012^{/1/}.

The assessment team has compared the reported emission reductions with the project emission reductions in the registered PDD (approved on 13/07/2012)^{/1/}. A 35.66% decrease was observed in the actual value. Hence **CAR #1** was raised requesting the PP to clarify, which has been discussed later in this section. The justification provided by the PP for the difference in the emission reductions has been checked and accepted.

The verification of the metering systems is covered in section 3.6 of this report.

CAR #1 (point 1) - The shutdown time during the current monitoring period was not mentioned in section A.1 and B.1 of the MR. In response, the PP has added the shut down details in annex 2 of the revised MR. The same was verified through shutdown detail sheet provided by the O&M contractor and found to be consistent, hence accepted and issued was closed. For a detailed discussion please refer to CAR #1 (point 1) in section 9 of this report.

CAR #1 (point 2) - Section B.1 of the MR was not completed as per the requirements of paragraph 192 of the Project Standard^{/16/}. In response, the PP has provided the details regarding prior approval for changes under section B.1 of the revised MR in line with paragraph 192 of Project Standard^{/16/}, hence accepted. For a detailed discussion please refer to CAR #1 (point 2) in section 9 of this report.

CAR #1 (point 4) - The actual achieved emission reductions during the current monitoring period were around 35.66% lower than the same estimated in the revised approved PDD^{/1/}. In response, the PP has justified that the emission reduction depends upon the net electricity generation which in case of wind power projects depends on the PLF. As verified through the revised CER sheet, the PLF for the current monitoring period is 13.9% which is lower than the PLF of 23.78% assumed while computing emission reduction at the

time of validation. Hence, it can be concluded that lower PLF leading to lower electricity supplied to grid which is ultimately resulting in lesser emission reductions in the current monitoring period than that in the registered approved PDD^{/17/}. This was found acceptable. For a detailed discussion please refer to CAR #1 (point 4) in section 9 of this report.

CAR #3 (point 1) - The value of the estimated CERs was inconsistent between the MR and the ER sheet. In response, the PP has correctly revised the value of the estimated CERs in the MR to make it consistent with the ER spreadsheet^{/3/}. This has been checked and is accepted. For a detailed discussion please refer to CAR #3 (point 1) in section 9 of this report.

CAR #3 (point 2) - A brief description of the installed technology and equipment was missing in section A.1 as required by the guidelines for completing the MR. In response, the PP has added a brief description of the installed technology and equipment in section A.1 of the MR, which is in line with the guidelines for completing the MR. Hence accepted and closed out. For a detailed discussion please refer to CAR #3 (point 3) in section 9 of this report.

CAR #3 (point 3) - Section A.4 of the MR was not complete as per the guidelines for completing the MR form. In response the PP has now mentioned the tools used and has added the reference (weblink) of the methodology and tools. Thus section A.4 of the MR has now been completed as per the guidelines for completing the MR form. Hence accepted and closed out. For a detailed discussion please refer to CAR #3 (point 3) in section 9 of this report.

CAR #3 (point 4) - The MR completion guidelines requires to provide the description of the installed technology(ies), technical process and equipment, and to include diagrams, where appropriate under section B.1. The same was not followed. In response, the PP has now provided a description of the installed technology, technical process and equipment, and has included a diagram in section B.1 of the MR. This is now as per the guidelines for completing the MR form. Hence accepted and closed out. For a detailed discussion please refer CAR #3 (point 4) in section 9 of this report.

The following issues were also raised and discussed under CAR #3:

1. The weblink of the methodology mentioned in section A.4 of the MR was not working. In response, the PP has corrected the same. This has been checked and is accepted.
2. The MR contains both Annex 1 and Appendix 2. The PP was requested to clarify if this is correct. In response, the PP has revised the heading of Appendix 2 to Annex 2. This is considered to be appropriate and hence accepted.
3. The UNFCCC webpage for this project mentions that the Netherlands is directly involved. The same is mentioned in the Host country approval present on the project webpage. Section A.3 of the MR reflects that the Netherlands is indirectly involved. The PP was reflected to clarify this inconsistency. In response, the PP has revised the table in Section A.3 of the MR. Against the Party "Netherlands" the PP has mentioned "Yes" in the last column which indicates that the Party Netherlands wishes to be considered as a Project Participant. This is consistent with the Host Country Approval which states that *"the State of Netherlands, as a party directly involved in the below stated CDM Project Activity"*. Hence the revision made by the PP is appropriate and accepted.
4. The PP had not correctly mentioned the date of the revised PDD, under section B.1 of the MR. Thus an issue was raised, The issue was closed as the PP corrected the same in the revised MR with consistent date with UNFCCC webpage.

Thus CAR #3 was closed out. For a detailed discussion please refer CAR #3 (point 4) in section 9 of this report.

Based on the requirements of paragraph 226 to 228 of the VVS version 03.0^{/15/} the assessment team confirms that the project has been implemented and is being operated as described in the revised PDD^{/1/}.

3.2 Post registration changes

There are no post registration changes to the project activity during the current monitoring period. Notification on request for approval of changes was submitted during the previous (second) verification^{/13/} and the same was approved on dated 13/07/2012 by the UNFCCC as reflected on the project webpage^{/10/}.

3.2.1 Temporary deviations from registered monitoring plan or applied methodology

There are no temporary deviations from registered approved monitoring plan or applied methodology^{/9/}. It was verified and confirmed from the registered PDD (approved on 13/07/2012)^{/1/}, the applied methodology and the on-site verification.

3.2.2 Corrections

There are no corrections during the current monitoring period.

3.2.3 Permanent changes from registered monitoring plan or applied methodology

There are no permanent changes from the approved monitoring plan or applied methodology^{/9/} during the current monitoring period. This was verified and confirmed through monitoring plan outlined in the registered PDD approved on 13/07/2012^{/1/}, applied methodology^{/9/} and on-site verification.

However, a notification on request for approval of changes was submitted during the previous (second) verification^{/13/} and the same approved on 13/07/2012 by the UNFCCC as reflected on the project webpage^{/10/}.

3.2.4 Changes to project design of registered project activity

There are no changes to the project design of the registered project activity during the current monitoring period. It was verified and confirmed from the registered revised PDD (approved on 13/07/2012)^{/1/} and the on-site verification.

3.2.5 Changes to start date of crediting period

There is no change to the start date of the crediting period. It was verified and confirmed from the UNFCCC project webpage^{/10/}.

3.3 Remaining Issues, CAR's, FAR's from Previous Validation or Verification

There are no pending issues from the validation or the previous verification^{/13/}. This was verified and confirmed from the project documents on the UNFCCC project webpage^{/10/}.

3.4 Completeness and accuracy of Monitoring

3.4.1 Verification of monitoring of parameters

The project has been registered with the approved "Consolidated methodology for grid-connected electricity generation from renewable resources" ACM0002 version 04^{/9/}, dated 28/11/2005. The assessment team verified the approved revised monitoring plan outlined in the registered PDD (approved on 13/07/2012)^{/1/} against ACM0002 version 04 and confirms that the monitoring plan is in accordance with the approved methodology applied by the project activity.

The monitoring parameter relevant to this project activity listed in the applied methodology^{/9/} is:

- i. EGy – Electricity Supplied to the grid by the project

The monitoring parameters defined by in the approved monitoring plan^{/1/} are:

- i. EGy – Net electricity generation supplied to the grid by the project activity
- ii. $EG_{JMR, Export}$ – Electricity exported by the project activity and non-project activity WTGs, as recorded by the main meters at the Amarsagar (state utility sub-station)
- iii. $EG_{JMR, Import}$ – Electricity imported by the project activity and non-project activity WTGs as recorded by the main meter at the Amarsagar (state utility sub-station)
- iv. $EG_{Controller, i}$ – Gross electricity export (gross electricity generation by WTG) by a WTG of the project activity or non project activity, as measured at the controller (LCS meter) at project site. Where i, is the total number of WTGs connected to main meter including both project activity & non project activity.
- v. $\sum EG_{Controller, i}$ – Summation of Gross electricity export (Gross electricity generation by WTG) by all WTG of the project activity and non project, as measured at the controller (LCS meter) at project site

- vi. $\sum EG_{\text{Controller, N,M}}$ – Summation of Gross electricity export (Gross electricity generation by WTG) by all the WTGs (N number of WTGs) of sub-project (M) included in the project activity, as measured at the LCS where M is any sub project included in the project activity and N is the number of WTGs in a sub-project
- vii. $EG_{\text{Export,y,M}}$ – Electricity export to the grid by all WTGs of a sub-Project included in the project activity, where M is any sub project included the project activity.
- viii. $\sum EG_{\text{Export,y,M}}$ – Summation of Electricity export to the grid by all the sub-Projects included in the project activity.

The analysis of the compliance of the actual monitoring, of the above mentioned parameters, with the requirements of the applied methodology and the registered monitoring plan is discussed in the tables below.

EGy – Net electricity generation supplied to the grid by the project activity

Monitoring Report, onsite checks Registered Monitoring Plan & Approved Methodology	Requirement in the applicable methodology and relevant EB Documents	Requirement in the registered monitoring plan	Implementation of the project	Conclusion on the compliance of the implementation with the monitoring plan & applicable methodology.
Data/Parameter	EG _y	EG _y	EG _y	In compliance
Description	Electricity supplied to the grid by the project	Net electricity generation supplied to the grid by the project activity	Net electricity generation supplied to the grid by the project activity	In compliance
Measured/Calculated /Default	Measured	Calculated	Calculated	In this project activity, this parameter has been calculated from the directly measured values of the parameters described in the tables below. This monitoring approach is in line with the actual approach followed by the state utility on the site.
Source of data	On site measurement	Not applicable	Not applicable	
Monitoring equipment	Energy meters	Not applicable	Not applicable	
Measuring/Reading/ Recording frequency	Hourly measurement and monthly recording	Calculated and recorded on monthly basis	Calculated and recorded on monthly basis	Hence in compliance. During the site visit, the assessment team has confirmed that the monitoring approach followed during the current monitoring period is consistent with that in the registered monitoring plan. The apportioning (as described in annex 4 of the PDD ⁽¹⁾) is carried out by the state utility and the PP has no role in the calculation.
Calculation method (if applicable)	Not Applicable	Calculated based on monthly JMR ⁽⁴⁾ reading and the LCS reading. The detailed procedure is described in annex 4 of the registered PDD (approved on 13/07/2012) ⁽¹⁾	Calculated based on monthly JMR ⁽⁴⁾ reading and the LCS reading. The detailed procedure is described in annex 4 of the registered PDD (approved on 13/07/2012) ⁽¹⁾	
QA/QC procedures	Electricity supplied by the project activity to the grid. Double check by receipt of sales.	Value of EG _y can be cross checked with the invoices ⁽⁵⁾ raised to the state utility.	Value of EG _y can be cross checked with the invoices ⁽⁵⁾ raised to the state utility.	In compliance The assessment team has cross-checked the monthly values of this parameter against the invoices ⁽⁵⁾ raised and it is found to be consistent.

In summary, the actual of monitoring for EGy is in compliance with the applied methodology and registered monitoring plan.

EG_{JMR, Export} –Electricity exported by project activity and non-project activity WTGs, as recorded by the main meters at the Amarsagar (state utility sub-station)

Monitoring Report, onsite checks Registered Monitoring Plan & Approved Methodology	Requirement in the applicable methodology and relevant EB Documents	Requirement in the registered monitoring plan	Implementation of the project	Conclusion on the compliance of the implementation with the monitoring plan & applicable methodology.
Data/Parameter	<p>This parameter is not mentioned in the applied methodology.</p> <p>This parameter is being monitored as per the revised monitoring plan in the revised PDD^{1/} approved on 13/07/2012</p>	EG _{JMR, Export}	EG _{JMR, Export}	In compliance
Description		Electricity exported by project activity and non-project activity WTGs, as recorded by the main meters at the Amarsagar (state utility sub-station).	Electricity exported by project activity and non-project activity WTGs, as recorded by the main meters at the Amarsagar (state utility sub-station).	In compliance
Measured/Calculated /Default		Measured	Measured	In compliance
Source of data		Monthly JMR ^{4/}	Monthly JMR ^{4/}	<p>The assessment team has verified the monitoring approach for this parameter during the site visit. The on-site monitoring is consistent with the approach mentioned in the registered monitoring plan and the monitoring report. The verification of the meters has been covered in section 3.5 below.</p>
Monitoring equipment		Energy Meters	Energy Meters	
Measuring/Reading/ Recording frequency		Continuous monitoring and monthly basis recording	Continuous monitoring and monthly basis recording	
Calculation method (if applicable)		Not applicable	Not applicable	This is a measured parameter and hence not applicable
QA/QC procedures		Corresponding to each main meter at the Amarsagar sub-station, a backup meter is installed at the Temdarai sub-station. The main and the backup metering systems are under custody of RRVPN and are calibrated/tested once in a year by State Utility.	Corresponding to each main meter at the Amarsagar sub-station, a backup meter is installed at the Temdarai sub-station. The main and the backup metering systems are under custody of RRVPN and are calibrated/tested once in a year by State Utility.	<p>In compliance</p> <p>The presence of the main and check meters was verified during the site visit. The verification of the meters has been covered in section 3.5 below.</p>

In summary, the actual monitoring for EG_{JMR, Export} is in compliance with the applied methodology and registered monitoring plan.

EG_{JMR, Import} – Electricity imported by project activity and non-project activity WTGs as recorded by the main meter at the Amarsagar (state utility sub-station)

Monitoring Report, onsite checks Registered Monitoring Plan & Approved Methodology	Requirement in the applicable methodology and relevant EB Documents	Requirement in the registered monitoring plan	Implementation of the project	Conclusion on the compliance of the implementation with the monitoring plan & applicable methodology.
Data/Parameter	<p>This parameter is not mentioned in the applied methodology.</p> <p>This parameter is being monitored as per the revised monitoring plan in the revised PDD^{4/} approved on 13/07/2012</p>	EG_{JMR, Import}	EG_{JMR, Import}	In compliance
Description		Electricity imported by project activity and non-project activity WTGs, as recorded by the main meters at the Amarsagar (state utility sub-station).	Electricity imported by project activity and non-project activity WTGs, as recorded by the main meters at the Amarsagar (state utility sub-station).	In compliance
Measured/Calculated /Default		Measured	Measured	<p>In compliance</p> <p>The assessment team has verified the monitoring approach for this parameter during the site visit. The on-site monitoring is consistent with the approach mentioned in the registered monitoring plan and the monitoring report. The verification of the meters has been covered in section 3.5 below.</p>
Source of data		Monthly JMR ^{4/}	Monthly JMR ^{4/}	
Monitoring equipment		Energy Meters	Energy Meters	
Measuring/Reading/ Recording frequency		Continuous monitoring and monthly basis recording	Continuous monitoring and monthly basis recording	<p>This is a measured parameter and hence not applicable</p>
Calculation method (if applicable)		Not applicable	Not applicable	
QA/QC procedures		Corresponding to each main meter at the Amarsagar sub-station, a backup meter is installed at the Temdarai sub-station. The main and the backup metering systems are under custody of RRVN and are calibrated/tested once in a year by State Utility.	Corresponding to each main meter at the Amarsagar sub-station, a backup meter is installed at the Temdarai sub-station. The main and the backup metering systems are under custody of RRVN and are calibrated/tested once in a year by State Utility.	<p>In compliance</p> <p>The presence of the main and check meters was verified during the site visit. The verification of the meters has been covered in section 3.5 below.</p>

In summary, the actual monitoring for EG_{JMR, Import} is in compliance with the applied methodology and registered monitoring plan.

$EG_{\text{Controller},i}$ – Gross electricity export (gross electricity generation by WTG) by a WTG of project activity or non project activity, as measured at the controller (LCS meter) at project site. Where i , is the total number of WTGs connected to main meter including both project activity & non project activity

Monitoring Report, onsite checks	Requirement in the applicable methodology and relevant EB Documents	Requirement in the registered monitoring plan	Implementation of the project	Conclusion on the compliance of the implementation with the monitoring plan & applicable methodology.
Registered Monitoring Plan & Approved Methodology				
Data/Parameter		$EG_{\text{Controller},i}$	$EG_{\text{Controller},i}$	In compliance
Description		Gross electricity export (gross electricity generation by WTG) by a WTG of project activity or non project activity, as measured at the controller (LCS meter) at project site. Where i , is the total number of WTGs connected to main meter including both project activity & non project activity.	Gross electricity export (gross electricity generation by WTG) by a WTG of project activity or non project activity, as measured at the controller (LCS meter) at project site. Where i , is the total number of WTGs connected to main meter including both project activity & non project activity.	In compliance
Measured/Calculated /Default	This parameter is not mentioned in the applied methodology. This parameter is being monitored as per the revised monitoring plan in the revised PDD ^{1/} approved on 13/07/2012	Measured	Measured	In compliance The assessment team has verified the monitoring approach for this parameter during the site visit. The on-site monitoring is consistent with the approach mentioned in the registered monitoring plan and the monitoring report.
Source of data		Monthly generation report ^{6/} (LCS) sourced from SCADA provided by Enercon	Monthly generation report ^{6/} (LCS) sourced from SCADA provided by Enercon	
Monitoring equipment		LCS or controller meters which is in-built electronic panel installed inside the WTG tower	LCS or controller meters which is in-built electronic panel installed inside the WTG tower	
Measuring/Reading/ Recording frequency		Continuous monitoring, daily recording Also summarised on a monthly basis in monthly generation report	Continuous monitoring, daily recording Also summarised on a monthly basis in monthly generation report	
Calculation method (if applicable)		Not applicable	Not applicable	This is a measured parameter and hence not applicable
QA/QC procedures		LCS meter is microprocessor based multi function relay (MFR) which is highly accurate and it monitors the electricity generated	LCS meter is microprocessor based multi function relay (MFR) which is highly accurate and it monitors the electricity generated	In compliance The presence of the LCS meter was verified during the site visit. The verification of the meters has been covered in section 3.5 below.

		by each WTG. The relay runs software to sample inputs and numerically processes the information.	by each WTG. The relay runs software to sample inputs and numerically processes the information.	
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In summary, the actual monitoring for $EG_{\text{Controller},i}$ is in compliance with the applied methodology and registered monitoring plan.

$\Sigma EG_{\text{Controller},i}$ – Summation of Gross electricity export (Gross electricity generation by WTG) by all WTG of project activity and non project, as measured at the controller (LCS meter) at project site

Monitoring Report, onsite checks Registered Monitoring Plan & Approved Methodology	Requirement in the applicable methodology and relevant EB Documents	Requirement in the registered monitoring plan	Implementation of the project	Conclusion on the compliance of the implementation with the monitoring plan & applicable methodology.
Data/Parameter		$\Sigma EG_{\text{Controller},i}$	$\Sigma EG_{\text{Controller},i}$	In compliance
Description		Summation of Gross electricity export (Gross electricity generation by WTG) by all WTG of project activity and non project, as measured at the controller (LCS meter) at project site.	Summation of Gross electricity export (Gross electricity generation by WTG) by all WTG of project activity and non project, as measured at the controller (LCS meter) at project site.	In compliance
Measured/Calculated /Default		Calculated	Calculated	
Source of data	This parameter is not mentioned in the applied methodology.	Monthly generation report ^{6/} (LCS) sourced from SCADA provided by Enercon.	Monthly generation report ^{6/} (LCS) sourced from SCADA provided by Enercon.	In compliance
Monitoring equipment	This parameter is being monitored as per the revised monitoring plan in the revised PDD ^{1/} approved on 13/07/2012	Not applicable	Not applicable	The assessment team has verified the monitoring approach for this parameter during the site visit. The on-site monitoring is consistent with the approach mentioned in the registered monitoring plan and the monitoring report. This is a calculated parameter and hence the monitoring equipment is not applicable.
Measuring/Reading/ Recording frequency		Summarised on monthly basis in monthly generation report.	Summarised on monthly basis in monthly generation report.	
Calculation method (if applicable)		This parameter is calculated as summation of Gross electricity export by all WTG of the project activity and non project activity as measured through the controller meter (LCS meter)	This parameter is calculated as summation of Gross electricity export by all WTG of the project activity and non project activity as measured through the controller meter (LCS meter)	
QA/QC procedures		LCS meter is microprocessor based multi function relay (MFR) which is highly accurate and it monitors the electricity generated	LCS meter is microprocessor based multi function relay (MFR) which is highly accurate and it monitors the electricity generated	In compliance

		by each WTG. The relay runs software to sample inputs and numerically processes the information.	by each WTG. The relay runs software to sample inputs and numerically processes the information.	
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In summary, the actual monitoring for $\Sigma EG_{\text{Controller},i}$ is in compliance with the applied methodology and registered monitoring plan.

$\Sigma EG_{\text{Controller}, N,M}$ – Summation of Gross electricity export (Gross electricity generation by WTG) by all the WTGs (N number of WTGs) of sub-project (M) included in the project activity, as measured at the LCS where M is any sub project included in the project activity and N is the number of WTGs in a sub-project

Monitoring Report, onsite checks Registered Monitoring Plan & Approved Methodology	Requirement in the applicable methodology and relevant EB Documents	Requirement in the registered monitoring plan	Implementation of the project	Conclusion on the compliance of the implementation with the monitoring plan & applicable methodology.
Data/Parameter		$\Sigma EG_{\text{Controller}, N,M}$	$\Sigma EG_{\text{Controller}, N,M}$	In compliance
Description	This parameter is not mentioned in the applied methodology. This parameter is being monitored as per the revised monitoring plan in the revised PDD ^{1/} approved on 13/07/2012	Summation of Gross electricity export (Gross electricity generation by WTG) by all the WTGs (N number of WTGs) of sub-project (M) included in the project activity, as measured at the LCS where M is any sub project included in the project activity and N is the number of WTGs in a sub-project.	Summation of Gross electricity export (Gross electricity generation by WTG) by all the WTGs (N number of WTGs) of sub-project (M) included in the project activity, as measured at the LCS where M is any sub project included in the project activity and N is the number of WTGs in a sub-project.	In compliance
Measured/Calculated /Default		Calculated	Calculated	In compliance The assessment team has verified the monitoring approach for this parameter during the site visit. The on-site monitoring is consistent with the approach mentioned in the registered monitoring plan and the monitoring report. This is a calculated parameter and hence the monitoring equipment is not applicable.
Source of data		Monthly generation report ^{6/} (LCS) sourced from SCADA provided by Enercon.	Monthly generation report ^{6/} (LCS) sourced from SCADA provided by Enercon.	
Monitoring equipment		Not applicable	Not applicable	
Measuring/Reading/ Recording frequency		Summarised on a monthly basis in monthly generation report.	Summarised on a monthly basis in monthly generation report.	
Calculation method (if applicable)		This parameter is calculated as summation of Gross electricity export (Gross electricity generation by WTG) by all the WTGs (N number of WTGs) of sub-project (M) included in the	This parameter is calculated as summation of Gross electricity export (Gross electricity generation by WTG) by all the WTGs (N number of WTGs) of sub-project (M) included in the	

		project activity as measured through the controller meter (LCS meter)	project activity as measured through the controller meter (LCS meter)	
QA/QC procedures		LCS meter is microprocessor based multi function relay (MFR) which is highly accurate and it monitors the electricity generated by each WTG. The relay runs software to sample inputs and numerically processes the information.	LCS meter is microprocessor based multi function relay (MFR) which is highly accurate and it monitors the electricity generated by each WTG. The relay runs software to sample inputs and numerically processes the information.	In compliance

In summary, the actual monitoring for $\Sigma EG_{\text{Controller, N,M}}$ is in compliance with the applied methodology and registered monitoring plan.

$EG_{\text{Export,y,M}}$ – Electricity export to the grid by all WTGs of a sub-Project included in the project activity, where M is any sub project included the project activity.

Monitoring Report, onsite checks Registered Monitoring Plan & Approved Methodology	Requirement in the applicable methodology and relevant EB Documents	Requirement in the registered monitoring plan	Implementation of the project	Conclusion on the compliance of the implementation with the monitoring plan & applicable methodology.
Data/Parameter		$EG_{\text{Export,y,M}}$	$EG_{\text{Export,y,M}}$	In compliance
Description		Electricity export to the grid by all WTGs of a sub-Project included in the project activity, where M is any sub project included the project activity.	Electricity export to the grid by all WTGs of a sub-Project included in the project activity, where M is any sub project included the project activity.	In compliance
Measured/Calculated /Default	This parameter is not mentioned in the applied methodology. This parameter is being monitored as per the revised monitoring plan in the revised PDD ^{/1/} approved on 13/07/2012	Calculated	Calculated	In compliance
Source of data		Generation break up sheet ^{/7/} provided by Enercon.	Generation break up sheet ^{/7/} provided by Enercon	
Monitoring equipment		Not applicable	Not applicable	
Measuring/Reading/ Recording frequency		Recorded on monthly basis in Generation break up sheet	Recorded on monthly basis in Generation break up sheet	The assessment team has verified the monitoring approach for this parameter during the site visit. The on-site monitoring is consistent with the approach mentioned in the registered monitoring plan and the monitoring report. This is a calculated parameter and hence the monitoring equipment is not applicable.
Calculation method (if applicable)		This parameter is calculated using the measured values of $EG_{\text{JMR,Export}}$ and calculated values of $\Sigma EG_{\text{Controller,N,M}}$ and $\Sigma EG_{\text{Controller,i}}$ as described in annex 4 of the PDD ^{/1/}	This parameter is calculated using the measured values of $EG_{\text{JMR,Export}}$ and calculated values of $\Sigma EG_{\text{Controller,N,M}}$ and $\Sigma EG_{\text{Controller,i}}$ as described in annex 4 of the PDD ^{/1/}	

QA/QC procedures		Monthly recorded values of this parameter could be cross checked with the invoices ^{/5/} raised by PP to state utility.	Monthly recorded values of this parameter could be cross checked with the invoices ^{/5/} raised by PP to state utility.	In compliance The assessment team has cross-checked the monthly values of this parameter against the invoices ^{/5/} raised and it is found to be consistent.
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In summary, the actual monitoring for $EG_{Export,y,M}$ is in compliance with the applied methodology and registered monitoring plan.

$\Sigma EG_{Export,y,M}$ – Summation of Electricity export to the grid by all the sub-Projects included in the project activity.

Monitoring Report, onsite checks Registered Monitoring Plan & Approved Methodology	Requirement in the applicable methodology and relevant EB Documents	Requirement in the registered monitoring plan	Implementation of the project	Conclusion on the compliance of the implementation with the monitoring plan & applicable methodology.
Data/Parameter		$\Sigma EG_{Export,y,M}$	$\Sigma EG_{Export,y,M}$	In compliance
Description		Summation of Electricity export to the grid by all the sub-Projects included in the project activity.	Summation of Electricity export to the grid by all the sub-Projects included in the project activity.	In compliance
Measured/Calculated /Default		Calculated	Calculated	
Source of data	This parameter is not mentioned in the applied methodology.	Generation break up sheet ^{/7/} provided by Enercon.	Generation break up sheet ^{/7/} provided by Enercon	In compliance
Monitoring equipment	This parameter is being monitored as per the revised monitoring plan in the revised PDD ^{/1/} approved on 13/07/2012	Not applicable	Not applicable	The assessment team has verified the monitoring approach for this parameter during the site visit. The on-site monitoring is consistent with the approach mentioned in the registered monitoring plan and the monitoring report. This is a calculated parameter and hence the monitoring equipment is not applicable.
Measuring/Reading/ Recording frequency		Recorded on monthly basis in Generation break up sheet	Recorded on monthly basis in Generation break up sheet	
Calculation method (if applicable)		This parameter is calculated as summation of $EG_{Export,y,M}$ for all the sub projects (M).	This parameter is calculated as summation of $EG_{Export,y,M}$ for all the sub projects (M).	
QA/QC procedures		Monthly recorded values of this parameter could be cross checked with the invoices ^{/5/} raised by PP to state utility.	Monthly recorded values of this parameter could be cross checked with the invoices ^{/5/} raised by PP to state utility.	In compliance The assessment team has cross-checked the monthly values of this parameter against the invoices ^{/5/} raised and it is found to be consistent.

In summary, the actual monitoring for $\Sigma EG_{Export,y,M}$ is in compliance with the applied methodology and registered monitoring plan.

CAR #1 (point 3) - The line diagram of the monitoring system showing the relevant monitoring points and the information flow was not provided in section C of the MR as required by the guidelines for completing the MR (EB 70 Annex 11). In response, the PP has included a line diagram in section C of the revised MR along with

the justification regarding the information flow, hence accepted. For a detailed discussion please refer to CAR #1 (point 3) in section 9 of this report.

CAR #2 (point 2) - It was not clear why monitoring equipments have been described for all the calculated parameters in section D.2 of the MR. In response, the PP revised the information about calculated parameters in the revised MR^{2/}, which was found to be in line with actual practice and registered monitoring plan, hence accepted. For a detailed discussion please refer to CAR #2 (point 2) in section 9 of this report.

CAR #2 (point 3) - For the calculated parameters $\sum EG_{\text{Controller, i}}$ and $\sum EG_{\text{Controller, N, M}}$ in section D.2 of the MR, "Calculation method" was not mentioned. In response, the PP has now mentioned the calculation method in section D.2 of revised MR. The same was found to be in line with actual practice and monitoring plan, hence accepted. For a detailed discussion please refer to CAR #2 (point 3) in section 9 of this report.

In accordance with paragraphs 233-236 of the VVS version 03.0^{15/}, the assessment team confirms that the actual monitoring activities observed on site is in compliance with the revised PDD^{1/}. The applicable parameters stated in the PDD^{1/} and the applied methodology has been sufficiently monitored. The responsibilities and authorities for monitoring and reporting are in accordance with what is stated in the PDD^{1/}. The information flow (data generation, aggregation, recording, calculation and reporting) for the parameter to be monitored, including its values in the final version of the MR^{2/}, have been correctly reported and confirmed by the assessment team.

3.4.2 Verification of implementation of sampling plan

Not applicable

3.5 Accuracy of Equipment

The line diagram of the metering system of the project activity is indicated in Section C of the MR^{2/}. The metering point comprises of two main meters that are installed at 132 kV metering point at the Amarsagar substation. The back up or check meters are installed at the Temdarai substation. To these metering points, WTGs belonging to the project activity and non-project activities are connected. The meter details, verified by the assessment team, as reported in the MR^{2/} are summarised in the below table:

Monitoring equipment	S/N	Level	Calibration frequency requirement	Calibration date ^{8/}	Validity	Are there delays in calibration?	Calibration Entity	Accreditation Certificate for the calibration entity Issuing authority Relevant
Energy Meter (Amarsagar Substation)	Main Meter (Line 1) - TNU00946	0.2s	Annual	26/03/2011 19/03/2012 and 26/12/2012	25/12/2013	No delay in calibration identified during current monitoring period	State Electricity Authority	Calibrating agency is authorised by Government of India.
	Main Meter (Line 2) - TNU00945			26/03/2011 19/03/2012 and 26/12/2012	25/12/2013			
Energy Meter (Temdarai Substation)	Check Meter (Line 1) - RJB00052			28/03/2011 23/03/2012 and 28/12/2012	27/12/2013			
	Check Meter (Line 2) - ABB00691			28/03/2011 23/03/2012 and 28/12/2012	27/12/2013			

The Gazette of India (Registered NO. DL (N) – 04/0007/2003 – 15) dated 26/07/2010 which is the gazette for metering regulations in India clearly mentions that for voltage of 650 V up to 33 kV, 0.5s and better is recommended. Hence, the accuracy classes of 0.2s of energy meters installed at the sites are of a better accuracy class and it is accepted.

CEA Notification No. 502/70/CEA/DP&D dated 17/03/2006 which is considered as national standard mentions that "All interface meters shall be tested at least once in five years." Hence the annual calibration frequency for this project activity is considered to be appropriate.

The metering also involves LCS meters present at the individual WTGs. LCS meter (controller) is in-built electronic panel installed inside the WTG tower. LCS meters do not require calibration as described in Annex 4 of revised PDD^{/1/}.

The metering systems, which are summarised in the table above, have been verified through the following means:

- i. Physical inspection of the meters during the site visit
- ii. Interviewing the staff at the sub-station
- iii. Interviewing the staff of the O&M contractor
- iv. Interviewing the officials the state utility
- v. JMR^{/4/} for the current monitoring period
- vi. Meter test certificates^{/8/} for the entire monitoring period

Based on the above mentioned means of verification, the assessment team confirms that:

- The meter details are correctly mentioned in the MR
- The meter details are consistent throughout all verified documents
- The entire metering system is in the custody of the state utility. The PP has no control on the same
- The responsibilities and authorities for monitoring and reporting are in accordance with what is stated in the revised PDD.
- The accuracy of the equipment used for monitoring is in accordance with the relevant guidance provided by the CDM Executive Board
- The monitoring equipment are controlled and calibrated in accordance with the revised PDD

3.6 Summary of compliance with the calibration frequency requirements for measuring instruments.

The calibration of the following measuring equipment has direct impact on the claimed emission reductions:

Meters located at Amarsagar Substation:

A: Main Meter – Line 1(Sr. No: TNU00946)

B: Main Meter – Line 2(Sr. No: TNU00945)

In case of the any emergency situation only, when the details from the main maters are not available, the backup meters located at Temdarai Substation will be used by the PP for data recording:

C: Backup Meter – Line 1(Sr. No: RJB00052)

D: Backup Meter – Line 2 (Sr. No: ABB00691)

As per the registered PDD (approved on 13/07/2012)^{/1/} and power purchase agreement signed with RRVPNL calibration of energy meters will be done by state electricity authority once in a year.

The metering systems, which are summarised in section 3.5 above, have been verified through the following means:

- i. Physical inspection of the meters during the site visit
- ii. Interviewing the staff at the sub-station
- iii. Interviewing the officials of the state utility
- iv. Meter calibration certificates^{/8/} relevant to the current monitoring period

Based on the above mentioned means of verification, the assessment team confirms that:

- The meter details are correctly mentioned in the MR^{/2/}

- The meter details are consistent throughout all verified documents
- The entire metering system is in the custody of the state utility, which is responsible for calibration of meters.
- The responsibilities and authorities for monitoring and reporting are in accordance with what is stated in the in the monitoring plan contained in the registered approved PDD^{/1/}.
- The accuracy of the equipment used for monitoring is in accordance with the relevant guidance provided by the CDM Executive Board and as stated in the in the monitoring plan contained in the registered approved PDD^{/1/}.
- The monitoring equipment are controlled and calibrated in accordance with the frequency as stated in the in the monitoring plan contained in the registered approved PDD^{/1/}.
- There no delay in calibration observed during current monitoring period.

3.7 Accuracy of Emission Reduction Calculations

The calculation of emission reductions in the latest excel spreadsheet^{/3/} submitted by the PP is found to be correct. The findings and the satisfactory responses regarding the ER calculations has been discussed later in this section. The details of the reported and the verified values for all parameters are listed in section 4, 'Calculation of Emission Reductions'.

The parameter EG_y is used for the emission reduction calculations. All the WEGs belongs to project activity are connected to Amarsagar Substation, it is noted that the WEGs of other promoters (not part of the project activity) are also connected to the same substation.

Since the project activity WEGs are connected through common metering system along with non project activity WEGs of other customers at the main meter, hence apportioning of net electricity export and import as recorded at common metering point is being done to calculate the electricity export and import by individual customers WEGs. Apportioning is being done on the basis of gross electricity exported by all the WEGs as recorded through their individual in-built LCS meters.

Joint meter readings at common metering point jointly taken and endorsed by the state utility and the PPs representative(Enercon) which is reflected in the monthly JMRs. Based on the monthly joint meter readings, Enercon prepares a break up generation sheets that provides the value of electricity export, import and net electricity supplied to the grid by individual customers.

The assessment team has verified the CER calculation sheet, the MR and it is confirmed that the calculation of EG_y is in line with the procedure outlined under annex 04 of the revised registered PDD (approved on 13/07/2012)^{/1/}.

The baseline emission factor has been calculated as per the guidance provided in ACM0002 version 04^{/9/}. The Grid Emission Factor 0.90852 tCO₂/MWh has been referred from registered PDD (approved on 13/07/2012)^{/1/}. This is an ex-ante parameter and remains constant throughout the crediting period.

As per the CER excel spreadsheet^{/3/} submitted by the PP, the net emission reductions for the current monitoring period was verified as 79,866 tCO₂e for current monitoring period. The difference between the estimated and verified ERs has been discussed under 3.1 of this report.

According to the assessment in section 3.4, 3.6, 3.10; and as per the requirements of paragraphs 244 to 246 of the VVS version 03.0^{/15/} it has been confirmed by the assessment team that in the final version of the MR^{/2/} and the ER calculation spreadsheet^{/3/}:

- (a) All the data requested for the ER calculation in this monitoring period were monitored and recorded in a complete manner.
- (b) All the reported data have been checked against the original data source where they were quoted from.
- (c) The methods and formulae for calculation of baseline emissions, project emissions and leakage specified in the revised PDD have been followed.
- (d) The emission factors have been applied correctly in accordance with the revised PDD.

3.8 Quality of Evidence to Determine Emission Reductions

Critical parameters used for the determination of the Emission Reductions are discussed in section 3.4 above. All the data recorded is in compliance with the monitoring report.

3.9 Management and operational System and Quality Assurance

The company involved in the project monitoring has ISO 9001:2008, and ISO14001:2004^{/17/} quality assurance system implemented, therefore we can affirm that the management system of the CDM project is in place, with the responsibilities properly identified and in place. The Head (CDM) and site in-charge of the PP were interviewed during the site visit to confirm the same.

In order to verify the data quality, the company involved in the project works in accordance with a quality assurance procedure, which establishes the implementation of the operational and management structure.

3.10 Data from External Sources

The value of the baseline emission factor used in emission reduction calculations for current monitoring period is 0.90852 tCO₂/MWh as reported in the Monitoring Report^{/2/}. The baseline emission factor was determined ex-ante and fixed for the entire crediting period as mentioned under annex 4 of the revised registered PDD (approved on 13/07/2012)^{/1/}.

CAR #2 (point 1) - The appropriateness for source of data for all parameters (grid emission factor parameters) in section D.1 of the MR mentioned as "Revised PDD (version 6.0, dated 26/04/2012 & approved by UNFCCC on 13/07/2012)" was not clear. In response, the PP has justified that at the time of registration of project activity, CO₂ Baseline Database was not published by CEA and hence not available to the PP. Hence the power sector data sourced from CEA web-site was used to calculate the OM, BM & CM as per the applicable emission factor calculation tool. In view of this information the revised approved PDD could be the appropriate source of data for OM, BM and CM. The same approach has been followed in the previous monitoring period. The same was found acceptable and hence CAR #2 (point 1) was closed out. For a detailed discussion please refer CAR #2 (point 1) in section 9 of this report.

4. Calculation of Emission Reductions

Parameter	Reported Value (MWh) MR Version 1	Verified Value (MWh) MR Version 5
EG_y	87,908.153	87,908.153
EG_{JMR, Export}	221,551.750	221,551.750
EG_{JMR, Import}	612.750	612.750
EG_{Controller, I}	Monthly values provided in CER calculation sheet	Monthly values provided in CER calculation sheet
ΣEG_{Controller, I}	231,743.003	231,743.003
ΣEG_{Controller, N, M}	92,591.639	92,591.639
EG_{Export, y, M}	Monthly values provided in CER calculation sheet	Monthly values provided in CER calculation sheet
ΣEG_{Export, y, M}	88,520.903	88,520.903
EF_{CM, y} (tCO₂e/MWh)	0.90852	0.90852

The baseline emissions (BE_y) are calculated as follows:

$$\begin{aligned}
 BE_y &= EG_y \text{ (MWh)} \times \text{Grid emission Factor (t CO}_2\text{e/MWh)} \\
 &= 87,908.153 \times 0.90852 \\
 &= 79,866 \text{ tCO}_2\text{e}
 \end{aligned}$$

As per methodology and as described in section E of the registered PDD (approved on 13/07/2012), Project emissions (PE_y) and leakage (Ly) and are zero.

Thus emission reductions are calculated as follow:

$$\begin{aligned}
 ER_y &= BE_y - PE_y - Ly \\
 &= 79,866 - 0 - 0 \\
 &= 79,866 \text{ tCO}_2\text{e}
 \end{aligned}$$

Emission Reduction:

Period	Reported Value (web hosted MR) tCO ₂ e	Verified Value (final MR) tCO ₂ e	If Different, Summary of Issues That Caused the Difference
01/09/2011 to 31/12/2012	79,866	79,866	Not Applicable
CERs up to 31/12/2012	79,866	79,866	Not Applicable

5. Recommendations for Changes in the Monitoring Plan

Notification on request for approval of changes was submitted during the previous (second) verification and the same was approved on 13/07/2012 by the UNFCCC as reflected on the project webpage^{/10/}.

No recommendation is made for changes in the approved revised monitoring plan^{/1/} during the current monitoring period.

6. Overview of Results

Assessment Against the Provisions of Decision 17/CP.7:

Is the project documentation in accordance with the requirements of the registered PDD and relevant provision of decision 17/CP.7, EB decisions and guidance and the COP/MOP?

Yes. The results of the compliance assessment are recorded in the verification checklist which is used as an internal report only.

Have on-site inspections been performed that may comprise, inter alia, a review of performance records, interviews with project participants and local stakeholders, collection of measurements, observations of established practices and testing of the accuracy of monitoring equipment?

Yes. Mr. Sudeep Kodialbail (Lead Assessor; Local Assessor & Expert) visited the site and undertook interviews, collected data, audited the implementation of procedures, checked calibration certificates and checked data, inter alia.

The results of the site visit are recorded in the verification checklist which is used as an internal report only.

The evidences have been checked and collected. The final monitoring report is attached with this verification report.

Has data from additional sources been used? If yes, please detail the source and significance.

Emission Factor of the Grid used for emission reduction calculation has been determined ex-ante as verified through revised registered PDD (approved on 13/07/2012). The value used is 0.90852 tCO₂/MWh fixed for the entire crediting period.

Please review the monitoring results and verify that the monitoring methodologies for the estimation of reductions in anthropogenic emissions by sources have been applied correctly and their documentation is complete and transparent.

Yes. The monitoring methodology has been correctly applied and the monitoring report and supporting references are complete and transparent.

Have any recommendations for changes to the monitoring methodology for any future crediting period been issued to the project participant?

No

Determine the reductions in anthropogenic emissions by sources of greenhouse gases that would not have occurred in the absence of the CDM project activity, based on the data and information using calculation procedures consistent with those contained in the registered project design document and the monitoring plan.

The data used in anthropogenic emission reduction calculation is consistent with those contained in the approved registered PDD and monitoring plan. The emission reduction was 124,138 tCO₂ for the period 01/09/2011 to 31/12/2012 as per the estimation made in the approved registered PDD. The actual emission reduction has been verified as 79,866 tCO₂ for the same period.

Identify and inform the project participants of any concerns related to the conformity of the actual project activity and its operation with the registered project design document. Project participants shall address the concerns and supply relevant additional information.

"No such non conformity of the actual project activity and its operation with the registered project design document has been observed."

Post monitoring report on UNFCCC website

Yes, the monitoring report is available at ref. 0310 on the UNFCCC website

<http://cdm.unfccc.int/Projects/DB/DNV-CUK1143050217.74/view>

7. Verification and Certification Statement

SGS United Kingdom Ltd has been contracted by M/s Enercon (India) Limited to perform the verification of the emission reductions reported for the CDM project "Bundled Wind power project in Jaisalmer (Rajasthan in India) managed by Enercon (India) Ltd." and UNFCCC Reference Number 0310 in the period 01/09/2011 to 31/12/2012.

The verification is based on the validated and registered project design document and the monitoring report for this project. Verification is performed in accordance with section I of Decision 3/CMP.1, and relevant decisions of the CDM EB and CoP/MoP. The scope of this engagement covers the verification and certification of greenhouse gas emission reductions generated by the above project during the above mentioned period, as reported in the Monitoring Report Version 5 dated 26/04/2013.

The management of the M/s Enercon (India) Limited is responsible for the preparation, calculation and determination of GHG emission reductions from the project. The development and maintenance of records and reporting procedures are in accordance with the monitoring report.

It is our responsibility to express an independent GHG verification opinion on the GHG emissions and on the calculation of GHG emission reductions from the project for the period 01/09/2011 to 31/12/2012 based on the reported emission reductions in the Monitoring Report Version 5 dated 26/04/2013 for the same period.

Based on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these, SGS planned and performed our work to obtain the information and explanations that we considered necessary to provide sufficient evidence for us to give reasonable assurance that this reported amount of GHG emission reductions for the period is fairly stated.

SGS confirms that the project is implemented as described in the validated and registered project design documents. Based on the information we have seen and evaluated, we confirm the following:

Project Title:	Bundled Wind power project in Jaisalmer (Rajasthan in India) managed by Enercon (India) Ltd.
UNFCCC Reference Number:	0310
Registered PDD and Approved Monitoring Plan Used for Verification:	PDD Version 6.0, dated 26/04/2012, approved by the UNFCCC on 13/07/2012
Methodology Used for Verification:	ACM0002 version 04, dated 28/11/2005
Applicable Period:	01/09/2011 to 31/12/2012
Total GHG Emission Reductions Verified:	79,866 tCO₂e

Signed on behalf of the Verification Body by Authorised Signatory



Signature:

Name: Siddharth Yadav

Date: 30/04/2013

8. Document References

1. [Revised approved PDD](#) version 06, dated 26/04/2012 (approved on 13/07/2012)
2. Monitoring report

Version No.	Date	Remarks
1	01/03/2013	This version was uploaded on the UNFCCC website prior to the site visit.
2	26/03/2013	The title page and Sections A.1; B.1; C; D.1; D.2 and E.6 were revised in response to CAR #1 and CAR #2 raised by the assessment team.
3	22/04/2013	The title page and Sections A.1; A.4; B.1 and E.5 were revised in response to CAR #3.
4	25/04/2013	Section A.4 and Appendix 2 was revised in response to CAR #3.
5	26/04/2013	This is the final version of the MR. Section A.3 was revised in response to CAR #3.

3. CER calculation sheet
 - a) Version 01 dated 01/03/2013
 - b) Version 02 dated 26/03/2013
 - c) Version 03 dated 22/04/2013
4. Monthly JMR Reports (September 2011 to December 2012)
5. Monthly invoices raised by Investors to state utility (September 2011 to December 2012)
6. Monthly LCS generation reports provided by Enercon (September 2011 to December 2012)
7. Monthly break up sheets provided by Enercon (September 2011 to December 2012)
8. Calibration certificates for all the energy meters relevant to current monitoring period

Meter No. TNU00946

 - a) Ref No. YMPL/201745/34197 with date of calibration 26/03/2011
 - b) Ref No. YMPL/214135/41756 with date of calibration 19/03/2012

Meter No. TNU00945

 - a) Ref No. YMPL/201745/34199 with date of calibration 26/03/2011
 - b) Ref No. YMPL/214135/41759 with date of calibration 19/03/2012

Meter No. RJB00052

 - a) Ref No. YMPL/201757/34220 with date of calibration 28/03/2011
 - b) Ref No. YMPL/215151/41868 with date of calibration 23/03/2011

Meter No. ABB00691

 - a) Ref No. YMPL/201756/34217 with date of calibration 28/03/2011
 - b) Ref No. YMPL/215151/41884 with date of calibration 23/03/2011
9. [ACM0002](#) Version 04 dated 28/11/2005
10. [UNFCCC web link](#) of the CDM project activity (UN No. 0310)
11. Commissioning certificates for all WEGs of the project activity commissioned from 29/09/2003 to 30/06/2004
12. Power purchase agreements signed with RRVPNL
13. [Verification report for previous monitoring periods](#)

- a) MP1 – Report No. BVQI/INDIA/VER # 1/67.49 Revision 1.0 dated 12/10/2006 issued by Bureau Veritas Quality International
 - b) MP2 – Report No CDM.11.VER.0172MP02 Rev No. 2 dated 12/09/2012 issued by KBS Certification Services Pvt. Ltd.
- 14. [Validation opinion on project design change and RMP](#) Version 02 dated 28/04/2012
 - 15. Clean Development Mechanism Validation and Verification Standard version 03.0
 - 16. Clean Development Mechanism Project Standard version 03.0
 - 17. ISO certificates
 - a) ISO 9001:2008
 - b) ISO14001:2004

9. Findings Overview

	CARs	CLs	FARs
Total Number raised	3	-	-

Date:	23/03/2013	Raised by:	Assessment Team		
Type:	CAR	Number:	#1	Reference:	Verification Checklist
Lead Assessor Comment:			Date: 23/03/2013		
<div>1. The shutdown time during the current monitoring period has not been mentioned in section A.1 and B.1 of the MR. Please clarify.</div> <div>2. Section B.1 of the MR has not been completed as per the requirements of paragraph 192 of the Project Standard. Please clarify.</div> <div>3. The line diagram of the monitoring system showing the relevant monitoring points and the information flow has not been described in section C of the MR as required by the guidelines for completing the MR (EB 70 Annex 11). Please clarify.</div> <div>4. PP is requested to clarify, with objective evidence, the 35.49% difference between the estimated and actual emissions reductions for the current monitoring period in section E.6 of the MR.</div>					
Project Participant Response:			Date: 26/03/2012		
<div>1. The shutdown time during the current monitoring period has been mentioned in Appendix 2 of revised MR</div> <div>2. Details of prior approval required as per the requirements of paragraph 192 of the Project Standard have been added under section B.1 of revised MR.</div> <div>3. line diagram of the monitoring system showing the relevant monitoring points and the information flow has been added in section C of MR.</div> <div>4. Please refer revised CER calculation sheet for objective evidence.</div>					
Documentation Provided as Evidence by Project Participant:					
Shutdown detail as provided by O&M contractor.					
Revised MR version 02 dated 26/03/2013					
CER calculation sheet version 02 dated 26/03/2013					
Information Verified by Lead Assessor:					
Relevant sections of revised MR version 02 dated 26/03/2013 and CER sheet version 02 dated 26/03/2013 have been checked for the revisions made by the PP					
Shutdown detail as provided by O&M contractor.					
Reasoning for not Acceptance or Acceptance and Close Out:					
<div>1. PP has mentioned the shutdown details under Appendix 2 of revised MR which is found to be consistent with the same provided by O&M contractor, hence accepted.</div> <div>2. The details regarding prior approval for changes is provided under section B.1 of revised MR in line with paragraph 192 of PS, hence accepted.</div> <div>3. In line with MR completion guidelines (EB70, annex 11), line diagram of project activity is provided under section C of revised MR, hence accepted.</div> <div>4. Actual emission reductions achieved during current monitoring period is 35.49% lesser than the estimated CERs as per registered PDD.</div> <div>Emission reduction depends upon the net electricity generation which in case of wind power plants depends on the PLF. As verified through revised CER sheet, the PLF for current monitoring period is 13.9% which is lower than the PLF of 23.78% as assumed while computing emission reduction at the time</div>					

of validation. Hence it can be concluded that lower PLF leading to lower electricity supplied to grid which is ultimately resulting lesser emission reductions in current monitoring period than that in the registered PDD.

CAR#1 closed out.

Acceptance and Close out by Lead Assessor: Closed **Date: 30/03/2013**

Date:	23/03/2013	Raised by:	Assessment Team
Type:	CAR	Number:	#2
		Reference:	Verification Checklist
Lead Assessor Comment:		Date: 23/03/2013	
<ol style="list-style-type: none"> 1. The source of data for all parameters in section D.1 of the MR has been mentioned as "Revised PDD (version 6.0, dated 26/04/2012 & approved by UNFCCC on 13/07/2012)". Please clarify the appropriateness of the same. 2. For all the calculated parameters in section D.2 of the MR, the PP has described the monitoring equipment. Please clarify the appropriateness of the same. 3. For the calculated parameters $\sum EG_{\text{Controller},i}$ and $\sum EG_{\text{Controller}, N,M}$ in section D.2 of the MR, PP has not mentioned the "Calculation method". Please clarify. 			
Project Participant Response:		Date: 26/03/2012	
<ol style="list-style-type: none"> 1. We would like to submit to DOE that post registration there is change in estimated emission reduction which was reported in revised PDD Revised PDD (version 6.0, dated 26/04/2012 & approved by UNFCCC on 13/07/2012. Further we would like to clarify to DOE that at the time of registration of project activity, 'CO2 Baseline Database' was not available as published by CEA. PP has used the power sector data sourced from CEA web-site and calculated the OM, BM & CM as per the applicable emission factor calculation tool. 2. Correction has been made under section D.2 of MR for all the calculated parameters. 3. "Calculation method" for calculated parameters $\sum EG_{\text{Controller},i}$ and $\sum EG_{\text{Controller}, N,M}$ has been mentioned under section D.2 of the MR. 			
Documentation Provided as Evidence by Project Participant:			
Revised MR version 02 dated 26/03/2013			
Information Verified by Lead Assessor:			
Section D of revised MR version 02 dated 26/03/2013 has been checked for the revisions made by the PP.			
Reasoning for not Acceptance or Acceptance and Close Out:			
<ol style="list-style-type: none"> 1. At the time of registration of project activity, CO2 Baseline Database was not published by CEA hence not available to PP; hence the power sector data sourced from CEA web-site was used to calculate the OM, BM & CM as per the applicable emission factor calculation tool. In view of this information revised approved PDD could be the appropriate source of data for OM, BM and CM. Issue closed. 2. PP has revised the information's about calculated parameters, found to be in line with actual practice, hence accepted. 3. The calculation method for the parameter $\sum EG_{\text{Controller},i}$ and $\sum EG_{\text{Controller}, N,M}$ is mentioned under section D.2 of revised MR, found to be in line with actual practice, hence accepted. 			
CAR #2 closed out.			
Acceptance and Close out by Lead Assessor: Closed		Date: 30/03/2013	

Date:	22/04/2013		Raised by:	Assessment Team	
Type:	CAR	Number:	#3	Reference:	TR Comments
Lead Assessor Comment:				Date: 22/04/2013	
<ol style="list-style-type: none"> 1. The value of the estimated CERs is inconsistent between the MR and the ER sheet. 2. A Brief description of the installed technology and equipment is not present in section A.1 as required by the guidelines for completing the MR. 3. Section A.4 of the MR has not been completed as per the guidelines for completing the MR form. The tools used in the PDD and the weblinks for the meth & tools are not referred. 4. The MR completion guidelines requires to provide the description of the installed technology(ies), technical process and equipment, and to include diagrams, where appropriate under section B.1. The same is not followed. Please clarify. 					
Project Participant Response:				Date: 22/04/2013	
<ol style="list-style-type: none"> 1. Inconsistency in the value of the estimated CERs between the MR and the ER sheet has been corrected. 2. A Brief description of the installed technology and equipment has been presented in section A.1 of revised MR as required by the guidelines for completing the MR 3. As per DOE observation tools used in the PDD and the weblinks for the meth & tools has been included in revised MR. 4. Description of the installed technology(ies), technical process and equipment, and diagrams has been included under section B.1 of revised MR. 					
Documentation Provided as Evidence by Project Participant:					
MR (version 3.0) CER calculation sheet (version 3.0)					
Information Verified by Lead Assessor:					
The MR Version 3 dated 22/04/2013 and the ER version 3 dated 22/04/2013 have been checked for the revisions made by the PP.					
Reasoning for not Acceptance or Acceptance and Close Out:					
<ol style="list-style-type: none"> 1. The PP has correctly revised the value of the estimated CERs in the MR to make it consistent with the ER spreadsheet. This has been checked and is accepted. Hence closed. 2. The PP has added a brief description of the installed technology and equipment in section A.1 of the MR. The details inserted by the PP are correct and consistent with the registered PDD. This is in line with the guidelines for completing the MR. hence accepted and closed out. 3. The PP has now mentioned the tools used and has added the reference (weblink) of the methodology and tools. The details have been confirmed to the correct. Thus section A.4 of the MR has now been completed as per the guidelines for completing the MR form. Hence accepted and closed out. 4. The PP has now provided a description of the installed technology, technical process and equipment, and has included a diagram in section B.1 of the MR. This is now as per the guidelines for completing the MR form. Hence accepted and closed out. 					
CAR #3 closed out.					
Acceptance and Close out by Lead Assessor: Closed				Date: 22/04/2013	
Lead Assessor Comment:				Date: Re-opened on 25/04/2013	
<p>The weblink for the methodology mentioned in section A.4 of the MR is not working. Please check the same.</p> <p>The MR contains both Annex 1 and Appendix 2. Please clarify if this is correct.</p> <p>CAR #3 open</p>					
Project Participant Response:				Date: 25/04/2013	
<p>Web-link for the methodology mentioned in section A.4 of the MR has been corrected.</p> <p>Inconsistency has been removed with respect to both Annex 1 and Appendix 2 in revised MR.</p>					

Documentation Provided as Evidence by Project Participant:	
Revised MR version 4.0	
Information Verified by Lead Assessor:	
The MR version 4 dated 25/04/2013 has been checked for the revisions made by the PP.	
Reasoning for not Acceptance or Acceptance and Close Out:	
<p>The PP has corrected the weblink for the methodology mentioned in section A.4 of the MR. It has been checked and found to be working. Hence accepted.</p> <p>PP has revised the heading of Appendix 2 to Annex 2. This is appropriate and hence accepted.</p> <p>The UNFCCC webpage for this project mentions that the Netherlands is directly involved. The same is mentioned in the Host country approval present on the project webpage. Section A.3 of the MR reflects that the Netherlands is indirectly involved. Please clarify this inconsistency.</p> <p>CAR #3 closed out</p>	
Acceptance and Close out by Lead Assessor: Open	Date: 26/04/2013
Project Participant Response:	Date: 26/04/2013
Correction has been made in section A.3 of MR in line with the UNFCCC webpage.	
Documentation Provided as Evidence by Project Participant:	
Revised MR version 5.0	
Information Verified by Lead Assessor:	
Section A.3 of the MR Version 5 dated 26/04/2013 has been checked for the revisions made by the PP.	
Reasoning for not Acceptance or Acceptance and Close Out:	
<p>Against the Party "Netherlands" the PP has mentioned "Yes" in the last column which indicates that the Party Netherlands wishes to be considered as a Project Participant. This is consistent with the Host Country Approval which states that "<i>the State of Netherlands, as a party directly involved in the below stated CDM Project Activity</i>". Hence the revision made by the PP is appropriate and accepted.</p> <p>The date of the revised PDD mentioned in section B.1 of the MR is inconsistent with the revised PDD on the UNFCCC website.</p> <p>Hence CAR #3 is open.</p>	
Acceptance and Close out by Lead Assessor: Open	Date: 29/04/2013
Project Participant Response:	Date: 29/04/2013
Correction has been made in section B.1 of revised MR. Since there is minor editorial change hence version no of revised MR has not been changed.	
Documentation Provided as Evidence by Project Participant:	
Revised MR version 5.0	
Information Verified by Lead Assessor:	
Section B.1 of the revised MR Version 5 dated 26/04/2013 has been checked for the revisions made by the PP.	
Reasoning for not Acceptance or Acceptance and Close Out:	
<p>The PP has correctly revised the date of the revised PDD to 26/04/2012 in section B.1 of the MR. This is consistent with the date of the revised PDD on the UNFCCC website. Hence accepted. The PP has not revised the date of the MR submitted, as mentioned in the response above, since it is a minor editorial revision.</p> <p>CAR #3 closed out.</p>	
Acceptance and Close out by Lead Assessor: Closed	Date: 29/04/2012

10. Statement of Competence

Name: Sudeep Kodialbail

Status

- Lead Assessor	<input checked="" type="checkbox"/>	- Expert	<input checked="" type="checkbox"/>
- Assessor	<input checked="" type="checkbox"/>	- Financial Expert	<input type="checkbox"/>
- Local Assessor	India	- Technical Reviewer	<input type="checkbox"/>

Scopes of Expertise

1. Energy Industries (renewable / non-renewable)	<input checked="" type="checkbox"/>
Technical Area(s): TA 1.2 Energy generation from renewable energy sources	
2. Energy Distribution	<input type="checkbox"/>
Technical Area(s):	
3. Energy Demand	<input type="checkbox"/>
Technical Area(s):	
4. Manufacturing	<input type="checkbox"/>
Technical Area(s):	
5. Chemical Industry	<input type="checkbox"/>
Technical Area(s):	
6. Construction	<input type="checkbox"/>
Technical Area(s):	
7. Transport	<input type="checkbox"/>
Technical Area(s):	
8. Mining/Mineral Production	<input type="checkbox"/>
Technical Area(s):	
9. Metal Production	<input type="checkbox"/>
Technical Area(s):	
10. Fugitive Emissions from Fuels (solid, oil and gas)	<input type="checkbox"/>
Technical Area(s):	
11. Fugitive Emissions from Production and Consumption of Halocarbons and Sulphur Hexafluoride	<input type="checkbox"/>
Technical Area(s):	
12. Solvent Use	<input type="checkbox"/>
Technical Area(s):	
13. Waste Handling and Disposal	<input type="checkbox"/>
Technical Area(s):	
14. Afforestation and Reforestation	<input type="checkbox"/>
Technical Area(s):	
15. Agriculture	<input type="checkbox"/>
Technical Area(s):	

Approved Member of Staff by: Siddharth Yadav Date: 06/02/2012

Name: Ravi Kant
Soni

Status

- Lead Assessor	x	- Expert	x
- Assessor	x	- Financial Expert	
- Local Assessor	India	- Technical Reviewer	x

Scopes of Expertise

1. Energy Industries (renewable / non-renewable)	x
Technical Area(s): TA 1.2 Energy generation from renewable energy sources	
2. Energy Distribution	
Technical Area(s):	
3. Energy Demand	
Technical Area(s):	
4. Manufacturing	
Technical Area(s):	
5. Chemical Industry	
Technical Area(s):	
6. Construction	
Technical Area(s):	
7. Transport	
Technical Area(s):	
8. Mining/Mineral Production	
Technical Area(s):	
9. Metal Production	
Technical Area(s):	
10. Fugitive Emissions from Fuels (solid, oil and gas)	
Technical Area(s):	
11. Fugitive Emissions from Production and Consumption of Halocarbons and Sulphur Hexafluoride	
Technical Area(s):	
12. Solvent Use	
Technical Area(s):	
13. Waste Handling and Disposal	
Technical Area(s):	
14. Afforestation and Reforestation	
Technical Area(s):	
15. Agriculture	
Technical Area(s):	

Approved Member of Staff by: Siddharth Yadav Date: 12/10/2012

Name: Harsh
Raval

Status

- Lead Assessor	x	- Expert	x
- Assessor	x	- Financial Expert	
- Local Assessor	India	- Technical Reviewer	x

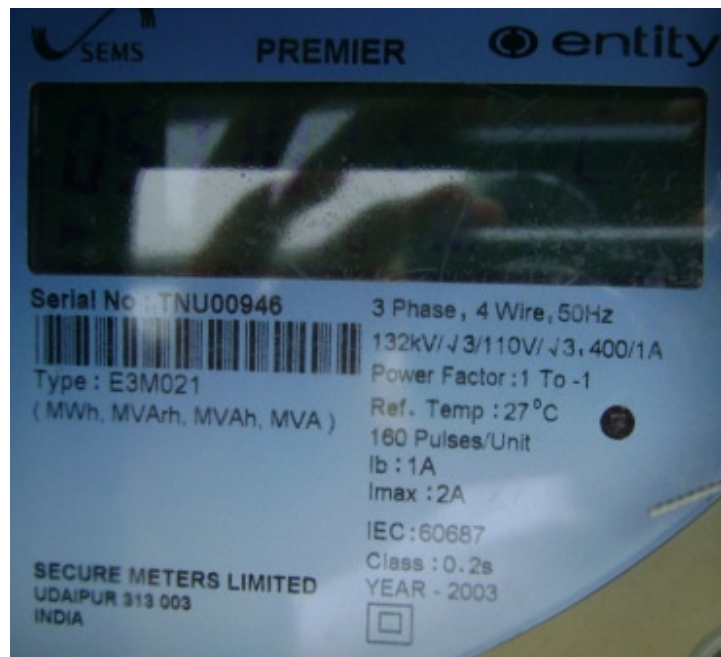
Scopes of Expertise

1. Energy Industries (renewable / non-renewable)	x
Technical Area(s): <i>TA 1.2 Energy generation from renewable energy sources</i>	
2. Energy Distribution	
Technical Area(s):	
3. Energy Demand	
Technical Area(s):	
4. Manufacturing	
Technical Area(s):	
5. Chemical Industry	
Technical Area(s):	
6. Construction	
Technical Area(s):	
7. Transport	
Technical Area(s):	
8. Mining/Mineral Production	
Technical Area(s):	
9. Metal Production	
Technical Area(s):	
10. Fugitive Emissions from Fuels (solid, oil and gas)	
Technical Area(s):	
11. Fugitive Emissions from Production and Consumption of Halocarbons and Sulphur Hexafluoride	
Technical Area(s):	
12. Solvent Use	
Technical Area(s):	
13. Waste Handling and Disposal	
Technical Area(s):	
14. Afforestation and Reforestation	
Technical Area(s):	
15. Agriculture	
Technical Area(s):	

Approved Member of Staff by: Siddharth Yadav Date: 17/07/2012

11. Photographic Evidence

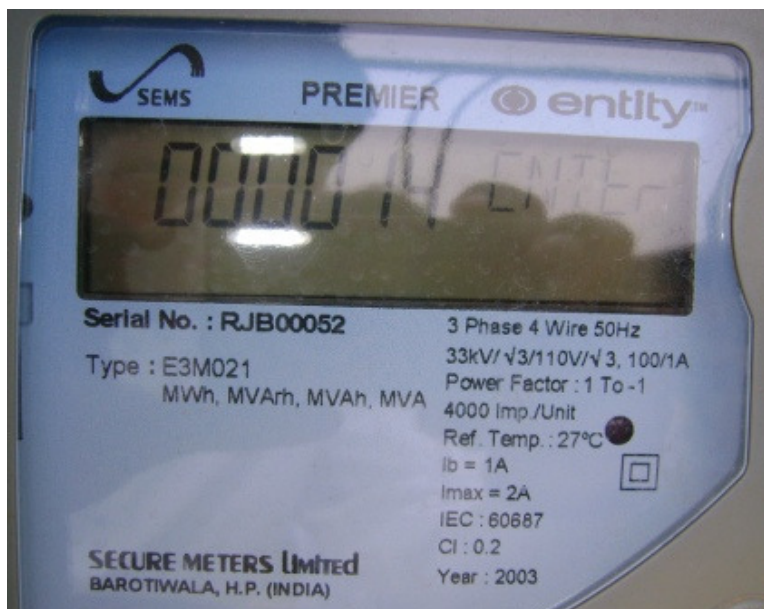
Unique reference number: Meter No. TNU00946 Parameter: Electricity import and export
Name of equipment: Energy Meter (Main Meter Date: 22/03/2013
Line 1 – Amarsagar Substation)



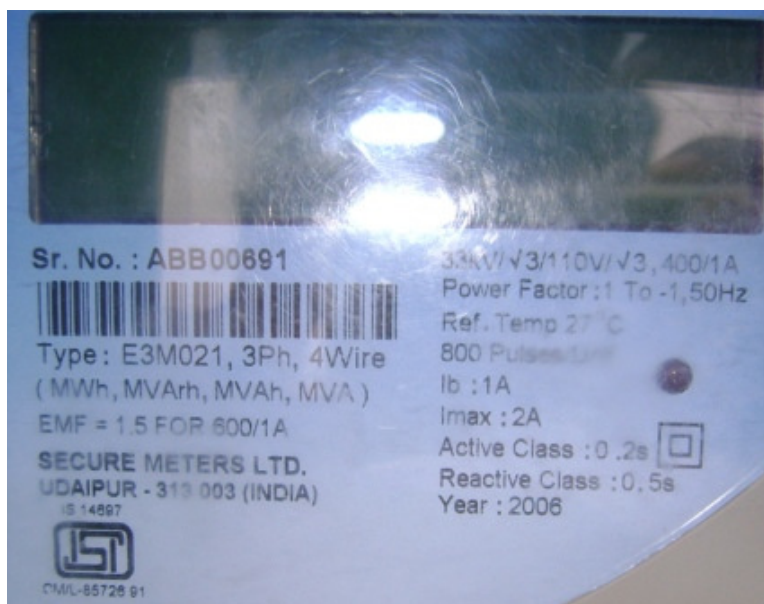
Unique reference number: Meter No. TNU00945 Parameter: Electricity import and export
Name of equipment: Energy Meter (Main Meter Date: 22/03/2013
Line 2 – Amarsagar Substation)



Unique reference number: Meter No. RJB00052 Parameter: Electricity import and export
Name of equipment: Energy Meter (Backup Meter Date: 22/03/2013
Line 1 – Temdarai Substation)



Unique reference number: Meter No. ABB00691 Parameter: Electricity import and export
Name of equipment: Energy Meter (Backup Meter Date: 22/03/2013
Line 1 – Temdarai Substation)



History

Version	EB Requirement	Nature of revision	Validity
Issue 7	VVS version 03.0	Update to checklist to include VVS procedures	23 rd November 2012
Issue 6	VVs Version 02.0	Update to checklist to include VVS procedures	25 th May 2012
Issue 5.4	VVM Version 01.2	Update to checklist	24 th February 2011