

# **Gold Standard**

## **Verification & Certification Report**

Project Title  
**Enercon Wind Farm (Hindustan) Ltd in Rajasthan**  
GS Ref. No. 2483

Monitoring Period: 01/07/2012 – 31/08/2013

For  
**Wind World (India) Limited**  
Report Ref No. & Version  
GS.VER.14.19. V2.1

### **Earthood Services Private Limited**

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## Executive Summary:

| A) Basic information                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |            |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------|--------------------------|
| Project title                                                                                                                                                                                                                                                                                                                                                                                                          | Enercon Wind Farm (Hindustan) Ltd in Rajasthan         |            |                          |
| GS registration number                                                                                                                                                                                                                                                                                                                                                                                                 | GS 2483                                                |            |                          |
| UNFCCC ref number                                                                                                                                                                                                                                                                                                                                                                                                      | 1168                                                   |            |                          |
| Date of registration                                                                                                                                                                                                                                                                                                                                                                                                   | 19/06/2014                                             |            |                          |
| Sectoral scope                                                                                                                                                                                                                                                                                                                                                                                                         | 1, Energy industries (renewable/non-renewable sources) |            |                          |
| Methodology/ies applied                                                                                                                                                                                                                                                                                                                                                                                                | ACM0002, Version 6                                     |            |                          |
| Project participant                                                                                                                                                                                                                                                                                                                                                                                                    | Wind World (India) Limited                             |            |                          |
| B) Verification                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |            |                          |
| Start date of crediting period                                                                                                                                                                                                                                                                                                                                                                                         | 15/03/2010                                             |            |                          |
| Monitoring Period                                                                                                                                                                                                                                                                                                                                                                                                      | 01/07/2012 to 31/08/2013 (both dates included)         |            |                          |
| Vintage Wise                                                                                                                                                                                                                                                                                                                                                                                                           | Monitoring Period (Split)                              | Year       | ERs (tCO <sub>2</sub> e) |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | 01/07/2012 to 30/09/2012                               | 2012       | 29,089                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | 01/10/2012 to 31/12/2012                               |            | 7,659                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | 01/01/2013 to 31/08/2013                               | 2013       | 58,742                   |
| Total ERs verified                                                                                                                                                                                                                                                                                                                                                                                                     | 95,490 tCO <sub>2</sub> e                              |            |                          |
| C) Monitoring report                                                                                                                                                                                                                                                                                                                                                                                                   | Version                                                | Date       |                          |
| Submitted to Earthood                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                                      | 13/11/2014 |                          |
| Final                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                      | 27/12/2014 |                          |
| D) Verification report                                                                                                                                                                                                                                                                                                                                                                                                 | Version                                                | Date       |                          |
| Draft                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.0                                                    | 08/01/2015 |                          |
| Final                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.1                                                    | 03/03/2015 |                          |
| E) Verification Team                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |            |                          |
| Team Leader                                                                                                                                                                                                                                                                                                                                                                                                            | Dr. Kaviraj Singh                                      |            |                          |
| Verifier                                                                                                                                                                                                                                                                                                                                                                                                               | Dr. Kaviraj Singh                                      |            |                          |
| Technical Expert (TA 1.2)                                                                                                                                                                                                                                                                                                                                                                                              | Dr. Kaviraj Singh                                      |            |                          |
| F) Approvals                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |            |                          |
| Technical Reviewer                                                                                                                                                                                                                                                                                                                                                                                                     | Shreya Garg                                            | Date       | 03/03/2015               |
| Technical Expert (TA 1.2)                                                                                                                                                                                                                                                                                                                                                                                              | Shreya Garg                                            |            |                          |
| G) Final opinion                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |            |                          |
| Earthood has performed the GS verification of the project “Enercon Wind Farm (Hindustan) Ltd in Rajasthan” GS Ref. Number 2483 (UN 1168) for the labelling of already verified and issued CERs. The GS verification (labelling) includes confirming the implementation of the monitoring plan of the registered PDD (version 04.1) and Passport for the sustainable development monitoring methodology and parameters. |                                                        |            |                          |
| Earthood confirms that the monitoring system with reference to GS sustainable development paramters is in place for already issued emission reductions from the CDM project activity (UN 1168) “Enercon Wind Farm (Hindustan) Ltd in Rajasthan” in India for the monitoring period 01/07/2012 – 31/08/2013 which amount to <b>95,490 tonnes of CO<sub>2</sub></b> .                                                    |                                                        |            |                          |
| H) Authorization                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |            |                          |
| Quality Manager                                                                                                                                                                                                                                                                                                                                                                                                        | Abhishek Mahawar                                       |            |                          |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                   | 03/03/2015                                             |            |                          |
| I) Distribution                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |            |                          |
| No public distribution without written confirmation from client.                                                                                                                                                                                                                                                                                                                                                       |                                                        |            |                          |

### Abbreviations

|        |                                                       |
|--------|-------------------------------------------------------|
| CAR    | Corrective Action Request                             |
| CDM    | Clean Development Mechanism                           |
| CER    | Certified Emission Reduction                          |
| CL     | Clarification Request                                 |
| DOE    | Designated Operational Entity                         |
| DNA    | Designated National Authority                         |
| EB     | Executive Board                                       |
| EWHPL  | Enercon Wind Farm (Hindustan) Ltd.                    |
| FAR    | Forward Action Request                                |
| GHG    | Greenhouse Gas(es)                                    |
| GS     | Gold Standard                                         |
| IPCC   | Intergovernmental Panel on Climate Change             |
| MW     | Mega Watt                                             |
| MR     | Monitoring Report                                     |
| PDD    | Project Design Document                               |
| QMS    | Quality Management System                             |
| RMP    | Revised Monitoring Plan                               |
| UNFCCC | United Nations Framework Convention on Climate Change |
| WWIL   | Wind World (India) Limited                            |

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## 1. INTRODUCTION

Wind World (India) Limited has contracted Earthood Services Private Limited (Earthood) to conduct the verification and certification, for the additional Gold Standard (GS) requirement, of already verified and issued emission reductions for the project activity “Enercon Wind Farm (Hindustan) Ltd in Rajasthan” (GS-2483 & UN 1168), for the period 01/07/2012 to 31/08/2013.

The verification is the independent review and *ex post* determination by a DOE (Earthood) of the monitored reductions in GHG emissions by doing sustainable development that have occurred as a result of the registered Gold Standard (GS) project activity during a defined monitoring period. Certification is the written assurance by Earthood that, during a specific period in time, a project activity achieved the emission reductions and contributed in sustainable development as verified.

Earthood has verified the implementation of the GS sustainability monitoring plan as described in the GS passport of the project activity. This verification report summarises the findings of the verification process and a certification statement for the GS certified emission reductions and sustainable development achieved by the project in the monitoring period 01/07/2012 to 31/08/2013.

### 1.1 Objective

The objective of this verification was to review the ex-post determination, by an independent entity, of the emission reductions achieved by the project “Enercon Wind Farm (Hindustan) Ltd in Rajasthan” in the period 01/07/2012 to 31/08/2013. The verification includes;

- a) The project activity has been implemented and operated as per the registered PDD and passport or any approved revised PDD, and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place
- b) The monitoring report and other supporting documents provided are complete in accordance with the latest applicable version of the completeness checklist for requests for issuance of CERs, verifiable, and in accordance with applicable GS requirements
- c) The actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan, any revised approved monitoring plan, the approved methodology including applicable tool(s) and/or, where applicable, the approved standardized baseline
- d) The data recorded and stored as per the monitoring methodology including applicable tool(s) and, where applicable, the standardized baseline
- e) The sustainable development indicators are monitored as per the GS passport.

### 1.2 Scope

The scope of the verification is defined as an independent and objective review of the GS project design document, project baseline study and GS monitoring plan and other relevant documents. The review is conducted against the following requirements;

- a) Latest applicable Gold Standard rule (Tool kit version 2.2)
- b) Kyoto protocol requirements
- c) UNFCCC rules and associated procedures
- d) Monitoring plan as given in the registered PDD
- e) Sustainable monitoring plan as described in GS passport

### **1.3 GHG project description**

The project activity involves establishment of Enercon Wind Farm (Hindustan) Ltd. (EWHPL) 60 MW Wind power project in the Indian state of Rajasthan to generate and export the renewable power to the Rajasthan state electricity grid /7/. In absence of the project activity the same amount of power would have been generated from the carbon intensive sources connected to grid.

## **2. METHODOLOGY**

### **2.1 Desk Review**

The verification is performed primarily as a document review of the documents submitted at various stages of assessments. The review is performed by assessment team using dedicated protocols. The assessment team cross checks the information provided in the documents (PDD, MR, GS passport) and information from sources other than those used, if available, and also conducts independent background investigations. Earthood conducted a desk review as under;

- a) A review of the data and information presented to verify their completeness;
- b) A review of the monitoring plan, the monitoring methodology including applicable tool(s) and, where applicable, the applied standardized baseline, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures;
- c) An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions;

The complete list of documents reviewed is included under Section 5.

### **2.2 Site Visits**

A site visit was undertaken by Earthood on 16/12/2014 to carry out following;

- a. An assessment of the implementation and operation of the registered project activity as per the registered GS PDD and passport
- b. A review of information flows for generating, aggregating and reporting the monitoring and sustainable development parameters
- c. Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PDD and GS passport
- d. A cross check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources
- e. A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD, GS passport the applied methodology including applicable tool(s),
- f. A review of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.
- g. A review of the response by project participants to the grievances raised by local stakeholders

## 2.3 Reporting of Findings

The objective of this step is to identify, discuss and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and onsite assessment. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and nonconformities, which may be of following types;

CAR (Corrective Action Request) is raised if one of the following occurs:

- a) Non-compliance with the monitoring plan, the methodology or the standardized baseline 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
- b) Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants
- c) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions
- d) Change to the key sustainable development indicators
- e) Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

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

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

All the findings that are raised and communicated to project participant during the verification are included under Section 6. The section also includes the response, if provided, by the project participants and an assessment by the verification team if it was closed out or otherwise.

## 2.4 Quality Control & Technical Review

A draft verification/validation report that is prepared by assessment team will be reviewed by an independent technical review team (one or more members) to confirm if the internal procedures established and implemented by Earthood were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable Gold Standard and CDM requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team are independent of the validation team. The report approved by Technical Reviewer is endorsed by Quality Manager on behalf of Earthood Services Private Limited, who is overall responsible to ensure quality, before final release. The further details of applicable procedures and responsibilities about Earthood Quality Management System (QMS) are available on its website ([www.earthood.in](http://www.earthood.in)).

### 3. VERIFICATION FINDINGS

This section summarises the findings of the verification.

#### 3.1 Remaining Issues (FAR(s) from validation or previous verification)

| Type                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------|
| FAR 1 & FAR 2                                                                                                                                                                                                                                                                                                                                                                                                                     | Reference | GS Validation report dated 2014-09-29 |
| Description of the Forward Action Request                                                                                                                                                                                                                                                                                                                                                                                         |           |                                       |
| <p>Grievance Mechanism to be put in place by the PP to address the concerns of the stakeholders. And will include its assessment in the first GS Verification Report. The details provided to address the grievance of stakeholder to be verified during the first verification of the project activity.</p> <p>PP to put in place a system so that all the stakeholders have easy access and information about the register.</p> |           |                                       |
| Assessment by Audit Team                                                                                                                                                                                                                                                                                                                                                                                                          |           | Dated: 08/01/2015                     |
| <p>On site observation reveals that a dedicated register has been maintained, the records of grievance filed and addressed by stakeholder. The details about the register to lodge complaint by stakeholder were prominently displayed. No serious complaints were lodged in the register. Thus FAR 1 &amp; 2 are <b>closed</b>.</p>                                                                                              |           |                                       |

#### 3.2 Project implementation

The project activity replaces the energy which is being generated mainly by fossil fuel based power generation plants connected to grid and therefore contributes to sustainable development.

The project activity consists of 75 WEGs of E-48 Enercon make with individual capacity of 800 kW and aggregates to 60 MW in total. All turbines of project activity got commissioned between 26/11/2006 and 25/12/2006 /19, 20/ The WEGs have been in operation during the current monitoring period in compliance with the description provided in the revised PDD.

The project implementation, with reference to registered PDD & passport, was checked on site to confirm the following:

- The monitoring system including the measurement of parameters, data collection and archiving was also implemented and operated inline to the registered PDD and passport /1&7/.
- The emission reduction was achieved in compliance with applied methodology, registered PDD and passport.
- The project contributes to the sustainable development which includes, but not limited to, enhancement of local economy, creating employment and many other benefits to the rural population.

### 3.3 Verification of monitoring parameters (Carbon)

The verification of monitoring parameters, inline to the registered PDD, for the emission reduction during the period 01/07/2012 – 31/08/2013 has already been completed and CER has also been issued by CDM EB /17,18/.

### 3.4 Verification of parameters (Sustainability)

#### 3.4.1 Quality of employment

| Criteria/Requirements                                                                                   | Assessment/Observation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of parameter                                                                                       | It is sustainable development parameter. Quality of employment generated by the project activity is monitored. Project participant conducts various activities on regular basis for improving the quality of employment of its employees. Various indicators of quality of employment viz. quality job creation, working conditions, health care facilities, skill build-up through workshops and trainings, putting safeguard in place and living standard of the plant staff are monitored as and when such activities are organised/16,19,20/.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Units of parameters                                                                                     | The quantitative information about the quality of employment which includes the records of HR, training, health care facilities etc. are maintained /9, 16, 20/.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? | The project passport requires the quality of employment to be monitored on annual basis. The assessment team confirms that the monitoring of quality of employment with reference to various parameters viz. training, occupational health, safety of employees and working environment is being done on annual basis /16,19,20,21/.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| How were the values in the monitoring report verified?                                                  | <p>The following training programmes in order to enhance the safety awareness, operational skills and occupational health management have been organised during the current monitoring period;</p> <ul style="list-style-type: none"> <li>a) Safety training about near miss incident, earthing system &amp; safety work practices at BHU sub station was organised on 25-08-2013 and attended by 03 employees.</li> <li>b) SHE (Safety, Health &amp; Environment) Training at BHU sub-station was organised on 9/02/2013 which was attended by 20 employees.</li> <li>c) General Awareness training which includes safety work instruction and WEC work practice was organised at Jajiya sub-stations on 31/05/2013 and was attended by 26 employees.</li> </ul> <p>The project activity has created the opportunities for the quality jobs like technicians and guards. In total the project activity employed 30 technician and supervisors, 50 security guards</p> |

|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                           | <p>who are mostly from local rural areas.</p> <p>In order to provide access to better health care facilities for local staff the project proponent has collaboration with local health authorities and medical centres /22/. PP has also provided donations, as part of engagement, to the local hospitals for improvement in infrastructure and cover up some expenses of organising the camps. The Bank Payment which states that INR 2,35,773 was paid as engagement amount to the Godawari Construction Company for doing civil work at Jawahar Hospital /12/. An approved receipt from Jeevan Dhara organisation stating that donation was made for conduction of a health check-up camp for employees and nearby villagers./13/</p> <p>Verification team also verified the first aid kits and instruction to be followed in the emergency situation made available for local staff /20/</p> |
| Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place? | <p>Counting of the number of trainings and respective attendees is done by a training attendance sheet which states the programme name, venue, faculty, date and timing, attendee details (employee code, name, designation and department). Each training attendance sheet has a unique form number. Numbers of jobs created has been categorized and records are maintained accordingly. Records of any activity related to the quality of employment is maintained by HR.</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |

### 3.4.2 Access to affordable and clean energy services

| Criteria/Requirements                                                                                   | Assessment/Observation                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of parameter                                                                                       | Electricity generation from the wind power plant                                                                                                                                                                                                                                                                                     |
| Units of parameters                                                                                     | MWh                                                                                                                                                                                                                                                                                                                                  |
| Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? | The total electricity exported to the grid by the project is monitored annually which is in line with the registered PDD and passport /1&3/.                                                                                                                                                                                         |
| How were the values in the monitoring report verified?                                                  | During the current monitoring period, total of 109,277 MWh (33,287 MWh from 01/07/2012 to 30/09/2012 and 75,990 MWh from 01/10/2012 to 31/08/2013) was supplied to the grid using wind energy /5/. The value has been verified during the verification of CER issuance and verified from the project webpage, found to be okay /17/. |

### 3.4.3 Livelihood of the poor

| Criteria/Requirements                                                                                   | Assessment/Observation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of parameter                                                                                       | It's a sustainable development parameter. Total number of local villagers employed for project for their livelihood is monitored by the project proponent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Units of parameters                                                                                     | Total number of local villagers employed by the project activity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? | Total number of job created for the local population is monitored on annual basis or at least once in monitoring period. The HR department monitors and maintains the up to date records of total number of job created /9/. The monitoring frequency is in line with the passport /3/.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| How were the values in the monitoring report verified?                                                  | Total number of job created by the project is 88 which includes technical WWIL staff (30), security guards (50) and contractual labor (8). This is verified from the HR records that all local guards belongs to the local areas/9/. Also, most of the staff of WWIL is from the local areas however it does have some senior personal from outside. The local contracts were also found from the local nearby areas. The assessment team has interviewed the guards and observed that almost all of the personnel were unemployed before taking up the job of security guards with the project developer. Therefore, the assessment team is in opinion that the project activity contributes to the livelihood of the poor. |
| If applicable, has the reported data been cross-checked with other available data?                      | The reported data has been cross checked by means of on-site interview of the employees and other stakeholders as discussed in details in section 3.5 of this document. The information reported in MR was found consistent with records and implementation on site.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### 3.4.4 Human and Institutional capacity

| Criteria/Requirements                                                                      | Assessment/Observation                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of parameter                                                                          | It's a sustainable development parameter which monitors the number of villagers directly or indirectly benefited by the CSR activity initiatives, referring to the project, undertaken by the project proponent. |
| Units of parameters                                                                        | Number of local villagers and type of CSR activity initiated.                                                                                                                                                    |
| Is measuring and reporting frequency in accordance with the monitoring plan and monitoring | The number of local villagers, directly and indirectly benefited by the project activity, is monitored annually which is found in line to the frequency set in passport /3/.                                     |

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| methodology?                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| How were the values in the monitoring report verified? | <p>Project proponent has initiated the number of CSR programmes pertaining to capacity building, health, education etc. The main CSR activities verified are as below;</p> <ul style="list-style-type: none"> <li>• Hospital infrastructure renovation</li> <li>• Donations to schools</li> <li>• Organising medical health checkup</li> <li>• Purchase of water purifiers for village schools</li> <li>• Providing basic amenities to hostel</li> <li>• Arranging camp for educational purposes</li> <li>• Arranging blood donation camp</li> </ul> <p>The assessment team is in opinion that estimation of the exact number of local villagers who have been benefited by these initiatives is very difficult. However, taking note of the type of CSR activities initiated and observation of the stakeholders interviews and time duration of monitoring period, it can be concluded that the number estimated (1000) for the beneficiaries in the MR, is reasonable and conservative. It is also important to note that the social initiatives take care of long term and broad impacts. The parameter was verified using documented evidence like bank payment vouchers, attested letters from organizations concerned, newspaper articles, stakeholder interview and on-site observation and found okay /11,12,13,14,15/.</p> |

### 3.4.5 Quantitative employment and income generation

| Criteria/Requirements                                                                                   | Assessment/Observation                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of parameter                                                                                       | This is a sustainable development parameter to monitor the total number of employment opportunities created.                                                                                                                                                                                                                                                                                                                                  |
| Units of parameters                                                                                     | Number of employment generated                                                                                                                                                                                                                                                                                                                                                                                                                |
| Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? | Total number of job created for the local population is monitored on annual basis or at least once in monitoring period. The HR department monitors and maintains the up to date records of total number of job created /9/. The monitoring frequency is in line with the passport /3/.                                                                                                                                                       |
| How were the values in the monitoring report verified?                                                  | Total number of job created by the project is 88 which includes technical WWIL staff (30), security guards (50) and contractual labor (8). This is verified from the HR records that all local guards belongs to the local areas/9/. Also, most of the staff of WWIL is from the local areas however it does have some senior personal from outside. The local contracts were also found from the local nearby areas. The assessment team has |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>interviewed the guards and observed that almost all of the personnel were unemployed before taking up the job of security guards with the project developer. Therefore, the assessment team is in opinion that the project activity contributes to the livelihood of the poor.</p> <p>In addition to the direct jobs created, quite a few indirect jobs were created by the project activity like frequent visits to the project site by various stakeholders of the project (project developers, technicians, auditors, vendors and suppliers) gives rise to a demand for various support services in the local area. This results in increased livelihood options and income generation for the local population and estimation of such number is a bit difficult task.</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.5 Follow-up Interviews with local stakeholders

| S. No. | Name          | Organization         | Topics discussed                                                                                          | Conclusions |
|--------|---------------|----------------------|-----------------------------------------------------------------------------------------------------------|-------------|
| 1      | Chanesar Khan | Local villager       | Effect of project activity on the livelihood and income generation, and benefits from the CSR activities. | Yes         |
| 2      | Bheer Khan    | Local villager       | Effect of project activity on the livelihood and income generation, and benefits from the CSR activities. | Yes         |
| 3      | Netu Khan     | Local villager       | Effect of project activity on the livelihood and income generation, and benefits from the CSR activities. | Yes         |
| 4      | Mukesh        | Local villager       | Effect of project activity on the livelihood and income generation, and benefits from the CSR activities. | Yes         |
| 5      | Bhagekha      | Local villager       | Effect of project activity on the livelihood and income generation, and benefits from the CSR activities. | Yes         |
| 6      | Dose Khan     | Local villager       | Effect of project activity on the livelihood and income generation, and benefits from the CSR activities. | Yes         |
| 7      | Govind Singh  | Security guard, WWIL | Livelihood, place of origin, work environment, skill enhancement etc.                                     | Yes         |
| 8      | Padam Singh   | Security guard, WWIL | Livelihood, place of origin, work environment, skill enhancement etc.                                     | Yes         |
| 9      | Jamin Khan    | Security guard, WWIL | Livelihood, place of origin, work environment, skill enhancement etc.                                     | Yes         |
| 10     | Bhagwan Singh | Security guard, WWIL | Livelihood, place of origin, work environment, skill enhancement etc.                                     | Yes         |

|    |                 |      |                                                                            |     |
|----|-----------------|------|----------------------------------------------------------------------------|-----|
| 11 | Anushree Mishra | WWIL | Monitoring of sustainable development parameters                           | Yes |
| 12 | Puneet Katyal   | WWIL | Management commandment and future plan towards the sustainable development | Yes |

### 3.6 Comments received as part of grievance mechanism

The grievance mechanism has been found implemented on site inline to the registered GS passport /3/. The assessment team has randomly interviewed the stakeholders, to confirm, if they know about the grievance mechanism wherein they can submit their complaints/comments related to the project. The stakeholders were found aware about system in place for grievance handling on site/7/. PP has summarized all comments received and submitted the summary document to assessment team /23/. The grievance register, used to record all comments from stakeholders, was verified by the assessment team and no critical comments were received during the current monitoring period, from stakeholders /24/. However, stakeholders raised some points as summarized below which doesn't appear complaint in nature but suggestions, to be consideration by the PP;

- a) The PP should generate more employment opportunities for local population
- b) The road repair should be more frequent especially after they got damaged during rainy season.
- c) More efforts should be done for clean water access to the local population
- d) The financial help in distribution of books and stationary for the local students should be scaled up.

#### 4. VERIFICATION & CERTIFICATION STATEMENT

Earthood Services Private Limited (Earthood), contracted by Wind World (India) Limited, has performed the independent verification of the emission reductions for the GS project activity 2483 “Enercon Wind Farm (Hindustan) Ltd in Rajasthan” in India for the monitoring period 01/07/2012 – 31/08/2013. The verification was performed against the gold standard requirements and UNFCCC criteria, The Wind World (India) Limited is responsible for the collection of data in accordance with the GS monitoring plan, preparation of sustainable indicators and the reporting of GHG emissions reductions from the project activity.

Earthood commenced the verification on the basis of the baseline and monitoring methodology ACM0002, Version 6, the monitoring plan contained in the PDD Version 2 dated 20/08/2014, GS passport, Monitoring Report Version 2 dated 27/12/2014 as per the methodology described under Section 2 of this report.

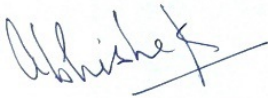
Earthood’s verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Earthood planned and performed the verification by obtaining evidence and other information and explanations that Earthood considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions reported for the project activity for the period 01/07/2012-31/08/2013 are fairly stated in the Monitoring Report (final) Version 2 dated 27/12/2014. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM0002, Version 6 and the monitoring plan contained in the PDD Version 3.1 dated 20/08/2014 and GS passport version 03, dated 23/09/2014.

Earthood Services Private Limited is able to certify that the emission reductions from the GS project activity 2483 “Enercon Wind Farm (Hindustan) Ltd in Rajasthan” in India during the period 01/07/2012-31/08/2013 (including both days) amount to 95,490 tCO<sub>2</sub>e.

**Verified and certified emission reductions as per commitment period in the context of current monitoring period:**

| Vintage wise |                               | Amount                         |
|--------------|-------------------------------|--------------------------------|
| <b>2012</b>  | 01/07/2012 to 30/09/2012 /18/ | <b>29,089 tCO<sub>2</sub>e</b> |
|              | 01/10/2012 to 31/12/2012 /18/ | <b>7,659 tCO<sub>2</sub>e</b>  |
| <b>2013</b>  | 01/01/2013 to 31/08/2013 /18/ | <b>58,742 tCO<sub>2</sub>e</b> |



Abhishek Mahawar

**Quality Manager**

**Earthood Services Private Limited**

03/03/2015

Gurgaon, Haryana, India

## 5. REFERENCES

| S. No. | Title of Document                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | GS PDD, Version 2, dated 20/08/2014                                                                                                                                                                                                                                                                                                                                                                |
| 2      | Validation Report, Revision No. 03, dated 29/09/2014                                                                                                                                                                                                                                                                                                                                               |
| 3      | GS Passport Version 03, dated 23 Sept, 2014                                                                                                                                                                                                                                                                                                                                                        |
| 4      | Monitoring Report Version 1 dated 13/11/2014                                                                                                                                                                                                                                                                                                                                                       |
| 5      | Monitoring Report (final) Version 2 dated 27/12/2014                                                                                                                                                                                                                                                                                                                                               |
| 6      | ER spreadsheet (final)                                                                                                                                                                                                                                                                                                                                                                             |
| 7      | On site verification activities including physical inspection and interviews of the personnel                                                                                                                                                                                                                                                                                                      |
| 8      | Methodologies ACM0002, Version 6                                                                                                                                                                                                                                                                                                                                                                   |
| 9      | HR records for various parameters viz. total number of employees, type of employment, quality of employment etc.                                                                                                                                                                                                                                                                                   |
| 10     | Photographs of working staff at site and security guards                                                                                                                                                                                                                                                                                                                                           |
| 11     | Bank payment voucher in the name of <i>gram panchayat</i>                                                                                                                                                                                                                                                                                                                                          |
| 12     | Bank payment voucher in the name of Godavari Construction Company                                                                                                                                                                                                                                                                                                                                  |
| 13     | Records of donation to Jeevan Dhara Organisation                                                                                                                                                                                                                                                                                                                                                   |
| 14     | Invoice for purchase of water purifier                                                                                                                                                                                                                                                                                                                                                             |
| 15     | Article published in vernacular newspaper                                                                                                                                                                                                                                                                                                                                                          |
| 16     | Training records (attendance, PPT, photographs etc.)                                                                                                                                                                                                                                                                                                                                               |
| 17     | <a href="http://cdm.unfccc.int/Projects/DB/SGS-UKL1181742063.57/view">http://cdm.unfccc.int/Projects/DB/SGS-UKL1181742063.57/view</a>                                                                                                                                                                                                                                                              |
| 18     | <a href="http://cdm.unfccc.int/Projects/DB/SGS-UKL1181742063.57/iProcess/KBS_Cert1351664933.92/view">http://cdm.unfccc.int/Projects/DB/SGS-UKL1181742063.57/iProcess/KBS_Cert1351664933.92/view</a><br><a href="http://cdm.unfccc.int/Projects/DB/SGS-UKL1181742063.57/iProcess/BVQI1380607368.62/view">http://cdm.unfccc.int/Projects/DB/SGS-UKL1181742063.57/iProcess/BVQI1380607368.62/view</a> |
| 19     | Records of Safety system and procedures implemented on site                                                                                                                                                                                                                                                                                                                                        |
| 20     | Records of health care and first aid facilities for employees available on/off site                                                                                                                                                                                                                                                                                                                |
| 21     | Policy, procedure and records for occupational safety                                                                                                                                                                                                                                                                                                                                              |
| 22     | Records of engagement of local hospitals                                                                                                                                                                                                                                                                                                                                                           |
| 23     | PP summary of comments received, through grievance mechanism, from stakeholders                                                                                                                                                                                                                                                                                                                    |
| 24     | Grievance Register available on site                                                                                                                                                                                                                                                                                                                                                               |

## 6. FINDINGS (CAR/CL/FAR)

|                                                                                                                                                                                                                                                                                                                                                                               |           |                       |      |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|------|------------|
| Type                                                                                                                                                                                                                                                                                                                                                                          | Date      | 16/12/2014            |      |            |
| CL 01                                                                                                                                                                                                                                                                                                                                                                         | Reference | Verification protocol |      |            |
| Description of the Non Conformance                                                                                                                                                                                                                                                                                                                                            |           |                       |      |            |
| <p>The sustainable development parameters, for example quantity and quantity of employment etc., doesn't include the following information in the MR</p> <ul style="list-style-type: none"><li>• Monitored values (current and baseline situation and future targets)</li><li>• Training provided to them</li><li>• Type of job created</li></ul>                             |           |                       |      |            |
| 1 <sup>st</sup> Response from PP                                                                                                                                                                                                                                                                                                                                              | Date      | 27/12/2014            |      |            |
| <p>The MR has been revised and in all the SD parameters the details as required are incorporated.</p> <ol style="list-style-type: none"><li>1. The monitored values are mentioned in the revised MR.</li><li>2. Training details have been enclosed in the MR.</li><li>3. Types of Job created due project installation have also been mentioned in the revised MR.</li></ol> |           |                       |      |            |
| 1 <sup>st</sup> Assessment by Audit Team                                                                                                                                                                                                                                                                                                                                      | Status    | Closed                | Date | 05/01/2015 |
| <p>The above mentioned details have been provided in the revised monitoring report (MR Version 2), thus CL stands closed out.</p>                                                                                                                                                                                                                                             |           |                       |      |            |

|                                                                                                                                                                      |           |                       |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|------------|------------|
| Type                                                                                                                                                                 | Date      | 16/12/2014            |            |            |
| CL 02                                                                                                                                                                | Reference | Verification protocol |            |            |
| Description of the Non Conformance                                                                                                                                   |           |                       |            |            |
| The numbers of SD parameters reported in MR are not consistent with the GS passport. GS requires 5 parameters to be monitored however only 3 are reported in the MR. |           |                       |            |            |
| 1 <sup>st</sup> Response from PP                                                                                                                                     |           | Date                  | 27/12/2014 |            |
| The MR has been revised and all 5 SD parameters are incorporated as referred in the validated Passport.                                                              |           |                       |            |            |
| 1 <sup>st</sup> Assessment by Audit Team                                                                                                                             | Status    | Closed                | Date       | 05/12/2015 |
| The revised version of MR (Version 2) lists down all 5 SD parameters which were incorporated in the validated passport. Thus, CL stands closed out.                  |           |                       |            |            |

## 7. CV OF VERIFICATION TEAM

| Competence Statement |                                                                                                        |      |            |
|----------------------|--------------------------------------------------------------------------------------------------------|------|------------|
| Name                 | Dr. Kaviraj Singh                                                                                      |      |            |
| Country              | India                                                                                                  |      |            |
| Education            | Masters (Environment)<br>Masters (Energy & Environment)<br>Doctorate (Environmental Engg.)             |      |            |
| Experience           | 7+ Years in CDM at different roles.<br>Completed more than 100 CDM projects as auditor & 4 GS projects |      |            |
| Field                | Climate Change, Environment, Energy, Waste Management                                                  |      |            |
| Approved Roles       |                                                                                                        |      |            |
| Team Leader          | YES                                                                                                    |      |            |
| Validator            | YES                                                                                                    |      |            |
| Verifier             | YES                                                                                                    |      |            |
| Financial Expert     | NO                                                                                                     |      |            |
| Technical Reviewer   | YES                                                                                                    |      |            |
| TA Expert (1.2)      | YES                                                                                                    |      |            |
| Reviewed by          | Abhishek Mahawar                                                                                       | Date | 06/04/2014 |
| Approved by          | Ashok K Gautam                                                                                         | Date | 06/04/2014 |

| Competence Statement |                                                                   |      |            |
|----------------------|-------------------------------------------------------------------|------|------------|
| Name                 | Shreya Garg                                                       |      |            |
| Country              | India                                                             |      |            |
| Education            | M Sc (Climate Science and Policy)                                 |      |            |
| Experience           | 3+ Years<br>Completed more than 15 CDM projects and 2 GS projects |      |            |
| Field                | Climate Change & Environment                                      |      |            |
| Approved Roles       |                                                                   |      |            |
| Team Leader          | YES                                                               |      |            |
| Validator            | YES                                                               |      |            |
| Verifier             | YES                                                               |      |            |
| Financial Expert     | NO                                                                |      |            |
| Technical Reviewer   | YES                                                               |      |            |
| TA Expert (1.2)      | YES                                                               |      |            |
| Reviewed by          | Ashok Gautam                                                      | Date | 14/11/2014 |
| Approved by          | Kaviraj Singh                                                     | Date | 14/11/2014 |

| History of the document |            |                    |                  |            |                |            |
|-------------------------|------------|--------------------|------------------|------------|----------------|------------|
| Version                 | Date       | Nature of Revision | Prepared by      |            | Reviewed by    |            |
|                         |            |                    | Name             | Date       | Name           | Date       |
| 1.0                     | 24/11/2014 | Initial adoption   | Abhishek Mahawar | 23/11/2014 | Ashok K Gautam | 23/11/2014 |