

VERIFICATION REPORT

“BUNDLED WIND ENERGY GENERATION PROJECTS IN GUJARAT, INDIA”

FINAL

**RINA**

Document Prepared By RINA Services S.p.A. (RINA)

Project Title	Bundled wind energy generation projects in Gujarat, India
Version	1.1 Aa
Report ID	2014-IQ-37-MD

Report Title	Verification report for “Bundled wind energy generation projects in Gujarat, India”
Client	Wind World (India) Limited
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Summary:

RINA Services S.p.A. (RINA), commissioned by Wind World (India) Limited. has verified the greenhouse gas emission reductions reported for the project activity “Bundled wind energy generation projects in Gujarat, India” in India, VCS project ID 412, for the period 01/01/2014 to 31/05/2014. The verification includes confirming the implementation of the monitoring plan of the registered VCS PD (Project ID 412) and the application of the monitoring methodology as per ACM0002 version 6 dated 18/05/2006. A site visit was conducted to verify the data submitted in the monitoring report.

The project under consideration is set up to produce clean power from the wind electric converters. The generated electricity is wheeled using the state transmission system for captive consumption. The project activity consists of the 72 machines of Enercon make of 800 KW each and 3 machine of Enercon make of 600 KW, totaling to the capacity of 59.4 MW in the state of Gujarat. The generated electricity is supplied to the NEWNE grid (earlier it was known as Western grid as per registered VCS project description /02/) comprising mainly fossil fuel based power plants.

The purpose and scope of this verification is to ensure that reported emission reductions are complete and accurate in accordance with applicable VCS standards and guidelines in order to be certified. The GHG emission reductions were calculated on the basis of the approved methodology ACM0002, version 06, “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” of 18/05/2006, the monitoring plan mentioned in the monitoring report version 02 of 01/12/2014 and in the registered Project Description Document, version 4 of 22/05/2007.

During this verification, 02 Corrective Action Request (CAR) 03 Clarification Requests (CLs) were identified related to the monitoring, implementation or operations of the proposed VCS project activity (Monitoring Report version 01 of 04/11/2014) in relation to all relevant VCS requirements for the project activity and the applied baseline and monitoring methodology, and these CARs and CLs are successfully closed after necessary corrections/clarifications by the client. The same has been discussed in Appendix A of this verification report.

In conclusion, it is RINA’s opinion that the project activity “Bundled wind energy generation projects in Gujarat, India” in India, VCS project ID 412, meets all relevant requirements for VCS standard and guidelines and correctly applies the baseline and monitoring methodology ACM0002, version 06, “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” of 18/05/2006. The monitoring system is in place and the emission reductions are calculated without material misstatement. Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01/01/2014 to 31/05/2014 amount to 31,686 tCO₂e.

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1 INTRODUCTION

1.1 Objective

RINA has been commissioned by “Wind World (India) Limited” to perform an independent verification of its VCS project, “Bundled wind energy generation projects in Gujarat, India”, already registered under VCS with Project ID. 412 for the reported GHG emission reductions for the given monitoring period 01/01/2014 up to 31/05/2014. The VCS projects must undergo independent third party verification and certification of emission reductions as the basis for issuance of Voluntary Emission Reductions (VERs/VCUs).

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

- The project activity has been implemented and operated as per the project description (PD) and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- Monitoring report and other supporting documents are complete;
- The data is recorded and stored as per the monitoring methodology and approved monitoring plan.
- To confirm that the monitoring system is implemented and fully functional to generate Voluntary Emission Reductions (VERs/VCUs) without any double counting, and

To establish that the data reported are accurate, complete, consistent, transparent and free of material error or omission by checking the monitoring records and the emissions reduction calculation.

1.2 Scope and Criteria

The verification scope is:

- to verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- to evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement;
- to verify that reported GHG emission data is sufficiently supported by evidence.

The project is assessed against the requirements of VCS version 3 and related rules and guidance. RINA has, based on the recommendations in the latest version of CDM Validation and Verification Manual, and employed a rule-based approach (as criteria) in the verification, focusing on the identification of significant reporting rules and the reliability of project monitoring.

Verification is not meant to provide any consultancy towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring.

1.3 Level of Assurance

All the revisions of the verification report before being submitted to the client were subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent RINA instructions.

The technical review was performed by a technical reviewer(s) qualified in accordance with RINA's qualification scheme for VCS and CDM validation and verification.

The verification team and the technical reviewers consist of the following personnel.

Role	Last Name	First Name	Country
Team Leader, Verifier & Technical Expert	Buragohain	Champak	India
Technical Expert	Mathew	Vijay	India
Technical reviewer	Menon	Rekha	India

1.4 Summary Description of the Project

The purpose of the proposed project is to sufficiently utilize the wind energy to generate electricity, which is delivered to NEWNE grid (earlier it was known as Western grid as per registered VCS project description /02/). All the electricity supplied by the proposed project to the grid substitutes the equivalent electricity of the NEWNE grid, which is dominated by fossil-fuel fired power plants, to avoid GHG emissions.

The proposed project is a newly-built wind power project involves the installation of total capacity of 59.4 MW power plant consisting of 72 machines of Enercon make of 800 KW each and 3 machine of Enercon make of 600 KW. The project also contributes to sustainable development of the local community with environmental and economic benefits. The project is located in Jamnagar district of Gujarat state in India.

The main information of the project activity is summarized in the table below:

Project Participant(s)	Wind World (India) Limited formerly known as Enercon (India) Ltd		
Project Title	Bundled wind energy generation project in Gujarat, India		
Location of the project	Jamnagar district of Gujarat state in India		
Methodology(ies)	ACM0002, version 06, "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" of 18/05/2006		
Sectoral Scope(s)	01	RINA's Technical Area(s)	1.2
Registered PDD	Revision 04 of 22/05/2007		
Starting date of the crediting period	01/06/2004		
Project's crediting period	01/06/2004 to 31/05/2014 (fixed)		

Project documentation link	https://vcsprojectdatabase2.apx.com/myModule/Interactive.asp?Tab=Projects&a=2&i=412&lat=22%2E011389&lon=69%2E170361&bp=1
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2 VERIFICATION PROCESS.

2.1 Method and Criteria

Verification was conducted using RINA procedures in line with the requirements specified in the VCS Requirements, i.e. VCS Program Guide, VCS Version 3 (v3.5), Requirements Document of 08/10/2013 and VCS Standard, VCS Version 3 (v3.4), Requirements Document of 08/10/2013. The GHG emission reductions are on the basis of the approved Baseline and monitoring methodology “ACM0002”, “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, version 6 of 18/05/2006.

The verification consisted of the following three phases

- Document review;
- On-site assessment including Interviews and Site Inspections;
- Resolution of Any Material Discrepancy and the issuance of the final verification report and certification.

The following sections outline each step in more detail.

2.2 Document Review

The monitoring report (MR) version 02 of 01/12/2014, version 01 of 04/11/2014 **/01/**, the emission reduction calculations spreadsheet (ER Sheet_version 01.xls) version 01 of 04/11/2014 **/03/**, were assessed as part of the verification. In addition the registered Project Design Document (CDM PDD)**/02/** in particular the baseline estimations and the monitoring plan for the project were reviewed.

The following table lists the documentation that was reviewed during the verification

/01/	Wind World (India) Limited: VCS monitoring report for the project activity “Bundled wind energy generation projects in Gujarat, India”, version 1.0 of 04/11/2014, version 2.0 of 01/12/2014
/02/	Wind World (India) Limited: Registered VCS project description for project activity “Bundled wind energy generation projects in Gujarat, India” in India, version 4 of 22/05/2007
/03/	Wind World (India) Limited: Emission Reduction spread sheet titled “ER Sheet_version 01” version 01 of 04/11/2014
/04/	VCS: VCS Program Guide, VCS Version 3 (v3.5), Requirements Document of 08/10/2013
/05/	VCS: VCS Standard, VCS Version 3 (v3.4), Requirements Document of 08/10/2013
/06/	CDM Executive Board: Approved consolidated baseline and monitoring methodology “ACM0002”, “Consolidated methodology for grid-connected electricity generation from renewable sources”, version 06 of 18/05/2006
/07/	VCS: Monitoring report form (MONITORING REPORT: VCS Version 3) , version 03.3 dated 08/10/2013
/08/	Det Norske Veritas: Report No. 46072030 verification report and certification statement for

	the project activity “Bundled wind energy generation projects in Gujarat, India” dated 14/02/2007
/09/	SGS: Report ID CCP.VOL0824 MP07 (VCS ID 412) 7 th Verification report for the project “Bundled wind energy generation projects in Gujarat, India” for the monitoring period 01/05/2013 to 31/12/2013 dated 28/07/2014
/10/	Gujarat Energy Transmission Corporation Limited: Monthly share certificate issued for the project activity for the months from January, 2014 to May, 2014
/11/	VCS: Bundled wind energy generation projects in Gujarat, India https://vcsprojectdatabase2.apx.com/myModule/Interactive.asp?Tab=Projects&a=2&i=412&lat=22%2E011389&lon=69%2E170361&bp=1 The website is in English language retrieved on 19/11/2014.
/12/	Central Electricity Authority (CEA): CO ₂ Baseline Database for the Indian Power Sector User Guide, Version 1.1, December 2006. http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm The website is in English language retrieved on 19/11/2014.
/13/	Gujarat Energy Development Agency: Tested Report for the Energy Meters with serial nos GJB00486 and GJU07452 of Bhogat substation and for the meter with serial no. GJB 00267 and GJB00269 of Navadra Substation dated 09/12/2013 and 13/12/2013
/14/	Central Electricity Authority (CEA): Regulations on Installation and Operation of meters Notification No. 502/70/CEA/DP&D dated 17/03/2006 and amendments notified No.502/6/2009/DP&D/D-I dated 26/06/2010
/15/	Gujarat Energy Transmission Corporation Ltd: Letter with reference to Commercial ABT Meter testing/calibration frequency for Wind Farm s/s. dated 04/01/2012.
/16/	Gujarat Energy Development Agency: Commissioning certificates for the project activity submitted on dated 17/11/2014
/17/	Wind World (India) Limited: Invoice copies submitted to State Utility by respective WTGs owners for the amount of electricity exported for the period 01/01/2014 to 31/05/2014

2.3 Interviews

Interviews: The key personnel interviewed and the main topics of the interviews are summarized in the table below:

	Date	Name and Role	Organization	Topic
1	20/11/2014	Anushree Mishra (Asst. Manager)	Wind World (India) Limited	Project description, evidences for proof of title, Monitoring plan, ownership of GHG emission reductions, Project Start Date, Commercially Sensitive Information, Other Programs
2	20/11/2014	B.K.Kudegiyan (Site Engineer)	Wind World (India) Limited	Monitoring plan & QA/QC procedures
3	20/11/2014	Imran Khan (Site Engineer)	Wind World (India) Limited	Monitoring plan & QA/QC procedures
4		Devendra	Suzlon Energy	Monitoring plan & QA/QC

	20/11/2014	Singh (Site Engineer)	Limited	procedures
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2.4 Site Inspections

On 20/11/2014, RINA visited the project site villages in Satapar, Okhamadhi, Navadra, Bamnasa, Jodhpar and Kurunga of Jamnagar District in state of Gujarat to check the WTGs and Bhogat and Navadra substation managed by Wind World India Limited. During the on-site assessment of the project RINA assessed the implementation and operation of the proposed project activity, accessed the installed equipment directly, interviewed key personnel of the plant to confirm the operation information, the commissioning of WTGs, the GHG Programs undertaken.

2.5 Resolution of Findings

The objective of this phase of the validation is to resolve any outstanding issues which need to be clarified for RINA's positive conclusion on the project description. To guarantee transparency any findings raised regarding to the validation are incorporated in the Verification Protocol and Verification Protocol Tables in Appendix A to this report.

2.5.1 Forward Action Requests

Based on the review of last verification report for the monitoring period (01/05/2013 to 31/12/2013) /09/, no FAR was raised for this project activity and also no FAR is raised during this monitoring period (01/01/2014 – 31/05/2014).

2.6 Eligibility for Validation Activities

Not applicable to this project activity. This project activity is registered under the VCS version 01. Thus it is concluded that all the rules and validation requirements set by the VCS were already taken care of at the time of the VCS validation of the project activity. Thus no further validation is required for the project activity.

3 VALIDATION FINDINGS

Not applicable to this project activity. This project activity is registered under the VCS version 01. Thus it is concluded that all the rules and validation requirements set by the VCS were already taken care of at the time of the VCS validation of the project activity. Thus no further validation is required for the project activity.

3.1 Participation under Other GHG Programs

The project activity is already registered under the VCS version 1 (VCS Project ID 412) hence no gap validation is required.

3.2 Methodology Deviations

There is no methodology deviations applied to the project.

3.3 Project Description Deviations

The company Indo Fashions Pvt. Ltd. who is one of the project developers merged with the company Surbhi Textiles Mills Pvt. Ltd. In August, 2010. This issue was covered under the deviation taken during the fourth verification of this project activity (monitoring period from 01/07/2010 to 31/07/2011).

The deviation was accepted and approved by the VCS board and hence valid from fourth verification onward. The assessment team confirms that the deviation does not impact any of the following:

- The applicability of the methodology
- Additionality
- The appropriateness of the baseline scenario.

The assessment team also confirms that the deviation is appropriately described and justified in the monitoring report, and the project remains in compliance with the VCS rules and hence concluded that the project deviation is valid.

There is no deviation observed during the current verification period. During the site visit it is confirmed that the implementation of the project activity is in accordance with the project description mentioned in the registered VCS PD.

3.4 Grouped Project

The verification team confirms that the project is not a grouped project and hence this is not applicable to the project activity.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

The findings of the verification related to the monitoring period from 01/01/2014 to 31/05/2014 as documented and described in the VCS monitoring report version 01 of 04/11/2014 **/01/** are stated in the following sections. The verification requirements, the means of verification and the results from verifying the identified criteria are documented in more detail in the verification protocol in Appendix A.

RINA confirmed that the project implementation is in line with the description in registered PDD **/02/** by site visit. RINA performed a physical site visit on 20/11/2014 to verify the actual implementation of the project against the description in its registered PDD **/02/** and found that all 72 WTGs are in operation with a total installed capacity of 59.4 MW, which is in line with the registered PDD **/02/**. All the WTGs were in normal operation at the time of the physical site visit by RINA. Crosschecking with the nameplates of individual WTG, the model of the WTGs and technical information of WTGs were consistent with that described in registered PDD. These implementations are in line with the description in registered PDD **/01/**. The description in MR Version 01 **/01/** is also consistent with the actual implementation confirmed as above. Therefore RINA confirmed that there is no material discrepancy between the actual project information and the project description.

4.2 Accuracy of GHG Emission Reduction and Removal Calculations

According to the applied methodology “ACM0002”, “Consolidated baseline methodology for grid connected electricity generation from renewable sources”, version 6 of 18/05/2006 **106/**, the emission reductions have been calculated based on the following formula:

$$ER_y = BE_y - PE_y - L_y$$

Where,

ER_y : Emission reductions in year y (tCO₂e/yr)

BE_y : Baseline emissions in year y (tCO₂e/yr)

PE_y : Project emissions in year y (tCO₂e/yr)

L_y : Leakage in year y (tCO₂e/yr)

The baseline emissions (BE_y) for the project activity are calculated as follows:

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

$$EG_{PJ,y} = EG_{facility,y}$$

Where,

$EG_{facility,y}$: Quantity of net electricity generation supplied by the project plant/unit to the grid in year y

$EF_{grid,CM,y}$: Combined margin emission factor for grid connected power generation in year calculated ex-ante, as 0.94022 tCO₂/MWh **102/**

Combined margin emission factor was fixed ex-ante at the time of validation. The value was cross checked with the registered PDD and found to be consistent.

Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity ($EG_{PJ,y}$)

$$EG_{PJ,y} = EG_{facility,y} = 33,700.799 \text{ MWh}$$

As per the methodology and the registered PDD, the project does not need consider project and leakage emissions.

Hence $ER_y = BE_y$

i.e. $ER_y = 33,700.799 * 0.94022 = 31,686 \text{ tCO}_2\text{e}$

4.3 Quality of Evidence to Determine GHG Emission Reductions and Removals

The emission reduction calculations provided in the spreadsheet /03/ have been verified to be correct and in line with the registered PD /02/.

The emission reductions from the project for the monitoring period as reported in the monitoring report (01/01/2014 to 31/05/2014) version 02 of 01/12/2014 /01/ is 31,686 tCO₂e. The annual estimated CERs are 68,155 tCO₂e (for the period 01/01/2006 to 31/12/2006) in the registered PDD which results per day CERs 186.72 (considering 365 days in a year).

The current monitoring period covers 151 days resulting per day CERs 209.84, which is slightly higher than the estimated and the reason is due to the increase in the PLF. However, there is no impact on additionality due to the higher PLF in the project activity. The same has been confirmed from the registered PDD and validation report /02/, /08/. Additionality was justified independent of any impact on PLF.

The following parameters were available at validation as per the registered VCS PD/02/ and the validation report /08/:

DATA/PARAMETER Unit	Source of data	Reported value for the project period	Assessment/Observation
EF_{OM,y} , Operating margin CO ₂ emission factor of the grid in year y	CO ₂ Baseline Database for the Indian Power Sector, Version 1.1, CEA /02/, /12/	Western Regional Electricity Grid – 0.9945 tCO ₂ /MWh	The value is ex-ante fixed for 10 years crediting period as per the registered PD, which has been justified and validated by validation DOE to follow the applied methodology and tool already approved by EB /08/, /12/.
EF_{BM,y} , Build margin CO ₂ emission factor of the grid in year y	CO ₂ Baseline Database for the Indian Power Sector, Version 1.1, CEA /02/, /12/	Western Regional Electricity Grid – 0.7772 tCO ₂ /MWh	The value is ex-ante fixed for 10 years crediting period as per the registered PD, which has been justified and validated by validation DOE to follow the applied methodology and tool already approved by EB /08/, /12/.

Data and parameters monitored ex-post

Data/Parameter	Assessment
Data Unit	EG _v (MWh)
Description	Net electricity supplied to the grid in MWh by the project during the monitoring period 01/01/2014 to 31/05/2014.
Source of data to be used	Certification of metering records and share certificate for electricity produced by wind farm provided by GEDA (Gujarat Energy Development Agency) /10/

	This is in line with the registered PD /02/.																							
Value of monitored parameter for the monitoring period	33, 700.799 /03/, /10/																							
Monitoring equipment	Monitoring is performed by energy meters. The details of the meters are given below. <table><tr><td colspan="2">Bhogat Substation</td><td colspan="2">Navadra Substation</td></tr><tr><td>Meter Serial No :</td><td>Meter Serial No :</td><td>Meter Serial No :</td><td>Meter Serial No :</td></tr><tr><td>GJB 00486</td><td>GJU 07452</td><td>GJB 00267</td><td>GJB 00269</td></tr><tr><td>Accuracy Class:</td><td>Accuracy Class:</td><td>Accuracy Class:</td><td>Accuracy Class:</td></tr><tr><td>0.5%</td><td>0.2%</td><td>0.5%</td><td>0.5%</td></tr></table>				Bhogat Substation		Navadra Substation		Meter Serial No :	Meter Serial No :	Meter Serial No :	Meter Serial No :	GJB 00486	GJU 07452	GJB 00267	GJB 00269	Accuracy Class:	Accuracy Class:	Accuracy Class:	Accuracy Class:	0.5%	0.2%	0.5%	0.5%
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Accuracy of the monitoring equipment	<table><tr><td colspan="2">Bhogat Substation</td><td colspan="2">Navadra Substation</td></tr><tr><td>Meter Serial No :</td><td>Meter Serial No :</td><td>Meter Serial No :</td><td>Meter Serial No :</td></tr><tr><td>GJB 00486</td><td>GJU 07452</td><td>GJB 00267</td><td>GJB 00269</td></tr><tr><td>Accuracy Class:</td><td>Accuracy Class:</td><td>Accuracy Class:</td><td>Accuracy Class:</td></tr><tr><td>0.5%</td><td>0.2%</td><td>0.5%</td><td>0.5%</td></tr></table>				Bhogat Substation		Navadra Substation		Meter Serial No :	Meter Serial No :	Meter Serial No :	Meter Serial No :	GJB 00486	GJU 07452	GJB 00267	GJB 00269	Accuracy Class:	Accuracy Class:	Accuracy Class:	Accuracy Class:	0.5%	0.2%	0.5%	0.5%
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Accuracy Class:	Accuracy Class:	Accuracy Class:	Accuracy Class:																					
0.5%	0.2%	0.5%	0.5%																					
Measuring/Reading/Recording frequency	Continuously monitored and monthly recording.																							
Calcualtion method (if applicable)	Data is sourced from GETCO certificates. PP does not do any calculation of apportioning. This is in line with the registered PD /02/.																							
Calibration																								
Calibration frequency/interval Is the calibration interval in line with the monitoring plan of the PDD?	All the meters at the project site and WWIL substation are calibrated and tested once in a period of three years by GETCO /15/. As per PDD 'The meters will be jointly inspected/ tested once in a year as per the terms of the Wheeling arrangement'. However, the terms has been changed to once in three years in the later stage of the project activity. PP has submitted Gujarat Energy Transmission Corporation Ltd's Letter with reference to Commercial ABT Meter																							

	testing/calibration frequency for Wind Farm s/s. dated 04/01/2012 /15/. The monitoring period covers 01/01/2014 to 31/05/2014. Following is the table with calibration dates. <table><tr><th>Meter Serial No</th><th>2013</th><th>Calibration due on</th></tr><tr><td>GJB 00486</td><td>09-Dec-2013</td><td>09-Dec-2016</td></tr><tr><td>GJU 07452</td><td>09-Dec-2013</td><td>09-Dec-2016</td></tr><tr><td>GJB 00267</td><td>13-Dec-2013</td><td>13-Dec-2016</td></tr><tr><td>GJB 00269</td><td>13-Dec-2013</td><td>13-Dec-2016</td></tr></table> The verification team has cross verified the calibration interval and found that a there is no delay of calibration during the monitoring period /01/, /13/, /15/.	Meter Serial No	2013	Calibration due on	GJB 00486	09-Dec-2013	09-Dec-2016	GJU 07452	09-Dec-2013	09-Dec-2016	GJB 00267	13-Dec-2013	13-Dec-2016	GJB 00269	13-Dec-2013	13-Dec-2016
Meter Serial No	2013	Calibration due on														
GJB 00486	09-Dec-2013	09-Dec-2016														
GJU 07452	09-Dec-2013	09-Dec-2016														
GJB 00267	13-Dec-2013	13-Dec-2016														
GJB 00269	13-Dec-2013	13-Dec-2016														
Does the calibration cover the monitoring period? Has the calibration frequency been respected?	The verification team has cross verified the calibration interval and found that a there is no delay of calibration during the monitoring period /01/, /13/, /15/ and the calibration covers the monitoring period.															
Calibration certificates	<table><tr><th>Meter no.</th><th>Calibration details</th></tr><tr><td>GJB 00486, GJU 07452, GJB 00267, GJB 00269</td><td>Calibration Certificate issued by GEDA dated 09/12/2013, and 13/12/2013 /13/.</td></tr></table>	Meter no.	Calibration details	GJB 00486, GJU 07452, GJB 00267, GJB 00269	Calibration Certificate issued by GEDA dated 09/12/2013, and 13/12/2013 /13/.											
Meter no.	Calibration details															
GJB 00486, GJU 07452, GJB 00267, GJB 00269	Calibration Certificate issued by GEDA dated 09/12/2013, and 13/12/2013 /13/.															
Does the calibration of meters have been done by an accredited person or institution?	The calibration of the meters have been performed by an accredited institution /13/.															

The data presented in the monitoring report /01/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. Sufficient evidence was presented and verified by RINA for the reported emission reductions as listed in the above Section 3.

Data was collected based on a data management procedure as described in the registered PD /02/. The monitoring and reporting of electricity data is in accordance with well established operational procedures. The site visit confirmed that the management system for the VCS project is in place and can be traced, such as the organizational structure with responsibilities, monitoring procedure and monitoring management, emergency treatment procedure and competence criteria of VCS personnel involved in the project. The organizational structure, responsibilities have been detailed in the MR for the project activity and were found to be adequate as confirmed during the site visit. Thus, the management and operational system: the responsibilities and authorities for monitoring and reporting are in accordance with the responsibilities and authorities stated in the monitoring plan.

4.4 Non-Permanence Risk Analysis

Not applicable as it is a non-AFOLU project.

5 VERIFICATION CONCLUSION

RINA Service S.p.A (RINA) has performed verification of the emission reductions reported for the project activity “Bundled wind energy generation projects in Gujarat, India” in India, VCS Registration Reference ID - 412, for the VCS monitoring period from 01/01/2014 to 31/05/2014, with regard to the relevant requirements for VCS and CDM rules.

The project participant Wind World (India) Limited of the project “Bundled wind energy generation projects in Gujarat, India” is responsible for:

- The preparation of greenhouses gas emissions data and the reported greenhouse gas emission reductions from the project on the basis set out in the monitoring plan contained in the registered VCS Registration Reference ID - 412, for the VCS monitoring period from 01/01/2014 to 31/05/2014.
- The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of greenhouse gas emission reductions of the project.

It is the responsibility of RINA to express an independent verification opinion about the project's conformity with the VCS requirements and procedures and on the reported greenhouse gas emission reductions from the project.

Based on documented evidence and corroborated by an on-site assessment RINA can confirm that:

- The project has been implemented and operated as per the registered VCS PD;
- The monitoring plan in the registered VCS-PD is as per the applied baseline and monitoring methodology.

- The monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS and CDM requirements

It is RINA's opinion that the GHG emission reduction stated in the VCS monitoring report version 02 of 01/12/2014 for the "Bundled wind energy generation projects in Gujarat, India" in India for the period 01/01/2014 to 31/05/2014 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the baseline and monitoring methodology, consolidated methodology for grid-connected electricity generation from renewable sources, version 06 of 18/05/2006.

Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01/01/2014 to 31/05/2014 amount to 31,686 tCO₂e.

Reporting period: From [01-01-2014] to [31-05-2014]

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

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
Year 2014	31, 686	0	0	31, 686

APPENDIX A

VERIFICATION PROTOCOL

TABLE 1 REQUIREMENTS CHECK LIST

Checklist Question		Reference	MoV ¹	Comments	Conclusion
A Monitoring Report					
A.1	Does the used project title clearly enable the reader to identify the unique VCS project activity? Is there an indication of a revision number, the date of the revision and the monitoring period?	/01/, /02/, /07/, /08/	DR/CC	Yes; the title of the project activity is unique. The Monitoring report also provides the revision number i.e. version 1.0 and date of the report is 04/11/2014. The monitoring period for the project activity is 01/01/2014 to 31/05/2014.	OK
A.2	Does the project comply with the applicable requirements for completing the Monitoring Reports (latest version available)?	/01/, /04/, /05/, /07/	DR	Yes; the project complies with the applicable requirements for completing the Monitoring Report. The Monitoring report is in line with VCS Program Guide Version 3 (v3.5) dated 08/10/2013, VCS Standard Version 3 (v3.4) dated 08/10/2013 and VCS: Monitoring report template (v3.2), VCS version 03.3 dated 08/10/2013.	OK
A.3	Does the MR comply with the template available (latest version)?	/01/, /07/	DR	The PP has used the latest MR template available.	OK
B Description of Project Activity					
B.1	Is the actual implementation and operation of the proposed project activity in accordance with the project activity in the registered PDD?	/01/, /02/, /08/, /09/	DR	The project activity consists of the 72 machines of Enercon make of 800 KW each and 3 machine of Enercon make of 600 KW, totaling to the capacity of 59.4 MW in the state of Gujarat. The generated electricity is supplied to the NEWNE grid. The project description is found consistent with the	~~CAR-01~~ ~~CL-01~~ OK

¹ MoV: DR document review, I interview, CC cross checking

Checklist Question		Reference	MoV ¹	Comments	Conclusion
				registered PDD, validation report and the previous verification reports. RINA has performed a site visit to verify the real implementation of the project against the description in the monitoring report and; found that the project implementation is in accordance with the monitoring report. However, in the section 1.1 of the monitoring report say that 'the generated electricity is supplied to the NEWNE grid' which is not consistent with the registered VCS PD. Further, PP is requested to Power purchase agreement (Wheeling and banking agreements) between entities involved (other investors) and GUVNL.	
B.2	In case of deviation between the registered project and the actual implementation/operation, do they comply with the requirements of the Project Standards?	/01/, /02/, /08/, /09/	DR	Not applicable.	OK
B.3	For project activity that consist of more than one site: describe the status of the implementation and starting date of operation of each site; For project activity with phased implementation: describe the progress of the proposed project activity achieved in each phase number; if the phased implementation is delayed, described the reasons and the expected implementation dates.	/01/, /02/, /08/, /09/	DR/CC /I	The project activity is at Jamnagar district in Gujarat state, India. The physical location has been confirmed during the site visit. The project activity is in operation stage. The project started on 29/01/2004 and last verification was completed on 28/07/2014	OK
B.4	Methodology and methodological tool applied for the registered project activity	/01/, /02/, /06/, /08/, /09/	DR/CC	Project activity applies the methodology ACM0002, "Consolidated methodology for grid-connected	OK

Checklist Question		Reference	MoV ¹	Comments	Conclusion
				electricity generation from renewable sources”, version 06 of 18/05/2006. This methodology is applicable to the project activity as it is a greenfield wind power generation.	
C Compliance of the monitoring activities with the registered monitoring plan / Compliance of the monitoring plan with the monitoring methodology and methodological tool					
C.1 Monitoring plan					
C.1.1	Does the monitoring plan included in the registered CDM project activity comply with the applied methodology?	/01/, /02/, /06/, /08/, /09/	DR/CC	Yes, the monitoring plan in the registered VCS-PD complies with the applied methodology ACM0002, version 06 of 18/05/2006.	OK
C.1.2	Does the monitoring comply with the monitoring plan in the registered VCS-PD?	/01/, /02/, /06/, /08/, /09/	DR/I	Yes, the monitoring during this monitoring period complies with the registered VCS-PD.	OK
C.2 Data and parameters fixed ex-ante or at renewal crediting period					
C.2.1	Which parameters were available at validation and how were they verified?	/01/, /02/, /06/, /08/, /09/, /12/	DR/CC	EF_{OM,y}: Operating margin Emission Factor of national electricity grid (Western grid). The value for this parameter is 0.9945 tCO₂/MWh which is available and fixed as per the registered VCS PD; and the same was taken from the official data published by CEA. The correctness of the value has been confirmed by the validation team. EF_{BM,y}: Build Margin Emission factor Factor of national electricity grid (Western grid). The values for this parameter is 0.7772 tCO₂/MWh which is available and fixed as per the registered VCS PD; and the same was taken from the official data published by CEA. The correctness of the value has been confirmed by the validation team.	OK

Checklist Question		Reference	MoV ¹	Comments	Conclusion								
				EF_{CO2, grid,y}: Combined margin emission Factor of national electricity grid (Western grid). The values for this parameter is 0.9402 tCO₂/MWh which is available and fixed as per the registered VCS PD; and the same was taken from the official data published by the CEA. The correctness of the value has been confirmed by the validation team. The value of the above parameters are derived from the registered VCS PD and is consistent with the value in the validation report and pervious verification report, the value of the parameter will be fixed during the whole fixed crediting period.									
C.2.2	What default data were selected and applied?	/01/, /02/, /06/, /08/, /09/, /12/	DR/CC	Please refer to section C.2.1 above.	OK								
C.3 Data and parameters monitored ex-post													
C.3.1	Which parameter have been monitored during the monitoring period? (Data/Parameter monitored / Data unit / Description / Source of data to be used / Value data for the monitoring period)	/01/, /02/, /06/, /08/, /09/, /10/	DR/CC	The following parameter is being monitored during the current monitoring period which is in line with the registered VCS-PD: <table><tr><td>Data/Parameter:</td><td>EG_y</td></tr><tr><td>Data unit:</td><td>MWh</td></tr><tr><td>Description:</td><td>Net electricity supplied to the grid by the Project</td></tr><tr><td>Source of data:</td><td>Certification of metering records and share certificate for electricity</td></tr></table>	Data/Parameter:	EG _y	Data unit:	MWh	Description:	Net electricity supplied to the grid by the Project	Source of data:	Certification of metering records and share certificate for electricity	CL-02 OK
Data/Parameter:	EG _y												
Data unit:	MWh												
Description:	Net electricity supplied to the grid by the Project												
Source of data:	Certification of metering records and share certificate for electricity												

Checklist Question		Reference	MoV ¹	Comments		Conclusion				
				<table><tr><td></td><td>produced by wind farm provided by GEDA (Gujarat Energy Development Agency).</td></tr><tr><td>Value(s) of monitored parameter:</td><td>33, 700.799</td></tr></table>		produced by wind farm provided by GEDA (Gujarat Energy Development Agency).	Value(s) of monitored parameter:	33, 700.799		
	produced by wind farm provided by GEDA (Gujarat Energy Development Agency).									
Value(s) of monitored parameter:	33, 700.799									
				PP has submitted the ER sheet; and the EG _y value used for the calculation of Emission reduction is consistent with that of the value mentioned in the monitoring report. However, PP is requested to submit the Monthly share certificate issued for the project activity for the months of January 2014, February 2014 and March 2014. Further PP is requested to submit the Invoices for project activity for current monitoring period raised by PP to state utility.						
C.3.2	Is the measurement equipment described? Is the accuracy of the measurement equipment addressed and deemed appropriate?	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	<table><tr><td>Electricity meter Serial No.</td><td>GJB 00486</td></tr><tr><td>Name of WWIL Substation</td><td>Bhogat</td></tr></table>		Electricity meter Serial No.	GJB 00486	Name of WWIL Substation	Bhogat	~~CAR-02~~ OK
Electricity meter Serial No.	GJB 00486									
Name of WWIL Substation	Bhogat									

Checklist Question		Reference	MoV ¹	Comments		Conclusion
				Accuracy Class	0.5%	
				Date of calibration	09-Dec-2013	
				Electricity meter Serial No.	GJU 07452	
				Name of WWIL Substation	Bhogat	
				Accuracy	0.2%	
				Date of calibration	09-Dec-2013	
				Electricity meter Serial No.	GJB 00267	
				Name of WWIL Substation	Navadra	
				Accuracy	0.5%	
				Date of calibration	13-Dec-2013	

Checklist Question		Reference	MoV ¹	Comments		Conclusion								
				<table><tr><td>Electricity meter Serial No.</td><td>GJB 00269</td></tr><tr><td>Name of WWIL Substation</td><td>Navadra</td></tr><tr><td>Accuracy</td><td>0.5%</td></tr><tr><td>Date of calibration</td><td>13-Dec-2013</td></tr></table>	Electricity meter Serial No.	GJB 00269	Name of WWIL Substation	Navadra	Accuracy	0.5%	Date of calibration	13-Dec-2013		
Electricity meter Serial No.	GJB 00269													
Name of WWIL Substation	Navadra													
Accuracy	0.5%													
Date of calibration	13-Dec-2013													
				As per the section 3.3 of the monitoring report all the meters at the project site and WWIL substation are calibrated and tested once in a period of three years by GETCO. The last calibration for the energy meters were performed on 09/12/2013 and 13/12/2013. However, the calibration due date mentioned in the monitoring report are 09/12/2014 and 13/12/2014; which is not in line with the frequency mentioned.										
C.3.3	Is the measuring/reading/recording frequency adequate for all monitoring parameters? Is it in line with the registered monitoring plan?	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Yes, the measuring, reading and recording frequency is adequate for the monitoring parameter. However Please refer to section C.3.1 above.	~~CL-02~~ OK									
C.4 Calibration requirements														
C.4.1	Are the requirements for maintenance and calibration of measurement equipment described and deemed appropriate?	/01/, /02/, /06/, /08/, /09/, /10/	DR/CC	Please refer to section C.3.2 above.	~~CAR-02~~									

Checklist Question		Reference	MoV ¹	Comments	Conclusion
		/13/			OK
C.4.2	Does the calibration cover the monitoring period?	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	The calibration frequency is mentioned in the monitoring report as once in a period of three years. However, PP is requested to submit letter issued by GUVNL confirming the calibration frequency.	~~CL-03~~ OK
C.4.3	Has the calibration frequency been respected?	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Please refer to section C.3.2 and C.4.2 above.	~~CAR-02~~ ~~CL-03~~ OK
C.4.4	Does the calibration of meters have to be done by an accredited person or institution?	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Please refer to section C.3.2 and C.4.2 above.	~~CAR-02~~ ~~CL-03~~ OK
C.4.5	In case of delay, describe the applied maximum permissible error	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Please refer to section C.3.2 and C.4.2 above.	~~CAR-02~~ ~~CL-03~~ OK
C.5 Monitoring of the sustainable indicators					
C.5.1	Is the monitoring of sustainable development indicators/ environmental impacts warranted by legislation in the host Country?	/01/, /02/, /06/	DR	The monitoring of sustainable development indicators/environmental impacts is not required by legislation of the host country, nor required by the applied methodology ACM0002, version 06 of 18/05/2006.	OK

Checklist Question		Reference	MoV ¹	Comments	Conclusion
C.6 Management system and quality control					
C.6.1	How has it been assessed that the monitoring arrangements described in the monitoring plan are feasible within the project design?	/01/, /02/, /06/, /08/, /09/	DR/I	On the date of the site visit, RINA can confirm that the monitoring arrangements described in the monitoring plan are feasible within the project design which follows the methodology requirements.	OK
C.6.2	Are procedures identified for day-to-day record handling (including what records to keep, storage area of records and how to process performance documentation)? Will all monitored data required for verification and issuance be kept for two years after the end of the crediting period or the last issuance of CERs, for this project activity, whichever occurs later?	/01/, /02/, /06/, /08/, /09/	DR	Please refer to section C.3.1 above.	CL-02 OK
C.6.3	Are the data management and quality assurance and quality control procedures sufficient to ensure that the emission reductions achieved by/resulting from the project can be reported ex post and verified?	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Please refer to section C.3.1, C.3.2 and C.4.2 above.	CAR-02 CL-02 CL-03 OK
C.6.4	Are the responsibilities and authorities for monitoring and reporting in accordance with the responsibilities and authorities stated in the monitoring plan?	/01/, /02/, /06/, /08/, /09/	DR	Yes, the responsibilities and authorities for monitoring and reporting are in accordance with the responsibilities and authorities stated in the monitoring plan as confirmed through the onsite visit and interview with related staff.	OK
C.6.5	Does data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions?	/01/, /02/, /06/, /08/, /09/	DR, CC, I	As confirmed by the on-site visit, the operational and management structure set up by the project developer can ensure the correct transfer of data and ER reporting.	OK

Checklist Question		Reference	MoV ¹	Comments	Conclusion
D.1 Assessment of data and calculation of emission reductions/Accuracy of emission reduction calculations					
D.1.1	How were the values in the monitoring report verified and cross-checked?	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Please refer to section C.3.1, C.3.2 and C.4.2 above.	~~CAR-02~~ ~~CL-02~~ ~~CL-03~~ OK
D.1.2	If only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Please refer to section C.3.1, C.3.2 and C.4.2 above.	~~CAR-02~~ ~~CL-02~~ ~~CL-03~~ OK
D.1.3	Emission reductions reported	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Please refer to section C.3.1, C.3.2 and C.4.2 above.	~~CAR-02~~ ~~CL-02~~ ~~CL-03~~ OK
D.1.4	Difference between the emission reductions estimated in the registered PDD and the emission reductions reported for the monitoring period.	/01/, /02/, /06/, /08/, /09/, /10/, /13/	DR/CC	Please refer to section C.3.1, C.3.2 and C.4.2 above.	~~CAR-02~~ ~~CL-02~~ ~~CL-03~~

Checklist Question	Reference	MoV ¹	Comments	Conclusion
				OK

TABLE 2 RESOLUTION OF CORRECTIVE ACTION REQUESTS AND CLARIFICATION REQUESTS

Corrective action and/ or clarification requests	Reference to Table 2	Response by project participants	Verification Conclusion
CAR 01 The section 1.1 of the monitoring report say that 'the generated electricity is supplied to the NEWNE grid' which is not consistent with the registered VCS PD.	B.1	Section 1.1 of the moniroing report (MR) has been made consistent with the VCS PD. Please refer to the revised MR, section 1.1.	PP has revised the MR and the revisions made is found appropriate. Hence accepted. CAR 01 is closed
CAR 02 As per the section 3.3 of the monitoring report all the meters at the project site and WWIL substation are calibrated and tested once in a period of three years by GETCO. The last calibration for the energy meters were performed on 09/12/2013 and 13/12/2013. However, the calibration due date mentioned in the monitoring report are 09/12/2014 and 13/12/2014; which is not inline with the frequency mentioned.	C.3.2, C.4.1, C.4.3, C.4.4, C.4.5, C.6.3, D.1.1, D.1.2, D.1.3, D.1.4	The calibration due date has been changed in the revised MR. Please refer to the revised MR, section 3.3.	PP has revised the MR and the revisions made is found appropriate. Hence accepted. CAR 02 is closed
CL 01 PP is requested to Power purchase agreement (Wheeling and banking agreements) between entities involved (other investors) and GUVNL.	B.1	The Power purchase agreement (Wheeling and banking agreement) has been submitted to the DOE.	PP has submitted the Power purchase agreement (Wheeling and banking agreement), which is found appropriate. Hence CL 01 is closed.
CL 02 PP is requested to submit the Monthly share certificate issued for the project activity for the months of January 2014, February 2014 and March 2014. Further PP is requested to submit the Invoices for project activity for current	C.3.1, C.3.3, C.6.2, C.6.3, D.1.1, D.1.2, D.1.3, D.1.4	The monthly share certificates for the months of January 2014, February 2014 and March 2014 have been submitted to the DOE. The invoices of the current monitoring	PP has submitted the documents and the documents submitted are found appropriate. Hence CL 02 is closed.

Corrective action and/ or clarification requests	Reference to Table 2	Response by project participants	Verification Conclusion
monitoring period raised by PP to state utility		period have been submitted to the DOE.	
CL 03 PP is requested to submit letter issued by GUVNL confirming the calibration frequency.	C.4.2, C.4.3, C.4.4, C.4.5, C.6.3, D.1.1, D.1.2, D.1.3, D.1.4	The calibration frequency has been mentioned in the Power purchase agreement (Wheeling and banking agreement). In line with the same, the calibration frequency has been mentioned in the MR.	PP has submitted the letter issued by GUVNL confirming the calibration frequency, which is found appropriate. Hence CL 03 is closed.



RINA

CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Champok Buragohain

è qualificato come¹:
is qualified as:

CDM/GS/VCS/JI/SC -TEC
CDM/VCS/GS -VAL, -VER, -TL

per le seguenti aree tecniche:
for the following technical areas:

1.2, 13.2, 15.2

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Energy generation from renewable energy sources	1
13.2	Animal Waste Management	13
15.2	Animal Waste Management	15

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	19-01-2011	-
8	26-05-2014	Update qualification according to IS-QPT-GHG-00 REV13

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS : Verified Carbon Standard:
GS: Gold Standard
SCS: SocialCarbon Standard
JI: Joint Implementation

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports



RINA

**CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Mathew Vijay

è qualificato come¹:
is qualified as:

**CDM/GS/VCS/JI/SC-TEC,
CDM-VAL, VCS-VAL**

per le seguenti aree tecniche:
for the following technical areas:

1.2

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Energy generation from renewable Energy sources	1

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	02/08/2012	-
1	16/05/2014	Update qualification according to IS-QPT-GHG-00 REV13

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS : Verified Carbon Standard:
GS: Gold Standard
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RINA

CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Rekha Menon

è qualificato come¹:
is qualified as:

**CDM/GS/VCS/JI/SC –TEC
CDM/VCS/GS/ACR –VAL, -VER, TL
TECHNICAL REVIEWER**

per le seguenti aree tecniche:
for the following technical areas:

1.2, 13.1, 13.2, 14.1, 15.2

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Energy generation from renewable energy sources	1
13.1	Waste Handling and Disposal	13
13.2	Animal waste management	13
14.1	Forestry	14
15.2	Animal waste management	15

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	06-03-2008	-
9	03/06/2014	Update qualification according to IS-QPT-GHG-00 REV13

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS: Verified Carbon Standard
GS: Gold Standard
SCS: SocialCarbon Standard
JI: Joint Implementation

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports