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VCS Verification / Certification Report

Enterprise

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Service

Audit/Assessment:	VCS Verification
Audit/Assessment beginning/end:	14.12.2010 / 18.5.2011
Normative base:	Voluntary Carbon Standard 2007.1 & ACM0002
Project name:	Grouped Wind Power Project in India, "Mitcon III"
GBZ/Report-No.:	P30640.43

Team of auditors/assessors:	Mr Silvio Leonardi Mr Rudolf Brodbeck
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Approved by

Lead auditor/assessor:
Mr Silvio Leonardi

Reviewer:
Mr Oliver Stankiewicz

Executive board:
Mr Beat Moser

Date

18 May 2011

19 May 2011

19 May 2011

Signature

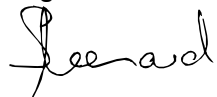


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1 Introduction

1.1 Objective

South Pole Carbon Asset Management Ltd. ("Southpolecarbon") has retained SQS to perform a verification of the Grouped Wind Power Project in India, "Mitcon III" ("the project").

The objective of the verification is an independent assessment by a Designated Operational Entity ("DOE") of a proposed project activity against the defined set of criteria under the Voluntary Carbon Standard / Verified Carbon Standard (VCS).

1.2 Scope and Criteria

The DOE uses a risk-based approach focusing on the identification of significant risks for project implementation and the generation of VCU based on the following applicable requirements of the Voluntary Carbon Standard:

- Ensuring that the project activity has been implemented and operated as per the registered PD and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- Ensuring that the monitoring report and other supporting documents provided are complete and verifiable and in accordance with applicable VCS requirements;
- Ensuring that actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology;
- Evaluating the data recorded and stored as per the monitoring methodology;
- Applying a reasonable level of assurance;
- Applying materiality of 5 per cent except for mega projects where it shall be 1 per cent.

1.3 VCS Project Description

The project is a grouped project activity that generates renewable electricity from wind power in India. The generated renewable electricity will displace an equivalent amount of carbon intensive electricity from the Northern, Eastern, Western and Northeastern Grid (NEWNE) as well as the Southern Grid in India. The group is expected to lead to an annual average reduction of 130,195 t CO₂e over the crediting period. The group consists of 72 projects in five states of India comprising 111 WTGs with installed WTG capacities ranging from 0.225 to 1.5 MW and yielding a total of 74.9 MW grid-connected renewable electricity generations.

According to UNFCCC definitions, the project is a Large-Scale projects activity in scope 1 "Energy industries (renewable)" and applies the approved methodology ACM0002: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources (Version 10)".

The main purpose of the project activity is:

- To generate electrical energy through sustainable means using natural wind power resources;
- To utilize the generated electricity output for selling it to the state electricity utilities and for captive use as the case may be;
- To contribute to climate change mitigation efforts;

Apart from generating renewable electricity, the project has also been conceived for the following:

- To enhance the propagation of commercialization of wind turbines in the region;
- To contribute to the sustainable development of the region;
- To reduce the prevalent regulatory risks for this project through revenues from emission trade.

Project participant (ownership) is Southpolecarbon.

The project starting date is March 14th 2004 (1st WTG commissioned).

The third monitoring period starts August 1st 2009 and ends June 30th 2010.

1.4 Level of Assurance

Based on the process and the procedures conducted, SQS provides a reasonable but not absolute level of assurance that the project's greenhouse gas assertion is materially correct and a fair representation of the greenhouse gas data and information. The term *reasonable* is to be understood in accordance with the definition in ISO14064-3, A.2.3.

2 Verification Methodology

The SQS auditors apply standard auditing techniques to assess the quality of the information provided by Southpolecarbon, including but not limited to:

(a) Desk review, involving:

- Review of the data and information presented to verify their completeness
- Review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures
- 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
- Cross-checks of data and information provided with documents provided and used for the validation

(b) On-site assessment, involving:

- Assessment of the implementation and operation of the proposed VCS project activity as per the registered PD
- Review of information flows for generating, aggregating and reporting the monitoring parameters
- Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the PD
- A cross-check between information provided in the monitoring report and data from other sources such as plant log books, inventories, purchase records or similar data sources
- A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD and the selected methodology
- Review of calculations and assumptions made in determining the GHG data and emission reductions
- Identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

Unlike the desk review (during which all necessary documents for all 111 WTGs were checked), the on-site audit was based on a sampling procedure.

If, during the verification of a project activity, the auditor identifies issues related to the monitoring, implementation or operations of the proposed VCS project activity that could impair the capacity of the proposed VCS project activity to achieve emission reductions or influence the reporting of emission reductions, the auditor ensures that these issues are correctly identified, discussed and concluded in the verification report.

2.1 Requests

The auditor shall raise a corrective action request (CAR) if one of the following occurs:

- (a) Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient
- (b) Mistakes have been made in applying assumptions, data or calculations of emission reductions which will impair the estimate of emission reductions
- (c) Issues identified in a FAR during validation to be verified during verification have not been resolved by the project participants.

The auditor shall raise a clarification request (CL) if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

The auditor shall raise a forward action request (FAR) during verification for actions if the monitoring and reporting require attention and/or adjustment for the next verification period.

All CARs and CLs raised by the auditor during verification shall be resolved prior to submitting a request for issuance.

The completed summary of requests is enclosed in Appendix A to this report.

2.2 List of interviewees and documents reviewed

The on-site audit and interviews were done according to an audit-plan (see Appendix B).

The following stakeholders have been interviewed during the verification (see Appendix C).

The following documents have been assessed during the verification (see Appendix D).

2.3 Verification Team and Reviewer

The following matrix shows the names and roles of the members of the verification team and the reviewer.

The reviewer is not a member of the verification team.

Name	Country	Responsibilities								
		Lead	Desk review	On-site audit	Legal	Financial	Report	Verification team	Local expertise	Review/ Approval
Silvio Leonardi	Switzerland	X	X	X	X	X	X	X		
Rudolf Brodbeck	Switzerland		X					X		
Oliver Stankiewicz	Switzerland									X

Certificates of Competence for each verification team member are included in Appendix D to this report.

2.4 Quality Control

The draft verification report, including the initial verification findings, undergoes an internal peer review (by a member of the verification team). The final verification report undergoes a review for final approval carried out by a reviewer (not a member of the verification team) before requesting issuance of VCUs. The reviewer is qualified in accordance with SQS's qualification scheme for VCS validation and verification.

3 Findings of the Desk Review and Site Visit

3.1 Remaining issues, including any material discrepancy from previous verification

There are no pending issues from the previous verification.

3.2 Project implementation in accordance with the registered project design document

The grouped project was found to be implemented as planned regarding the physical erection of the WTGs, their operation and maintenance, and the controlling and monitoring, including the central GHG information system run by the local project manager, Mitcon Consultancy Services Ltd. ("Mitcon").

3.3 Completeness of Monitoring

In the course of checking and verifying the monitoring report, SQS raised 5 CARs and 14 CLs. All requests could be closed after verifying the requested responses/amendments.

Finally, the monitoring report, version 2.2 of May 16th 2011, was found to be complete and the verification team concluded that the monitoring plan is applied correctly and completely.

However, 2 FARs have been raised that need to be cleared at the next verification: cf. Chapter 5, Appendix A: Summary of Requests.

3.4 Accuracy of Emission Reduction Calculations

The Excel-spreadsheet (“MITCON - III Emission Reductions As per EB 52 Annex 60 @16 05 2011.xls”) that completed the monitoring report was found to be fully reproducible. The formulas (including the grid emission factors) used to calculate the emission reductions in t CO_{2e} were found to be applied correctly and yielded accurate results.

The table shows a copy of the spreadsheet with the summary of ERs expected and claimed in t CO_{2e} for each year of the monitoring period. The used baseline emission factors (EF_{grid,CM,y}) are shown, too.

Projec size	Crediting Year	Expected EGy (kWh)	Expected ER t CO _{2e}	Actual EGy (kWh)	Monitoring Period	Expected ERs t CO _{2e}	Claimed ERs t CO _{2e}
51.55 MW	2006	62782000	57'332				
66.4 MW	2007	113885360	103'894				
74.9 MW	2008	142522060	130'195				
74.9 MW	2009	142522060	130'195	133'361'267	01/08/2009 to 30/06/2010	119345	95852
74.9 MW	2010	142522060	130'195	54'932'225			
74.9 MW	2011	142522060	130'195				
74.9 MW	2012	142522060	130'195				
74.9 MW	2013	142522060	130'195				
74.9 MW	2014	142522060	130'195				
74.9 MW	2015	142522060	130'195				
23.35 MW	2016	79740100	72'863				
8.5 MW	2017	28636700	26'300				

Regional Grid	Baseline emission factor (EF _{grid,CM,y})
NEWNE Regional Grid	0.906 tCO ₂ /MWh
Southern Regional Grid	0.927 tCO ₂ /MWh

3.5 Quality of Evidence to Determine Emission Reductions

The necessary data is monitored and recorded electronically. In addition, WTG-owners have online access to monitor the electricity production of their windmills. All data was cross-checked with meter-readings (by state authorities) and accordant invoices (by WTG-owners) for the electricity that was supplied to the grid.

The quality of evidence to determine emission reductions was found to be adequate and sufficient.

3.6 Management and Operational System

The central GHG information system is managed by Mitcon, an ISO 9001 certified company in Pune, India; in addition Mitcon is surveying the calibration of all meters. Operation and maintenance of the WTGs are executed by the service company Suzlon, having a contract with the WTG-owners. Representatives of both the Mitcon head office and the service company have been audited.

The management and operational system were found to be suitable and professional.

4 Verification Conclusion

SQS has performed the 3rd verification of the project 'Grouped Wind Power Project in India, "Mitcon III"'.

SQS used the CDM consolidated methodology ACM0002: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources (Version 10)" including the therein referenced tool "Tool to calculate the emission factor for an electricity system". Moreover, this verification was performed on the basis of VCS 2007.1, as well as further criteria given to provide for consistent project operations, monitoring, and reporting (VCS program guidelines (2008), ISO 14064-2 and -3).

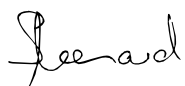
The (desk-)review of the PD, the monitoring report and relevant documents, the additional information gathered during the subsequent on-site audit and the satisfaction of corrective actions and clarification requests has provided SQS with sufficient evidence in order to be able to determine the fulfilment of stated criteria.

In our opinion the project is implemented as planned and described in the registered VCS PD. Installed infrastructure (111 WTGs with 74.9 MW) being essential for generating emission reduction and equipment for metering the data defined in the monitoring plan run reliably and the meters are calibrated appropriately. The monitoring system with its central GHG information system is in place and works correctly. This grouped project generates materially correct, complete and accurate GHG emission reductions according to the approved methodology.

Based on the information received and evaluated, SQS confirms the following statement:

Reporting period	Project emissions (t CO _{2e})	Baseline emissions (t CO _{2e})	Emission reductions (t CO _{2e})
1 Aug 2009 – 31 Dec 2009	0	45,819	45,819
1 Jan 2010 – 30 June 2010	0	50,033	50,033

Verifier Signature



Dr. Silvio Leonardi

Reviewer Signature



Mr. Oliver Stankiewicz

5 Appendix A: Summary of Requests

No.:	CL 1	Reference: 1.10.1
Verifier request:	[16] A.2: The project participants should be described more detailed in accordance to the VCS Monitoring Report Template (contact information, roles, responsibilities)	
Project participant response:	The detailed information of the Project participant in accordance with contact details is now incorporated in the Monitoring report	
Verifier conclusion:	OK	Date: 10.03.2011

No.:	CL 2	Reference: 1.1 + 1.1.1
Verifier request:	Please integrate the role and responsibility of MITCON Consultancy & Engineering Services LTD. Who is responsible for the central GHG information system and controls?	
Project participant response:	The role and responsibility of MITCON Consultancy & Engineering Services LTD & Details of responsibility for central GHG information system and controls is now incorporated in Monitoring Report	
Verifier conclusion:	OK	Date: 10.03.2011

No.:	CL 3	Reference: 1.10.1
Verifier request:	Procedures for handling internal auditing and non-conformities should be described, see also FAR	
Project participant response:	Procedures for handling internal auditing and non-conformities has now incorporated in Monitoring Report.	
Verifier conclusion:	OK	Date: 10.03.2011

No.:	CL 4	Reference: 3.1
Verifier request:	What's the difference table section B and table section B1? Delete 1 of the 2 identical tables.	
Project participant response:	Necessary changes has made in monitoring report	
Verifier conclusion:	OK	Date: 10.03.2011

No.:	CL 5	Reference: 3.2
Verifier request:	1 st verification period is not correct. 2 nd verification period is missing [16] A.1.3	
Project participant response:	Correction in 1 st verification period has made and the details of 2 nd verification period is now incorporated in Monitoring report	
Verifier conclusion:	OK	Date: 10.03.2011

No.:	CL 6	Reference: 3.1
Verifier request:	For unique identification the GPS Coordinates should be more exact (xx°xx'xx"). Why not?	
Project participant response:	It is difficult to get more precise coordinates as the coordinates given in Monitoring report are coordinates were provided to the PPs by the wind turbine	

supplier and the same were used for preparation of the PDD. Hence the DOE is requested to accept the coordinates provided.		
Verifier conclusion:	OK	Date: 13.05.2011

No.:	CL 7	Reference: 1.10.1
Verifier request:	A statement about the conditions of the calibration of the measuring instruments should be made in section D [16].	
Project participant response:	The statement about the conditions of the calibration of the measuring instruments is incorporated in table D.2 in section D and details of metering or measuring instruments is provided in separate Annexure- I of the Monitoring report.	
Verifier request:	The statement in table D.2 is not correct. See 5.10: 30/82 devices were not calibrated within period of one year. Please revise the text. See also CL 14 QA/QC procedures: please delete "The meters used are calibrated periodically by state electricity utility."	
Project participant response:	The statement in table D.2 is revised and corrected. The meters are not calibrated in the requisite period, hence correction factor to electricity export is applied as per CDM EB guideline. Under QA/ QC procedures the statement "The meters used are calibrated periodically by state electricity utility" has been removed.	
Verifier conclusion:	OK	Date: 13.05.2011

No.:	CL 8	Reference: 5.10
Verifier request:	WTG's of different companies are measured with the same main meter and check meter. WTG No. 2 + 3 + 4 +5 + 6 WTG No. 7 + 8 + 10 WTG No. 20 + 21 + 22 WTG No. 26 + 27 + 28 + 29 + 30 + 31 + 32 WTG No. 37 + 38 WTG No. 95 + 98 + 99 + 102 + 103 + 104 Is that the reality? Please verify it.	
Project participant response:	Explained in section C.II	
Verifier conclusion:	OK	Date: 7.1.2011

No.:	CL 9	Reference: 5.10
Verifier request:	Different WTG's have the same Unique ID. WTG No. 48 + 49 + 50 + 51 + 52 + 53 WTG No. 57 + 58 WTG No. 76 + 77 Is that the reality? Please verify it.	
Project participant response:	If the PP have more than one WTG which is connected to same Feeder or substation may be have a unique ID same for two different WTGs. The same case has happened in the above mentioned WTGs.	
Verifier conclusion:	OK	Date: 10.03.2011

No.:	CL 10	Reference: 7.3
Verifier request:	Add "Karnataka"	
Project participant response:	Necessary changes has made in the Monitoring report.	
Verifier conclusion:	OK	Date: 10.03.2011

No.:	CL 11	Reference: 7.4
Verifier request:	Add information for the states Gujarat and Karnataka	
Project participant response:	Necessary changes has made in monitoring report	
Verifier conclusion:	OK	Date: 10.03.2011

No.:	CL 12	Reference:
Verifier request:	History of the document, page 73 [18]. The text is not adapted on the document.	
Project participant response:	The history of the documents is now removed from the document	
Verifier conclusion:	OK	Date: 13.05.2011

No.:	CL 13	Reference: 5.2
Verifier request:	The following credit reports are missing: Table 16 [18], Unique Id No. GP-101: February 2010 to June 2010 Table 83 [18], Unique Id No. 1057: August 2009 to February 2010	
Project participant response:	For Unique Id No. GP-101: Credit report for February 2010 & March 2010 has been now submitted for verification, rest of the credit report i.e. April 2010 to June2010 are not available with PP hence the electricity generation consider as zero for the respective months as a conservative approach. For Unique Id No. 1057: The credit report for the August 2009 to February 2010 are not available with PP hence the electricity generation consider as zero for the respective months as a conservative approach.	
Verifier conclusion:	OK	Date: 13.05.2011

No.:	CL 14	Reference: 5.10
Verifier request:	The following calibration certificates are missing. Sr. No. 2, Unique Id No W-06: 05/11/2009 Sr. No. 18, Unique Id No K-437: 14/09/2009 and 20/08/2010 Sr. No. 41, Unique Id No K-340: 27/05/2008 Sr. No. 43, Unique Id No GP-36: 04/08/2008 The calibration dates does not correspond with annex 1 [18]. Sr. No. 2, Unique Id No W-06: calibration date is 25.11.08 Sr. No. 16, Unique Id No GP101: calibration date is 25.03.2009	

	Sr. No. 18, Unique Id No. K-437: New check meter in August 2009. The corresponded remark in annex I is missing.
Project participant response:	The following calibration certificate has now submitted for verification Sr. No. 2, Unique Id No W-06: 05/11/2009 Sr. No. 18, Unique Id No K-437: 14/09/2009 and 20/08/2010 Sr. No. 41, Unique Id No K-340: 27/05/2008 Sr. No. 43, Unique Id No GP-36: 04/08/2008 (Calibration certificate for Sr. No.43, unique Id No. GP-36 dated 11.03.2008 has provided and the necessary changes has been made in calibration date in Monitoring report) The calibration dates in annex 1 of Monitoring report has checked and corrected for following WTGs Sr. No. 2, Unique Id No W-06 Sr. No. 16, Unique Id No GP101 For Sr, No.18, Unique Id No. K-437: Reference footnote for remark has added in Annex- I of monitoring report and the supportive document i.e. certificate for check meter replacement has submitted for verification
Verifier request:	Sr. No. 43, Unique Id No GP-36: The submitted calibration certificate shows Meter No 04725812 and Meter No 04725820. That's not correspond to the Meter No in Annex I.
Project participant response:	The previously PP has submitted wrong calibration certificate which was for different feeder (Kundalapur), Now the new calibration certificate for Sr. No. 43, Unique Id No GP-36, has been submitted for verification.
Verifier conclusion:	OK
	Date: 17.05.2011

No.:	CAR 1	Reference: 5.8
Verifier request:	Add as an annex an extract of the CEA database (ver. 4) including the calculation of EF	
Project participant response:	CEA database has now provided as a separate annexure with detailed calculation and the same calculation for EF in now incorporated in Section E.1 of Monitoring report	
Verifier request:	The text in annex II is no more information then on page 20. Please explain in annex II the calculation of EF. Which regions are NEWNE?	
Project participant response:	The calculation for Emission Factor with respective regional grid i.e. NEWNE grid and Southern grid based on CEA database version 4.0 has been now incorporated in separate table, The extract of CEA database version 4.0 has now incorporated in Annexure-II of Monitoring report (Previously submitted extract of CEA database was for Version 3 Which was not applicable so the updated version 4.0 has been now incorporated in Annexure-II). In order to facilitate adoption of authentic baseline emissions data and also to ensure uniformity in the calculations of CO2 emission reductions by project developers, Central Electricity Authority (CEA), India, has compiled a database containing the necessary data on CO2 emissions for all grid connected power stations in India. The Indian Electricity grid has divided in to two regional grid based on	

geographic location of the grid as follows:

Geographical Scope of two regional grids:

NEWNE				Southern
Northern	Eastern	Western	North-Eastern	Southern
Chandigarh	Bihar	Chhattisgarh	Arunachal Pradesh	Andhra Pradesh
Delhi	Jharkhand	Gujarat	Assam	Karnataka
Haryana	Orissa	Daman & Diu	Manipur	Kerala
Himachal Pradesh	West Bengal	Dadra & Nagar Haveli	Meghalaya	Tamil Nadu
Jammu & Kashmir	Sikkim	Madhya Pradesh	Mizoram	Pondicherry
Punjab	Andaman-Nicobar	Maharashtra	Nagaland	Lakshadweep
Rajasthan		Goa	Tripura	
Utter Pradesh				
Uttaranchal				

Verifier conclusion:	OK	Date:	13.05.2011
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No.:	CAR 2	Reference:	5.10
Verifier request:	State electricity readings for WTGs 48-53 show summarized results for 4 WTGs only: verify and correct respectively		
Project participant response:	The given credit reports shows the results for all the six WTGs from 48 to 53. But as a typo mistake occurred in the Credit reports at the time of preparation of credit report which shows only 4 WTGs. The statement for the same provided by the PP has been provided for verification.		
Verifier conclusion:		Date:	

No.:	CAR 3	Reference:	5.2
Verifier request:	Table 83, Unique Id No. 1057: The calculated monthly units don't correspond to the exported units. August 2009: 337910 units were already charged in the 2 nd monitoring period. September 2009: 245600 units were exported in August. In September they was 203440 units etc. just to February 2010.		
Project participant response:	For Unique Id No. 1057: The difference between the actual export value with corresponding month was occurred because of the unclear duration of electricity generation mentioned in the credit report, hence the exported units considered for September 2009 has now been considered as export units for August 2009 and same correction has been made for all months i.e. from August 2009 to June 2010. The exported unit has now corrected and updated in the monitoring report and ER reduction calculation sheet for the respective month.		
Verifier request:	The credit report and the invoice for June 2010 (07/06/2010 to 07/07/2010) are missing.		
Project participant response:	The credit report and the invoice for June 2010 (07/06/2010 to 07/07/2010) has been now submitted for verification		
Verifier conclusion:	OK	Date:	17.05.2011

No.:	CAR 4	Reference:	5.2
Verifier request:	Please examine all data in E4, appendix I and 19 with the credit reports, invoices		

	and calibration certificates concerning completeness and correctness. Then you confirm please this examination with an appropriate statement in the section E.4 and D.	
Project participant response:	All data in E.4, Appendix-I and ER calculation sheet has been now checked and corrected, in concern with completeness and correctness of the data provided for verification. For present status of calibration the statement has incorporated in the section E.4 and D of the monitoring report.	
Verifier conclusion:	OK	Date: 13.05.2011

No.:	CAR 5	Reference: 5.10
Verifier request:	In case the calibration certificates of all turbines are not available, then please reduce the electricity export for those where calibration is not present as per CDM EB guidelines.	
Project participant response:	In case where the calibration certificate is not available, for that specific period CDM EB guideline EB 52 Annex 60 has been now applied. The details of calibration has mentioned in separate annexure- I of the monitoring report and same also incorporated in ER calculation sheet	
Verifier request:	The values used to correct electricity export/import due to missing meter calibrations have to be shown in CER-sheets in order to be able to verify correctly.	
Project participant response:	The values as per EB 52 annex 60 (Delay calibration factor) has been now incorporated in the CER sheet.	
Verifier conclusion:	OK	Date: 17.05.2011

No.:	FAR 1	Reference: 2.1
Verifier request:	As an appendix to the monitoring report a management review has to show evidence of the fully functioning GHG information system, i.e. to review the continuing suitability, adequacy and effectiveness of measures related to the assurance of the quality of data. This review shall include a list of related activities.	
Project participant response:	To be concluded at the verification stage.	
Verifier conclusion:	n/a	Date:

No.:	FAR 2	Reference: MR section C.d)
Verifier request:	The EPC Contractor should be exactly descriptive with company name and the three responsible persons for the three different roles.	
Project participant response:	To be concluded at the verification stage.	
Verifier conclusion:	n/a	Date:

6 Appendix B: On-Site Visit Program

The on-site audit and interviews were done according to an agreed audit-plan. It included site visits in

- Sangli, Maharashtra: January 5th 2011; WTGs # W-18, W-19, W-26, W-54 as well as at Mitcon's head office in
- Pune, Maharashtra: January 4th and 7th 2011

7 Appendix C: On-Site Audit Interviews

The following table lists the names, affiliated company, and function/role of the persons interviewed on-site:

Name		Company	Function/Role
Vikas	Burhande	Suzlon	O&M / Sangli site
Shirin	Chandak	Suzlon	O&M / Sangli site
Suhas	Jadhav	Suzlon	O&M / Sangli site
Anant	Ladukar	Mitcon	Project consultant
Vijabhai	Patel	Mitcon	Sr. Consultant
Dipak	Shirsath	Mitcon	Project consultant
Deepak	Zade	Mitcon	Sr. Vice President

8 Appendix D: Documents Reviewed

- [1] The Voluntary Carbon Standard (VCS) 2007.1 (18 November 2008)
- [2] Voluntary Carbon Standard Program Guidelines 2007.1 (18 November 2008)
- [3] ISO 14064-2:2006 – Specification with guidance at project level for quantification, monitoring and reporting of GHG emission reductions or removal enhancements
- [4] ISO 14064-3:2006 – Specification with guidance for the validation and verification of GHG assertions
- [5] ISO 14065-2:2007– Requirements for GHG validation and verification bodies for use in accreditation or other forms of recognition
- [6] GHG Protocol for Project Accounting, 2005, Chapter 7 guidance related to additionality test 1 common practice
- [7] ACM0002, Consolidated baseline methodology for grid-connected electricity generation from renewable sources, version 10
- [8] -
- [9] -
- [10] VCS PD: PROJ_DESC_429_13NOV2009
- [11] Validation Report: VALID_REP_429_17NOV2009
- [12] 1st Monitoring Report: MONIT_REP_429_01APR2006_31DEC2007
- [13] 1st Verification Report: VERIF_REP_429_01APR2006_31DEC2007
- [14] 2nd Monitoring Report: MONIT_REP_429_01JAN2008_31JUL2009
- [15] 2nd Verification Report: VERIF_REP_429_01JAN2008_31JUL2009
- [16] 3rd Monitoring Report: 101214_Bundle III MR
- [17] ER calculation: 101214_Bundle III ER
- [18] 3rd Monitoring Report, version 2: Monitoring report@ 14.02.2011 clean mode
- [19] ER calculation, version 2: MITCON - III Emission Reductions shes (August 2009 - June 2010)@07.02.2011
- [20] 3rd Monitoring Report, version 2.2: Monitoring report@ 16 05 2011.doc
- [21] ER calculation, version 3: MITCON - III Emission Reductions As per EB 52 Annex 60 @16 05 2011.xls
- Plus Set of documents with respect to (for all 72 promoters, 111 WTGs respectively):
 - Monthly credit reports by state electricity authority
 - Monthly invoices by WTG-owner
 - Yearly meter calibrations by state electricity authority

9 Appendix E: Certificates of Competence

Name: Mr Silvio Leonardi

Scopes of expertise:		
1	Energy industries (renewable/non-renewable sources) TA 1.1: Thermal energy generation from fossil fuels as well as thermal energy from solar TA 1.2: Energy generation from renewable energy sources TA 1.3: Other energy industries	X X X ☐
2	Energy distribution TA 2.1: Electricity distribution TA 2.2: Heat distribution	X X X
3	Energy demand TA 3.1 Energy demand	X X
4	Manufacturing industries TA 4.1: Cement sector TA 4.2: Aluminum TA 4.3: Iron and steel TA 4.4: Refinery TA 4.5: Other manufacturing industries	☐ ☐ ☐ ☐ ☐ ☐
5	Chemical industry TA 5.1: Chemical process industries	X X
6	Construction TA 6.1: Construction	☐ ☐
7	Transport TA 7.1: Transport	☐ ☐
8	Mining/mineral production TA 8.1: Mining and mineral processes, excluding those included in TA 8.2 below TA 8.2: Oil and gas industry, coal mine methane recovery and use	☐ ☐ ☐
9	Metal production TA 9.1: Metal production	☐ ☐
10	Fugitive emissions from fuels TA 10.1: Mining and mineral processes, excluding those included in TA 10.2 below TA 10.2: Oil and gas industry, coal mine methane recovery and use	☐ ☐ ☐
11	Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride TA 11.1: Chemical process industries	☐ ☐
12	Solvent use TA 12.1: Chemical process industries	☐ ☐
13	Waste handling and disposal TA 13.1: Waste handling and disposal	X X
14	Afforestation and reforestation TA 14.1: Forestry	X X
15	Agriculture TA 15.1: Agriculture	X X

Name: Mr Rudolf Brodbeck

Scopes of expertise:		
1	Energy industries (renewable/non-renewable sources)	X
	TA 1.1: Thermal energy generation from fossil fuels as well as thermal energy from solar	☐
	TA 1.2: Energy generation from renewable energy sources	X
	TA 1.3: Other energy industries	X
2	Energy distribution	☐
	TA 2.1: Electricity distribution	☐
	TA 2.2: Heat distribution	☐
3	Energy demand	☐
	TA 3: Energy demand	☐
4	Manufacturing	X
	TA 4.1: Cement sector	☐
	TA 4.2: Aluminium	☐
	TA 4.3: Iron and steel	☐
	TA 4.4: Refinery	☐
	TA 4.5: Other manufacturing industries	X
5	Chemical production	X
	TA 5.1: Chemical process industries	X
6	Construction	☐
	TA 6.1: Construction	☐
7	Transport	X
	TA 7.1: Transport	X
8	Mining/mineral production	☐
	TA 8.1: Mining and mineral processes, excluding those included in TA 8.2 below	☐
	TA 8.2: Oil and gas industry, coal mine methane recovery and use	☐
9	Metal production	☐
	TA 9.1: Metal production	☐
10	Fugitive emissions from fuels	☐
	TA 10.1: Mining and mineral processes, excluding those included in TA 10.2 below	☐
	TA 10.2: Oil and gas industry, coal mine methane recovery and use	☐
11	Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride	☐
	TA 11.1: Chemical process industries	☐
12	Solvent use	X
	TA 12.1: Chemical process industries	X
13	Waste handling and disposal	☐
	TA 13.1: Waste handling and disposal	☐
14	Afforestation and reforestation	☐
	TA 14.1: Forestry	☐
15	Agriculture	X
	TA 15.1: Agriculture	X

Name: Mr Oliver Stankiewicz

Scopes of expertise:

1	Energy industries (renewable/non-renewable sources)	X
	TA 1.1: Thermal energy generation from fossil fuels as well as thermal energy from solar	☐
	TA 1.2: Energy generation from renewable energy sources	X
	TA 1.3: Other energy industries	☐
2	Energy distribution	X
	TA 2.1: Electricity distribution	☐
	TA 2.2: Heat distribution	X
3	Energy demand	X
	TA 3.1 Energy demand	X
4	Manufacturing industries	☐
	TA 4.1: Cement sector	☐
	TA 4.2: Aluminium	☐
	TA 4.3: Iron and steel	☐
	TA 4.4: Refinery	☐
	TA 4.5: Other manufacturing industries	☐
5	Chemical industry	☐
	TA 5.1: Chemical process industries	☐
6	Construction	☐
	TA 6.1: Construction	☐
7	Transport	☐
	TA 7.1: Transport	☐
8	Mining/mineral production	☐
	TA 8.1: Mining and mineral processes, excluding those included in TA 8.2 below	☐
	TA 8.2: Oil and gas industry, coal mine methane recovery and use	☐
9	Metal production	☐
	TA 9.1: Metal production	☐
10	Fugitive emissions from fuels	☐
	TA 10.1: Mining and mineral processes, excluding those included in TA 10.2 below	☐
	TA 10.2: Oil and gas industry, coal mine methane recovery and use	☐
11	Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride	☐
	TA 11.1: Chemical process industries	☐
	TA 11.2: GHG capture and destruction	☐
12	Solvents use	☐
	TA 12.1: Chemical process industries	☐
13	Waste handling and disposal	X
	TA 13.1: Waste handling and disposal	X
	TA 13.2: Animal waste management	X
14	Afforestation and reforestation	X
	TA 14.1: Forestry	X
15	Agriculture	X
	TA 15.1: Agriculture	X
	TA 15.2: Animal waste management	☐

10 Appendix F: Abbreviations

CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
FAR	Forward Action Request
GHG	Greenhouse gas(es)
PD	Project Description
SQS	The Swiss Association for Quality and Management Systems
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Voluntary Carbon Standard / Verified Carbon Standard
VCU	Voluntary Carbon Unit
WTG	Wind Turbine Generator