13.75 MW wind power project in Davangere, Karnataka, India

TÜV Rheinland Japan Limited

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Summary:

Sargam Retails Private Limited has commissioned the TÜV Rheinland Japan Ltd. to carry out the verification of the project - "13.75 MW wind power project in Davangere, Karnataka, India", with regard to the relevant requirements of VCS version 3/VCSA Rules.

The project activity involves the installation of 10 numbers of Wind Energy Generators (WEGs) with a total installed capacity of 13.75 MW (5 nos of Suzlon make S 82 WEGs each having generating capacity of 1500 kW & 5 nos of Suzlon make S 64 WEGs each having generating capacity of 1250 kW). The generated electricity by the project activity is supplied to the State Utility KPTCL /W01/ (as per registered PDD) which is a part of Southern grid.

The primary objective of the project activity was to harness the wind energy for generation of renewable electricity and exporting power to the State Utility KPTCL, thereby displacing electricity of the Southern electricity grid of India that would have been generated predominantly from fossil fuel based power generation.

A rule based approach has been followed to perform this limited validation covering the clauses 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4 and 1.13 of the VCS PD.

As a result of the validation of the VCS PD, the validation team confirm that: the project follows the VCS version 3.

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1 INTRODUCTION

1.1 Objective

The objective of the validation is to assess whether the VCS PD follows the VCS Version 3 standard particularly the clauses 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4 and 1.13 of the VCS PD.

This supplementary validation report is only valid in conjunction with the CDM registered documents for the project “13.75 MW wind power project in Davangere, Karnataka, India", reference No. 3700.

1.2 Scope and Criteria

The scope of the validation covers the clauses of 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4 and 1.13 of the VCS PD as required by the Policy Announcement from VCS Association on 08/03/2011.

1.3 VCS Project description

A brief description of the VCS project has been described in the CDM PDD /D02/ of the project registered as CDM project activity with the CDM EB, reference No 3700.

http://cdm.unfccc.int/UserManagement/FileStorage/HF3XRWIA1N6PTUG0C2VE5SO49MZDKL

1.4 Assessment of VCS–PD

Clause number	Requirement	Finding / Conclusion
1.2	Sectoral Scope and Project Type	The validation team has checked the sectoral scope and the project type applicable to the project activity with “APPENDIX B” of the Simplified modalities and procedures for small-scale clean development mechanism project activities and found correct.
1.3	Project Proponent	The project proponent (PP) for this project activity is Sargam Retails Private Limited. The Validation team has cross-checked the Project Participant name with the registered CDM-PDD /D02/ and found correct.
1.5	Project Start Date	The validation team has checked the commissioning date of all the WEGs of the project activity with the commissioning certificate /D05/ and found correct. For this project activity the WEGs having location no. (K-538, K-539, K-541, K-542, K-543, K-544, K-549, K-550, K-551) were commissioned and commercially connected to grid on 31/03/2009 /D05/ and hence it is evidence that

		the identified WEGs had start exporting electricity to the grid 31/03/2009 onward. Hence the choice of PP to take start date as 31/03/2009 is correct.
1.6	Project Crediting Period	As 31/03/2009 is the date first monitoring period commences and also as the project registered under the CDM on 07/01/2011 /W04/, so the selection of project crediting period "31/03/2009 to 06/01/2011" is convincing.
1.7	Project Scale and Estimated GHG Emission Reductions or Removals	As the estimated average annual GHG emission reductions for the project 52,258 tCO_2e per year is less than 1,000,000 tCO_2e per year, so the project activity comes under category "**Projects**". The estimated emission reduction for the project activity has been checked with the registered PDD /D02/ and found correct.
1.9	Project Location	The project location provided in the VCS-PD /D01/ is checked with the registered CDM-PDD /D02/ and found correct. The same was also verified during on site visit.
1.10	Conditions Prior to Project Initiation	The project is a Greenfield project as verified from the commissioning certificate /D05/. Prior to installation of the project the equivalent amount of electricity was supplied by the Southern grid, which is dominated by fossil fuel based power plant.
1.12.1	Proof of Title	As per the VCS program updates dated 08/03/2010 the definition of "Proof of Title" and requirements with respect to evidencing proof of "Right of use" the validated documents of Proof of Title i.e. PPA /D06/ and HCA /D04/, is matching with the evidencing proof for Right of Use "a right of use arising or granted under statute, regulation or decree by a competent authority" i.e. the right of PP to use the ERs arises due to this project activity provided by KPTCL through PPA /D06/. Hence, it fulfils the definition of Right of Use.
1.12.2	Emissions Trading Programs and Other Binding Limits	An undertaking /D09/ was given by the PP which confirms that net GHG emission reductions or removals generated by the project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions
1.12.3	Participation under Other GHG Programs	The project is registered CDM project activity with UNFCCC (Ref Number 3700) on 07/01/2011 /W04/. The details of the project can be viewed on following link

		http://cdm.unfccc.int/Projects/DB/SGS-UKL1273659698.37/view
1.12.4	Other Forms of Environmental Credit	The project is registered under CDM EB, UNFCCC reference no. 3700 and has not applied for any other form of environmental credit.
1.13	Additional Information Relevant to the Project	
	• Eligibility Criteria	Not applicable, as the project activity is not a grouped project.
	• Leakage Management	Not applicable. The project is a green field project and the energy generation equipment is not transferred form another activity. Hence leakage is not applicable according to the applied Methodology /D10/.
	• Commercially Sensitive Information	Not applicable, as no commercially sensitive information / document is excluded from the public version
	• Further Information	Not applicable, as no other information that may have a bearing on the eligibility of the project and GHG emission reductions were found.

2 VALIDATION CONCLUSION

The Project activity meets the criteria of the clauses 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4 and 1.13 of the VCS PD as per VCS Version 3 and is likely to achieve the estimated emission reductions.

Annexure 1:

Documents referred during the course of validation:

Reference	Documents
/D01/	Project Document as per VCS version 3 standard.
/D02/	Registered CDM-PDD for the project reference number 3700.
/D03/	Registered CDM-Validation report for the project reference number 3700.
/D04/	Letter of Approval from the host country (India).
/D05/	Commissioning certificates.
/D06	Power Purchase Agreement between PP and KPTCL.
/D07/	Credit Report Sheets (As per KPTCL/BESCOM Form B).
/D08/	Daily generation report by Suzlon.
/D09/	Undertaking by the PP which confirming net GHG emission reductions by the project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions.
/D10/	Approved CDM Methodology AMS-I.D. version 15: “Grid connected renewable electricity generation”.
/D11/	Simplified modalities and procedures for small-scale clean development mechanism project activities.

Websites used:

Reference	Link	Organisation
/W01/	http://www.kptcl.com/	Karnataka Power Transmission Corporation Limited
/W02/	http://www.cea.nic.in/	Central Electricity Authority
/W03/	http://unfccc.cdm.int	United Nations Framework Convention on Climate Change
/W04/	http://cdm.unfccc.int/Projects/DB/SGS-UKL1273659698.37/view	UNFCCC Project Page
/W05/	www.v-c-s.org	Voluntary Carbon Standard

Interviewed Persons:

Reference	Date	Name	Organisation / Function
/I01/	18/04/2011	Mr. Himakara K Shivapoojary	Assistant Manager **Suzlon Energy Limited**
/I02/	18/04/2011	Mr. Manjunath k. V.	Engineer (H.T.) **Suzlon Energy Limited**
/I03/	18/04/2011	Mr. Manoj Kumar B.	Energy Operation **Suzlon Energy Limited**
/I04/	18/04/2011 and 19/04/2011	Mr. K. Rajanikant	ERNST & YOUNG

Annexure 2:

Abbreviations:

CDM	Clean Development Mechanism
CEA	Central Electricity Authority
CO2	Carbon dioxide
CO2e	Carbon dioxide equivalent
EB	Executive Board
ER	Emission Reduction
GHG	Greenhouse gas(es)
KPTCL	Karnataka Power Transmission Corporation Limited
SRPL	Sargam Retails Private Limited
PD	Project Design
PDD	Project Design Document
PP	Project Participant
PPA	Power Purchase Agreement
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Verified Carbon Standard
VCSA	Voluntary Carbon Standard Association
VCU	Voluntary Carbon Unit
VER	Voluntary Emission Reduction
WEG	Wind Energy Generator