VALIDATION REPORT

WIND ENERGY PROJECT IN GUJARAT BY ENN ENN CORP LIMITED.

Report No: CCMS/000067
Report Version No: 02

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0.1 ABBREVIATIONS

ABT	Availability Based Tariff
BM	Build Margin
BSE	Bombay Stock Exchange
CAPM	Capital Asset Pricing Model
CAR	Corrective action request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CEA	Central Electricity Authority
CER	Certified emission reduction
CL	Clarification request
CM	Combined Margin
CMP	Conference of Parties serving as the Meeting of Parties
CP	Conference of Parties
DNA	Designated national authority
DOE	Designated operational entity
EB	Executive Board
EECL	Enn Enn Corp Limited
EIA	Environmental Impact Assessment
FAR	Forward action request
GEDA	Gujarat Energy Development Agency
GERC	Gujarat Electricity Regulatory Commission
GHG	Greenhouse gas(es)
GUVNL	Gujarat Urja Vikas Nigam Limited
HCA	Host Country Approval
IREDA	Indian Renewable Energy Development Agency
INR	Indian Rupee
IPCC	Intergovernmental Panel on Climate Change
IRR	Internal Rate of Return
ISHC	International Stakeholder Consultation
LoA	Letter of Approval
MoC	Modalities of Communication
MoEF	Ministry of Environment & Forests
MP	Monitoring Plan
NCDMA	National CDM Authority
NEWNE	The Integrated Northern, Eastern, Western, and North-Eastern regional grids
NGO	Non Governmental Organization
O&M	Operations & Maintenance
OM	Operating Margin
PDD	Project Design Document
PLF	Plant Load Factor
PP	Project Participant
PPA	Power Purchase Agreement
RBI	Reserve Bank of India
SEA	State Energy Account
UNFCCC	United Nations Framework Convention on Climate Change
VVM	Validation and Verification Manual
WTG	Wind Turbine Generator

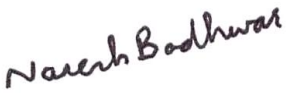
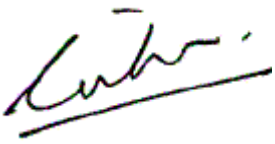
0.2 EXECUTIVE SUMMARY AND CONCLUSION

Project Title:			**Country:**	**Annual Estimated CERs:**
Wind Energy Project in Gujarat by Enn Enn Corp Limited.			India	21085 t CO_2e
Client Name:			**Client Contact:**	
Enn Enn Corp Limited			Mr. Abhishek N. Shah	
URS Project Report No.:			**Version:**	
CCMS/000067			02	
Date of this Report:			**Date of Approval:**	
03/12/2012			05/12/2012	
Methodology:				
Number:	**Version:**	**Scale:**	**SS(s) and TA:**	**Validation Opinion**
AMS I. D.	17 dated 03/06/2011	Small Scale	SS1, TA1.2	Positive.

Enn Enn Corp Limited has commissioned URS to perform the validation of the project' Wind Energy Project in Gujarat by Enn Enn Corp Limited' in India.

The scope of the validation is defined as an independent and objective review of the project design document, the project's baseline study, monitoring plan and other relevant documents. The information in these documents is reviewed against CDM Validation and Verification Manual (Version 01.2), Kyoto Protocol requirements, CDM Executive Board/ UNFCCC rules.

URS is of the opinion that the project activity "Wind Energy Project in Gujarat by Enn Enn Corp Limited.", in "India" as per PDD version 10 dated 01/12/2012/ meets all relevant requirements for CDM activities and all relevant host Party criteria and correctly applies the baseline and monitoring methodology. Therefore, it is requested that the project may be registered as CDM Project Activity

Work carried out by: (Team Composition)	**Name**	**Role**
	Rakesh Chouhan Manoj K. Srivastava Rajeev Singhal	Lead Assessor & Technical Area Expert (TA 1.2) Assessor Financial Expert
Independent Technical Review by: (Internal Quality Control)		
	Naresh Badhwar	04/12/2012
Final Report Verified by: (Scheme Manager)		
	Mukesh Singhal	05/12/2012

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1. INTRODUCTION

URS Verification Private Limited has been commissioned by Enn Enn Corp Limited., Kadampali Society, Opp. Jeevan Bharti School, Nanpura, Abhishek House, Surat, Gujarat to carry out CDM validation of the project entitled “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” in the India.

This report summarizes the finding of validation including opinion on outcome of validation of the project “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” performed on the basis of criteria as laid down by UNFCCC for CDM as well as criteria given to provide for consistent project operations, monitoring and reporting.

1.1 Objective

The objective of validation is to have an independent assessment and evaluation of project design by third party. This includes assessment and evaluation of project baseline, monitoring plan and project’s compliance with relevant UNFCCC and host party applicable criteria are validated in order to confirm that project design, as documented, is sound and reasonable and meets the applicable identified criteria. Validation is requirement for all CDM projects and seen as necessary to provide assurance to stakeholders about the quality of project and its intended generation of certified emission reductions (CERs).

1.2 Scope

The validation scope is to have an independent and objective review of the project design document against the criteria as stated in article 12 of Kyoto Protocol, the CDM modalities and procedures as agreed in Marrakech accord, Validation and Verification Mannual version 1.2 (VVM), the simplified modalities and procedure for small scale CDM project activities and relevant decision by CDM EB including the baseline monitoring methodology AMS I. D. version 17.

Validation is not meant to provide any consultancy towards project participants. However, request for clarifications and/or corrective actions may have provided input for improvement of the project design.

1.3 Project Description

The proposed 12.6 MW CDM project activity is a Green Field wind power project activity comprising of 6 Suzlon Make (S-88) 2.1 MW WTGs. The location of the project activity is as below:

1. 2 WTGs of 2.1 MW each in the village of Dahisara, Jasdan
2. 1 WTG of 2.1 MW in the village of Barvada, Jasdan
3. 1 WTG of 2.1 MW in the village of Khadvavdi, Jasdan and
4. 2 WTGs of 2.1 MW each in the village of Pipaliya dhoro, Chotila.

The wind power project activity is renewable energy based power project. The electricity generated by the project activity is supplied to the NEWNE Grid (northern Grid) of India. Thus the project aims at reducing GHG emissions by replacing the same amount of electricity from the NEWNE grid which would otherwise be generated by a fossil fuel based power plant.

1.4 Validation Team

The validation team consists of following personnel:

Name of Validation Team Members	Role
Rakesh Chouhan	Lead Assessor and Technical Area Expert (TA 1.2)
Manoj K. Srivastava	Assessor
Rajeev Singhal	Financial expert

2. METHODOLOGY

The validation was conducted using URS procedures in line with requirements as specified in CDM M&P, applicable version 1.2 of VVM and relevant decision of COP/MOP and the CDM EB by applying standard auditing techniques:

The validation consists of following three phases:
a) Desk review of project design including baseline and monitoring plan.
b) Follow up interviews with project stakeholder(s).
c) The resolution of outstanding issues and the issuance of the final validation report and opinion on validation.

In order to ensure transparency and consistency a validation protocol was customized for the project according to latest version 1.2 of VVM. The protocol shows in transparent manner the criteria/requirements, means of verification and the results from validating the identified criteria.

The validation protocol serves the following purposes:

a) Organizes the details and clarifies the requirements which are expected to be met by CDM project.
b) Ensures a transparent validation process where validator will document how a particular requirement has been validated and result of validation

Following sections outlines each step in more details:

2.1 Document Review

Project Design Document (PDD) version 01 dated 05/12/2011 and the subsequent version 2 dated 21/05/2012, version 03 dated 18/06/2012, version 04 dated 14/07/2012, version 05 dated 21/07/2012, version 06 dated 17/08/2012, version 07 dated 28/08/2012, version 08 dated 14/09/2012 and version 09 dated 03/11/2012 and version 10 dated 01/12/2012 (final version) have been reviewed. The document review in particular includes applicability of selected methodology, the baseline determination, the additionality of project activity, the monitoring plan, the emission reduction calculations provided in the form of excel spread sheet, etc;

The following documents were assessed or referenced as part of validation:

/01/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” in India, version 01 of 05/12/2011.
/02/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” in India, version 02 of 21/05/2012.
/03/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” in India, version 03 of 18/06/2012.
/04/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” in India, version 04 of 14/07/2012.
/05/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” in India, version 05 of 21/07/2012.
/06/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” version 06 of 17/08/2012.
/07/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” version 07 of 28/08/2012.
/08/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp

	Limited." Version 08 of 14/09/2012
/09/	Enn Enn Corp Limited; IRR calculation spreadsheet of the project activity "Wind Energy Project in Gujarat by Enn Enn Corp Limited", dated 18/10/2012.
/10/	Ministry of Environmnet & Forests, Government of India, DNA; Host country approval letter no 4/6/2012-CCC dated 14/09/2012 and Revised I dated 30/10/2012
/11/	Enn Enn Corp Limited; Modalities of Communication provided by Enn Enn Corp Limited dated of 13/07/2012
/12/	CDM Executive Board; Clean Development Mechanism Validation and Verification Manual, Version 1.2 dated 30/07/2010, Annex 1 of EB 55.
/14/	CDM Executive Board; Simplified baseline and monitoring methodology "AMS-I.D", "Grid connected renewable electricity generation", Version 17 of 03/06/2011,
/15/	CDM Executive Board; Tool for the demonstration and assessment of additionality, version 06.1.0, Annex 20 of EB 69.
/16/	CDM Executive Board; CDM Executive Board; "Tool to calculate the emission factor for an electricity system" version 02.2.1, Annex 19 of EB 63 dated 29/09/2011.
/17/	CDM Executive Board; "General guidelines to SSC CDM methodologies", version 17, Annex 21 of EB 61 dated 03/06/2011.
/18/	Directorate of Service Tax, Government of India; The service Composition Scheme for Payment of Services Act http://www.servicetax.gov.in/st-profiles/works-contract.pdf
/19/	Enn Enn Corp Limited; Power Purchase Agreement with GUVNL for the two WTGs at Dahisara, Rajkot dated 28/09/2011
/20/	Enn Enn Corp Limited; Power Purchase Agreement with GUVNL for the two WTGs at Pipaliya dhoro, Surendranagar and one WTG at Khadvavdi, Rajkot dated 28/09/2011
/21/	Enn Enn Corp Limited; Power Purchase Agreement with GUVNL for the one WTG at Barvada, Rajkot dated 29/03/2012
/22/	Gujarat Energy Development Agency (GEDA); Commission certificate for the two WTGs at Pipaliya dhoro, Surendranagar and one WTG at Khadvavdi, Rajkot dated 08/12/2011
/23/	Gujarat Energy Development Agency (GEDA); Commission certificate for two WTGs at Dahisara, Rajkot dated 19/10/2011
/24/	Gujarat Energy Development Agency (GEDA); Commission certificate for the one WTG at Barvada, Rajkot dated 17/04/2012
/25/	Enn Enn Corp Limited; Purchase order issued to Suzlon Energy Limited for 6 Nos. Of S-88 2100 kW WTGs dated 20/04/2011
/26/	Enn Enn Corp Limited; Purchase order issued to Suzlon Towers & Structures Limited for 6 Nos. Of Tubular Tower dated 20/04/2011
/27/	Enn Enn Corp Limited; Purchase order issued to Suzlon Gujarat Wind Park Ltd. for acquiring freehold/ lease/ sub lease rights of land and rights of suitable access of surroundings for 6 Nos. Of WTGs dated 20/04/2011
/28/	Enn Enn Corp Limited; Copy 'Sub Lease – DEED' made with Suzlon Gujarat Wind Park Ltd. for the development of wind farm for installation of the WTGs dated 08/11/2011

/29/	Enn Enn Corp Limited; Purchase order issued to Suzlon Infrastructure Services Limited for civil work for WTG including foundation and other civil work allied to installation of WTGs dated 20/04/2011
/30/	Enn Enn Corp Limited; Purchase order issued to Suzlon Infrastructure Services Limited for 6 Nos. Of Distribution transformers dated 20/04/2011
/31/	Enn Enn Corp Limited; Purchase order issued to Suzlon Infrastructure Services Limited for for erection, installation and commissioning of the 6 nos. of Wind Turbine Generator (WTG)
/32/	Enn Enn Corp Limited; Purchase order issued to Suzlon Infrastructure Services Limited for electrical works including supply and installation of DP yard and electrical lines dated 20/04/2011
/33/	CDM Executive Board; "Guidelines on the demonstration and assessment of prior consideration of CDM, version 4, Annex 13 of EB 62 dated 15/07/2011.
/34/	Enn Enn Corp Limited; Purchase order issued to Suzlon Energy Ltd. for Rotor Blades dated 20/04/2011
/35/	Enn Enn Corp Limited; Purchase order issued to Suzlon Power Infrastructure Ltd. For contribution towards for power evacuation infrastructure dated 20/04/2011
/36/	Enn Enn Corp Limited; Undertaking confirming that the project activity has not used any public funding dated 18/05/2011
/37/	Central electricity Authority, Government of India; CEA database version 7 (Ministry of Power, Government of India) http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm
/38/	Suzlon Towers & Structures Limited; Offer Letter No. STSL/2011-2012/ 5008008 issued by Suzlon Towers & Structures Limited dated 11/04/2011 for the supply of the tubular tower component of the WTGs
/39/	Suzlon Gujarat Wind Park Limited; Offer Letter No. SGWPL/2011-2012/ 5008013 issued by Suzlon Gujarat Wind Park Limited dated 11/04/2011for sale / grant of free hold / lease/ sub lease rights of land and rights of suitable access of surroundings for the WTGs
/40/	Suzlon Infrastructure Services Limited;Offer Letter No. SISL/2011-2012/ 5008011 issued by Suzlon Infrastructure Services Limited dated 11/04/2011for civil work including the foundation & other civil work allied in respect of installation of the WTGs
/41/	Suzlon Infrastructure Services Limited;Offer Letter No. SISL/2011-2012/ 5008009 issued by Suzlon Infrastructure Services Limited dated 11/04/2011offer for supply transformers, component of renewable energy / device/ wind turbine generators
/42/	Suzlon Power Infrastructure Limited;Offer Letter No. SPIL/2011-2012/ 5008007 issued by Suzlon Power Infrastructure Ltd. Dated 11/04/2011 for the installation of power evacuation infrastructures
/43/	Suzlon Infrastructure Services Limited;Offer Letter No. SISL/2011-2012/ 5008010 issued by Suzlon Infrastructures Services Limited dated 11/04/2011 for erection, installation and commissioning of the WTGs
/44/	Suzlon Infrastructure Services Limited;Offer Letter No. SISL/2011-2012/ 5008012 issued by Suzlon Infrastructures Services Limited dated 11/04/2011for electrical works including supply and installation of DP Yard and electrical line items
/45/	Suzlon Infrastructure Services Limited;Offer letter no. SISL/2011-2012/ 5008014 issued by issued by Suzlon Infrastructures Services Limited dated 11/04/2011 for the operation and maintenance of the WTGs from 2nd year to 5 year operation of the WTGs
/46/	Gujarat Electricity Regulatory Commission; GERC Tariff Order dated 30/01/2010

	http://www.gercin.org/renewablepdf/en_1303211765.pdf
/47/	Enn Enn Corp Limited; Letter sent to Gujarat Energy Development Agency by the PP regarding the intention to implement the wind power project activity in the state of Gujarat dated 10/11/2011
/48/	Vijayant Consultants, Management & project Consultants; Copy of the PLF report determined by the third party 'Vijayant Consultants, Management & project Consultants contracted by the PP dated April, 2011
/49/	IREDA; IREDA financing Guidelines for wind energy projects (w.e.f. 25/05/2009). http://www.windpowerindia.com/index.php?option=com_content&view=article&id=11&Itemid=16
/50/	Ministry of Environment & Forest's Notification S. O 1533 dated 14th September, 2006 http://envfor.nic.in/legis/eia/so1533.pdf
/51/	Ministry of Environment and Forests (MoEF), Government of India notification dated December,1, 2009 http://moef.nic.in/downloads/rules-and-regulations/3067.pdf
/52/	Enn Enn Corp Limited; Local newspaper advertisement to invite the local stakeholders for the stake holder meeting for the project activity dated 19/10/2011
/53/	Enn Enn Corp Limited; Copy of the invitation letter for the local stakeholder consultation meeting dated 14/10/2011
/54/	Enn Enn Corp Limited; Minutes of Stakeholder meeting held at Rajpara substation, Surendranagar dated 24/10/2011
/55/	Enn Enn Corp Limited; Attendance sheet of the local stakeholders for the meeting held at Rajpara substation, Surendranagar dated 24/10/2011
/56/	CDM Executive Board; "Simplified modalities and procedures for small-scale clean development mechanism project activities" Annex II of Report of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol dated 30/03/2006
/57/	Enn Enn Corp Limited; Email sent to National CDM DNA for prior consideration of CDM for the project activity dated 11/10/2011
/58/	Enn Enn Corp Limited; E-mail sent to UNFCCC for securing CDM status by the PP dated 05/10/2011
/59/	Suzlon Energy Limited; Technical specifications of the WTG (model no. S- 88 2.1 MW) provided by Suzlon Energy Limited dated 03/10/2008
/60/	Tariff Advisory Committee; General Rules and Regulation, tariff advisory committee, Mumbai dated 31/03/2001 http://iib.gov.in/IRDA/tac/tariffs/AIFT2001.pdf
/61/	CDM Executive Board; Glossary of CDM Terms, Version 06.0 Annex 63 of EB 66 dated 02/03/2012
/62/	CDM Executive Board; Non-binding best practice examples to demonstrate additionality for SSC project activities, EB35, Annex 34
/63/	CDM Executive Board; Guidelines for objective demonstration and assessment of barriers, EB 50, Annex 13
/64/	CDM Executive Board; Guidelines on the assessment of investment analysis, EB62, Annex 5
/65/	Enn Enn Corp Limited; Copies of the extracts from board meeting of the company, Enn Enn Corp Limited dated 18/04/2011 (Investment Decision)

/66/	India Renewable Energy Development Agency (IREDA); Combined Summary of CERC & SERCs regulations / Tariff Orders of States procurement of power from Wind Electric Generators http://www.cwet.tn.nic.in/Docu/Tariff_SERC_23_08_2010.pdf
/67/	Ministry of Finance, Government of India, Income Tax Act 1961, http://law.incometaxindia.gov.in/DIT/Income-tax-acts.
/68/	CDM Executive Board; Guidelines on the demonstration of additionality of small scale project activities, version 9.0, Annex 27 of EB 68 dated 20/07/2012.
/69/	Reserve Bank of India, Government of India; Term lending rate of Reserve Bank of India http://www.rbi.org.in/scripts/WSSView.aspx?Id=15862
/70/	Enn Enn Corp Limited; F-CDM Prior Consideration Form dated 04/10/2011
/71/	Gujarat Energy Transmission Corporation Limited; Revised Estimate for erection of 66 KV transmission network for evacuation to Suzlon Power Infrastructure Pvt Ltddated 16/11/2010.
/72/	Reserve Bank of India, Government of India; Survey of Professional Forecasters : Results of the Fourteenth Round (Q3:2010-11), Reserve bank of India dated 02/02/2011 http://rbi.org.in/scripts/PublicationsView.aspx?id=13050
/73/	CDM Executive Board: CDM-SSC-PDD form version 03 dated 22/12/2006
/74/	CDM Executive Board; Guidelines for completing the simplified Project Design Document (CDM-SSC-PDD) and the form for proposed new small scale methodologies (CDM-SSC-PDD) (version 07), dated 02/08/2008, Annex 12 of EB 41.
/75/	CDM Executive Board; “Guidelines for the reporting and validation of plant load factors” version 01 annex 11 of EB 48 dated 17/07/ 2009.
/76/	Damodaran, Aswath; Corporate Finance, Theory and Practice (2nd Edition, 2009) by, John Wiley & Sons Ltd, UK (Authorized Reprint by Wiley India (P) Ltd).
/77/	Karvy Stock Broking Limited; Fuel Security is the theme, http://breport.myiris.com/ksbl/NATTHEPC_20110701.pdf.
/78/	Central Electricity Regulatory Commission: Tariff order, dated 26/04/2010
/79/	K. Kiran & Co; CA certificate for actual project cost dated 03/11/2012.
/80/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” In India, version 09 of 03/11/2012.
/81/	Enn Enn Corp Limited; PDD for project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.” In India, version 10 of 01/12/2012.
/82/	Yahoo Finance: for data of companies for calculating beta and BSE sensex (www.bseindia.com) http://finance.yahoo.com/q/hp?a=03&b=1&c=2006&d=02&e=31&f=2011&g=m&s=CESC.BO%2C+&ql=1 http://finance.yahoo.com/q/hp?a=03&b=1&c=2006&d=02&e=31&f=2011&g=m&s=NTPC.BO%2C+&ql=1 http://finance.yahoo.com/q/hp?a=03&b=1&c=2006&d=02&e=31&f=2011&g=m&s=RELINFRA.BO%2C+&ql=1 http://finance.yahoo.com/q/hp?a=03&b=1&c=2006&d=02&e=31&f=2011&g=m&s=TATAPOWER.BO%2C+&ql=1 http://finance.yahoo.com/q/hp?a=03&b=1&c=2006&d=02&e=31&f=2011&g=m&s=JPPOWER.BO%2C+&ql=1 http://finance.yahoo.com/q/hp?a=03&b=1&c=2006&d=02&e=31&f=2011&g=m&s=NEYVELILIG.BO%2C+&ql=1 http://finance.yahoo.com/q/hp?a=03&b=1&c=2006&d=02&e=31&f=2011&g=m&s=GIPCL.BO%2C+&ql=1
/83/	Moneycontrol.com; Website for accessing data of companies for converting equity beta to asset

	beta http://www.moneycontrol.com/financials/ntpc/balance-sheet/NTP#NTP http://www.moneycontrol.com/financials/relianceinfrastructure/balance-sheet/RI38#RI38 http://www.moneycontrol.com/financials/tatapowercompany/balance-sheet/TPC#TPC http://www.moneycontrol.com/financials/jaiprakashpowerventures/balance-sheet/JHP01#JHP01 http://www.moneycontrol.com/financials/neyvelilignitecorporation/balance-sheet/NLC#NLC http://www.moneycontrol.com/financials/gujaratindustriespowerco/balance-sheet/GIP#GIP
/84/	Reserve Bank of India, Government of India, Yield to Maturity of Central Government Securities http://rbidocs.rbi.org.in/rdocs/Bulletin/PDFs/26CT_CTSM0311.pdf
/85/	Suzlon Energy Limited; Offer Letter No. SEL/2011-2012/5008006 issued by Suzlon Energy Limited dated 11/04/2011 for the supply of 2.1 MW Wind Turbine Generators
/86/	State Bank of India, Loan sanction letter dated 21/09/2011
/87/	Enn Enn Corp Limited; Email dated 11/10/2011 sent to DNA to India regarding prior consideration of CDM
/88/	Enn Enn Corp Limited; Email sent to UNFCCC dated 05/10/2011 sent to UNFCCC regarding prior consideration of CDM
/89/	Ministry of Finance, Government of India; Income Tax Rules, 1962
/90/	Suzlon Energy Limited: Letter regarding geo coordinates dated 20/08/2012.

2.2 Follow-up Actions

On 27/04/2012, Rakesh Chouhan, Lead Assessor and Technical Expert (TA 1.2) and Manoj Srivastava, Assessor visited the project site at Rajkot and Surendranagar district in the state of Gujarat to resolve question and issues identified during offsite review of documents and performed interviews with relevant local stakeholders..

The personnel met during visit are summarized in the table below:

	Date	Name and Role	Organization	Topic
/a/	27/04/2012	Praveen Chandra, Partner	Prozeal Consulting	Project Implementation, Baseline Scenario, Additionality, Monitoring Plan, Environmental Impacts, Local Stakeholder Consultation Process
/b/	27/04/2012	Nilesh Gajera, Operation, Engineer	Suzlon Energy Ltd.	Monitoring Plan and Monitoring System, Quality Assurance/Quality Control
/c/	27/04/2012	Hari Krishnan, Assistant Manager	Suzlon Energy Ltd.	Monitoring Plan and Monitoring System, Quality Assurance/Quality Control
/d/	27/04/2012	Rambhai Local stakeholder	Villager	Project Impact on local surrounding, Local Stakeholder
/e/	27/04/2012	Uday Dodia, Local stakeholder	Villager	Projectl Impact on local surrounding, Local Stakeholder consultation
/f/	27/04/2012	Paras Sendhav local stakeholder.	Villager	Local Stakeholder Consultation

The validation team performed on-site interviews with the relevant stakeholders and cross-checked information provided by interviewed personnel to ensure that no relevant information has been omitted from the validation.

2.3 Resolution of Outstanding Issues

The objective of this phase of validation is to resolve any outstanding issues which needed to be corrected and clarified to URS for URS's conclusion on project design. As an outcome of the validation process, the team can raise different types of findings as indicated below:

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

a) The project participants have made mistakes that will influence the ability of the project activity to achieve real measurable and additional emission reductions.
b) The applicable CDM requirements have not been met.
c) There is a risk that the emission reductions cannot be monitored or calculated.

A Clarification Request (CL) is raised if information is insufficient or not clear enough to determine whether applicable CDM requirement has been met.

A Forward Action Request (FAR) is raised to highlight issues related to project implementation that requires review during first verification of the project activity. FAR shall not relate to CDM requirement for registration. CAR/CL/FAR identified are included in the validation protocol as Appendix-1 to this report.

This validation protocol consists of tables; the different columns in these tables are described as in below tables:

Description of Validation Protocol tables:

Table 1 –Validation Requirements for Clean Development Mechanism (CDM) Project Activities (CDM VVS - Section E to J, and relevant paragraphs of CDM PCP):

Requirements	Ref.	Validation Assessment	Conclusion
The Requirement checklist in table 1 are based on section E to J of CDM VVS and relevant paragraph of CDM PCP and is linked to the requirements the CDM project is expected to meet.	Refers to the documents where the answer to the Requirements checklist is found	The discussion on how the conclusion was arrived at and conclusion on compliance with Requirements	This is either acceptable based on evidence provided (ok), or Corrective Action Request (CAR) if requirement is not met. A clarification request is used when the validation team has identified need for further clarification.

Table 2 –Validation Requirements for Clean Development Mechanism (CDM) Project Activities (Section K to N (and section VIII) of CDM VVS and relevant paragraphs of CDM PS):

Checklist Questions	**Ref.**	**MoV**	**Validation Assessment**	**Conclusion Draft Final**

The Requirement checklist in table 2 are based on section K to N including section VIII of CDM VVS and relevant paragraph of CDM PS and is linked to the requirements the CDM project is expected to meet.	Refers to the documents where the answer to the Requirements checklist is found	Explain how conformance with Requirement is investigated. Examples are document review (DR), interview or follow up actions, cross checking with publicly available or other authentic document.	The discussion on how the conclusion was arrived at and conclusion on compliance with Requirements	For CAR, CL, FAR see definitions above. In the event of adequate information/evidence Ok is used to demonstrated compliance with CDM Requirements.

Table 3 - Resolution of Corrective Action Requests and Clarification:

Summary of Findings	**CAR**	**CL**	**FAR**
	Total Number of CARs	Total Number of CLs	Total Number of FARs

Date:	**DD/MM/YYYY**	**Raised by:**		Name of the assessment team member	
Type of Finding	**CAR/ CL OR FAR**	**S. No. of Finding**	----	REFERENCE	Reference of finding for example- page no of PDD.

Details of the Finding:	DD/MM/YYYY
Findings for not meeting the Requirements/Checklist questions as per table 1 or 2 as applicable.	
Project Participant Response	DD/MM/YYYY
(Response provided by the PP)	
Documents/ information provided by the Project Participant:	
(Evidences/ documents provided by Project participant)	
Reasoning for acceptance or non-acceptance:	DD/MM/YYYY
(Reasoning provided by Lead Assessor/ Assessor for acceptance or non-acceptance of the response provided by the project participant.	
Close out by Lead Assessor	DD/MM/YYYY

Table 4 - Forward Action Requests (if no FAR the table 4 is deleted):

Forward Action Request	Reference to table 2	Response by project participants and validation opinion
The FAR is raised in table 2 is repeated here	Reference to checklist question	Response by project participant on how FAR will be addressed and opinion of validation team.

2.4 Internal Quality Control

The validation report and its respective versions are underwent an Internal Quality Control through an Independent Technical Review (ITR).

ITR is an independent process performed to examine that the process of validation has been carried out in conformance with the requirements of validation scheme as well as URS validation procedures and the conclusion is justified. The technical review is performed by designated competent person, Independent Technical Reviewer, in accordance with URS qualification scheme for CDM validation and verification.

Technical Review Team

Name	Role
Naresh Badhwar	Technical Reviewer and Technical Area Expert TA 1.2

3. VALIDATION CONCLUSIONS

The findings of validations are listed in following sections. The validation criteria (requirements), the means of verification and the results from validating the identified criteria are documented in details in validation protocol in appendix-I.

The final validation findings relate to the project design as documented and described in the revised and resubmitted project design document "version 08 dated 14/09/2012"

3.1 Approval and Participation

The PP has submitted, to the DOE, the letter of approval/10/ issued by the Indian DNA, 'The Ministry of Environment & Forests' bearing Letter No. 4/6/2012-CCC dated 30/10/2012. The name of the project activity and project participant in the HCA was verified against that in section A.1 and section A.3 of the PDD respectively and was found to be consistent and hence accepted.

The letter of approval confirms that:

(a) The Government of India has ratified the Kyoto Protocol on 26th August 2002 (http://maindb.unfccc.int/public/country.pl?country=IN) and hence is a Party to the Kyoto Protocol

(b) The HCA is an approval of voluntary participation in the proposed CDM project activity

(c) The project contributes to Sustainable Development in India

(d) The HCA refers to the precise proposed CDM project activity title – 'Wind Energy Project in Gujarat by Enn Enn Corp Limited.' – mentioned in the PDD being submitted for registration

The LoA is unconditional with respect to (a) to (d) mentioned above. The validation team confirms that the HCA submitted by the PP is in accordance to para 45-48 of the VVM version 01.2 (EB 55 Annex 1).

The host country for this project is India and has ratified the Kyoto Protocol on 26th August 2002. This was checked from the UNFCCC website http://maindb.unfccc.int/public/country.pl?country=IN. The project participant listed in section A.3 of the PDD is Enn Enn Corp Limited; the HCA /10/ from the Indian DNA approves the participation of the project participant mentoned above; therefore the project participant is approved by the Party to Kyoto Protocol. Also, the project participant listed in section A.3 of the PDD is consistent with the contact details provided in Annex 1 of the PDD. The validation team also confirms that no entities other than those approved as project participant are included in section A.3 and Annex 1 of the PDD. No Annex I Party has been identified in the PDD.

The PP has submitted the MoC **/**11/ dated 13/07/2012, which was verified against the project title and information mentioned in Annex 1 and found to be consistent and hence accepted.

The DNA of India issued a Letter of Approval on 30/10/2012 /10/, approving participation of Enn Enn Corp Limited as a project participant. As per paragraphs 51 to 54 of the VVM version 01.2 (EB 55 Annex 1), the validation team is of the opinion that, the proposed CDM project activity meets all the relevant participation requirements. The Authenticity of the letter of approval /10/ has been confirmed by checking the original LoA issued by Ministry of Environment & Forests, Government of India, National CDM Authority, and validation team did not found reason to doubt its authenticity. The letter of approval does not refer to any specific version of the validation report. By checking the original LoA /10/ validation team considers the LoA in accordance with paragraphs 45-48 of the VVM version 1.2 /12/ and hence validation team has no doubt on the authenticity of the LoA for the project activity. The proposed project does not involve any public funding from an Annex I Party, and the validation did not reveal any information that indicated that the project could be seen as a diversion of official development assistance (ODA) funding towards the host country. The project proponent has given a written declaration/36/ confirming that there is no usage of public funding in the project activity.

Project participants	Enn Enn Corp Limited
Parties involved	India
APPROVAL	
LoA received	Yes
Date of LoA	30/10/2012
LoA received from	Enn Enn Corp Limited
Validation of authenticity	Verified with Original LoA /10/.
Validity of LoA	Yes
PARTICIPATION	
Party is party to Kyoto Protocol	Yes
Voluntary participation	Yes
Project contribution to SD	Yes

3.2 Project Design Document

The PDD for the project activity “Wind Energy Project in Gujarat by Enn Enn Corp Limited.”, in India, version 01 dated 05/12/2011, version 2 dated 21/05/2012, version 03 dated 18/06/2012, version 04 dated 14/07/2012, version 05 dated 21/07/2012, version 06 dated 17/08/2012, version 07 dated 28/08/2012, version 08 dated 14/09/2012, version 09 dated 03/11/2012 and version 10 dated 01/12/2012.submitted by Enn Enn Corp Limited has been the basis for the validation process.

URS confirms that the above PDD version 10 dated 01/12/2012 is based on the currently valid PDD template “Clean Development Mechanism Project Design Document form (CDM-SSC-PDD)”, version 03 dated 22/12/2006 /73/ and is completed in accordance with the applicable guidance document for SSC “Guidance for completing the simplified project design document (CDM-SSC-PDD) and the form for proposed new small scale methodologies (CDM-SSC-NM), version 07, dated 02/08/2008” /74/.

The main changes between the PDD version 01 of 11/07/2012 published for GSC and the PDD version 10 dated 01/12/2012 submitted for registration are the following:

Section of the PDD	Main Changes in the final version of the PDD compared to the webhosted PDD
Section A.4.1.4	The details of the physical location of the project activity has been revised as per commissioning certificates
Section A.4.3, B 6.4	Estimation of annual emission reductions in tonnes of CO_2 e have been revised as Emission factor has been revised. Latest CEA database available at the

	time of validation was not used in calculating emission factor in webhosted PDD. CEA database version 7 is used in revised PDD version 10 which is the latest version available at the time of validation
Section B.2	Justification of applicability conditions of the methodology have been revised in line with the methodology
Section B.5	Benchmark of the project activity has been revised and revised benchmark is applicable at the time of decision making. IRR has been revised. Further details are mentioned in section 3.5 below
Section B.6.1 & B.6.2	Calculation of the grid emission factor for the project activity has been revised Latest CEA database available at the time of validation was not used in calculating emission factor in webhosted PDD. CEA database version 7 is used in revised PDD version 10 which is the latest version available at the time of validation
Section B.7.1 & B.7.2	Monitoring Plan has been revised as per monitoring being carried out at site.

3.3 Description of Project Activity

The project activity is a Greenfield wind power project of 12.6 MW, situated in Rajkot and Surendranagar Districts of Gujarat State, which entails the installation of 6 WTGs of 2.1 MW each. The details of the project activity are as follow. URS team reviewed the purchase orders, commissioning certificates, power purchase agreements, and also conducted site visit for verifying the description of project activity.

Sr. No.	Unique Identification Number of WTGs	Location No.	WTG Capacity (MW)	Site/ Village	Date of Commissioning	Latitude	Longitude
1.	SEL/2100/11-12/2349	JSD-43	2.1	Dahisara	30/09/2011	22^0 11’ 21.6” N	71^0 08’ 49.7”E
2.	SEL/2100/11-12/2350	JSD-44	2.1	Dahisara	30/09/2011	22^0 11’ 09.6” N	71^0 09’ 01.7” E
3.	SEL/2100/11-12/2346	JSD-76	2.1	Pipaliya dhoro	30/11/2011	22^0 08’ 17.2”N	71^0 04’ 30.9”E
4.	SEL/2100/11-12/2426	JSD-51	2.1	Barvada	29/03/2012	22^0 08’ 17.3” N	71^0 10’ 55.8”E
5.	SEL/2100/11-12/2347	JSD-24	2.1	Pipaliya dhoro	30/11/2011	22^0 09’ 27.8” N	71^0 09’ 34.3”E
6.	SEL/2100/11-12/2348	JSD-25	2.1	Khadvavdi	18/11/2011	22^0 09’ 52.2” N	71^0 09’ 29.2”E

The power produced by the WTGs of Enn Enn Corp Limited will be sold to Gujarat Urja Vikas Nigam Limited (GUVNL). EECL has signed three power purchase agreements (PPAs) /19-21/ with Gujarat Urja Vikas Nigam Limited for the same. Commissioning dates were verified with the commissioning certificate /22-24/ issued by Gujarat Energy Development Agency (GEDA) and found to be correct. The grid connectivity was checked by PPA. /19-21/. The project participant has provided a declaration from Suzlon the WTG supplier regarding geocordinates for the WTGs of the project activity.. The technical details of the project activity were verified from the purchase orders /25-27/29-32//34-35/, commissioning certificates/22-24/ and physical inspection by the validation team during the site visit. The description of the project mentioned by the PP in the PDD was found to be accurate and complete.

The project will achieve emission reductions by supplying electricity to the NEWNE grid, which is dominated by fossil fuel based thermal power plants. Therefore, the net generation of the project will displace same amount of electricity of the grid resulting in GHG emissions reductions. The annual emission reductions are expected to be 21,085 tCO_2e. According to simplified modalities and procedures for small-scale CDM project activities the type and category of the project activity has been correctly identified in the PDD.

URS confirms that the technology implemented reflects the current good practice in the host country. Implementation of the project activity doesn't involve any technology transfer from Annex-1 countries to host country. The technology given in the PDD is consistent with the actual planning and implementation of the project activity. The validation team confirmed the installation, the manufacturer, and capacities through personal inspection of the WTGs during the site visit and cross verifying with the purchase order , commissioning certificate /22-24/, power purchase agreement /19-21/ with the state utility. The annual energy generation of the project is estimated to be 22130 MWh/year based on PLF of 20.05%. PLF is determined by third party contracted by PP, hence the validation team agrees with the PLF as it is in line with Annex 11 of EB 48 /75/.

The starting date of the project activity is 20/04/2011, the date when the PP has issued purchase order to Suzlon Energy Limited. It has been verified by URS that the starting date represents the earliest date on which the project participant has taken real actions towards the project activity as per the Glossary of CDM Term /61/. The WTGs included in project activity are under operation and all the WTGs in Gujarat were commissioned on 29/03/2012. The expected operational life time of the project activity is 20 and the same has been verified from the technical specification provided Thus the lifetime of 20 years is acceptable to the validation team. A fixed crediting period of 10 years has been chosen for the project, starting from 25/12/2012 or the date of registration, whichever occurs later. The GHG emission reductions are estimated to be average 21,085 tCO_{2e} per year and total estimated GHG emission reduction are 210,850 tCO_2e over the 10-years crediting period.

URS has checked all the documented evidences listed above during the validation process and can confirm that the project description is complete and accurate; moreover URS confirms that the description of the proposed CDM project activity, as contained in the PDD version 10 sufficiently covers all relevant elements, is accurate and complete and that it provides the reader with a clear understanding of the nature of the proposed CDM project activity.

3.4 Selected Baseline and Monitoring Methodology

3.4.1 Application of Selected Baseline and Monitoring Methodology

The proposed project activity is a 12.6 MW grid connected wind power project in State of Gujarat in India. The project uses the small scale methodology AMS I.D, version 17. The project correctly applies the approved baseline and monitoring methodology "AMS-I.D", "Grid connected renewable electricity generation", version 17 of 03/06/2011 /14/.
The following steps have been undertaken for assessing the applicability conditions of the methodology:

Applicability of AMS I.D. Version 17 is illustrated as below:

Para 1 *"This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass:*
(a) Supplying electricity to a national or a regional grid; or
(b) Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling"

The proposed CDM project activity is a wind energy power plant i.e. it is renewable energy generation unit, which is supplying the generated electricity to NEWNE grid. The grid connectivity of the project was verified through the PPA /19-21/. This has also been verified during the site visit and found to be correct. Hence, the project activity complies with the applicability criteria 1 of the baseline and monitoring methodology AMS I. D. Version 17.

Para 2, *"Illustration of respective situations under which each of the methodology (i.e. AMS-I.D, AMS-I.F and AMS-I.A) applies is included in Table 2."*

The project activity supplies electricity to the NEWNE grid of India, which is a regional grid of India. Thus, the project activity complies with the requirement of the methodology AMS I. D. as per the illustration provided in the Table 2 of the applied baseline and monitoring methodology AMS I. D. version 17. The grid connectivity of the project was verified through the PPA /19-21/. This has also been verified during the site visit and found to be correct.

Para 3, "*This methodology is applicable to project activities that: (a) Install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity (Greenfield plant); (b) Involve a capacity addition; (c) Involve a retrofit of (an) existing plant(s); or (d) Involve a replacement of (an) existing plant(s).*"

The project involves the installation of a new wind power plant where there was no renewable energy power plant operating prior to the implementation of the project activity. The proposed CDM project activity is a Greenfield project activity which is evident from the purchase order /25-27/29-32//34-35/ and the commissioning certificates /22-24/. This has also been verified during the site visit. Hence, the project activity meets the applicability criteria.

Para 4 – *"Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology:*
a) The project activity is implemented in an existing reservoir with no change in the volume of reservoir;
b) The project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density of the project activity, as per definitions given in the Project Emissions section, is greater than 4 W/m2;
c) The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the Project Emissions section, is greater than 4 W/m2."

The project activity involves the use of wind energy for the generation of power. As it is not a hydro power plant, this criteria is not applicable to the project activity under consideration

Para – 5, "*If the new unit has both renewable and non-renewable components (e.g., a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW."*

The project activity envisages the use of renewable energy only i.e. wind energy. The total installed capacity of this wind power project is 12.6 MW which is less than the threshold capacity limit of 15 MW for a small scale project activity. The capacity of the project is verified from purchase orders and found to be correct.

Para – 6, "*Combined heat and power (co-generation) systems are not eligible under this category."*

The project activity is a wind energy project. . The project activity is not a cogeneration system and this has been verified during the site visit.

Para – 7*, "In the case of project activities that involve the addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct from the existing units."*

The proposed CDM project activity is a Greenfield project activity which is evident from the purchase order /25-27//29-32//34-35/ and does not involve the addition of renewable energy generation units at an existing renewable power generation facility and it has also been verified during the site visit.

Para – 8, "*In the case of retrofit or replacement, to qualify as a small-scale project, the total output of the retrofitted or replacement unit shall not exceed the limit of 15 MW."*

The project activity is a greenfield wind enrgy project and it it does not involve retrofit and/or replacement to the existing equipment. The proposed CDM project activity is a Greenfield project activity which is evident from the purchase order /25-27//29-32//34-35/ During the site visit it is verified that no other wind mills that belongs to project activity/project participant are being implemented/constructed at the same site. Hence it can be concluded that proposed project is not a capacity addition.

Thus, all the applicability criteria of AMS I.D, version 17 have been duly addressed and justified. Hence, from the above discussion, it has been confirmed that the applicability of the selected methodology AMS I.D, version 17 to the proposed project activity was found to be reasonable and acceptable.

According to the "Guidelines on assessment of de-bundling for SSC project activities" the project activity is not a de-bundled component of a large project activity as there is no registered small-scale CDM project activity or an application to register another small-scale CDM project activity with the same project participants in the same project category and technology/measure within the previous two years whose project boundary is within 1 km of the project boundary of the proposed small-scale project activity at the closest point as stated in the revised PDD version 10, the same was verified during the site inspection of project and confirmed.

As stated above, the project capacity is 12.6 MW which is less than limit of 15 MW as specified in General Guidance to SSC CDM methodologies. The small scale methodology AMS-I.D version 17 /14/ is applied in conjunction with General Guidance to SSC CDM methodologies /17/.

There are no emission sources which are not addressed by the applied methodology and which are expected to contribute more than 1% of the overall expected average annual emissions reduction. The project activity is a wind energy project and during site visit no other sources were observed which are not addressed by methodology.

Based on the document review and on-site visit, URS hereby confirms that the selected baseline and monitoring methodology has been previously approved by the CDM Executive Board, and is applicable to the Project, which complies with all the applicability conditions therein

3.4.2 Project Boundary

The selected methodology AMS I.D, version 17 paragraph 9 states that "the spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the CDM project power plant is connected to."

The PP has described the project boundary in section B.3 of the PDD and has included the WTGs, sub-station and the NEWNE grid of India to which the proposed project activity evacuates power. This was verified during the site visit and through the commissioning certificates /22-24/, PPA /19-21/. The NEWNE grid of India has been correctly identified for calculation of electricity emission factor as the project displaces an equivalent amount of electrical energy from the NEWNE grid.

The energy generating equipment is new and they are not transferred from another activity. The same was verified during site visit and also verified from review of purchase orders and commissioning certificates. Hence in line with AMS-I.D version 17 there are no leakage emissions. The electricity imported by the project activity is accounted in the net electricity exported by the project activity, EG_{BLy}. There are no other sources of project emissions. Hence, in line with the methodology, project participant has considered project emissions as zero for renewable wind power project.

The diagrammatic description of the project boundary mentioned in section B.3 of the PDD correctly describes the project boundary.

	GHGs Involved	Description
Baseline emissions	CO_2	Net electricity delivered to the grid by the project activity where GHG emission occur due to fossil fuel based power plants
Project emissions	NA	No project emissions are envisaged in the project activity as per the methodology.
Leakage	NA	No Leakage, since there is no transfer of equipment

Based on the document review and site visit, validation team confirms that the project boundary and emission sources described in the PDD are accurate and complete, and also that the selected sources and gases are justified for the proposed project activity validation team further confirms that identification of project boundary is in line with paragraph 78-80 of VVM version 01.2 (EB 55 Annex-1).

3.4.3 Baseline Scenario Identification

According to the approved baseline and monitoring methodology "AMS-I.D", Grid connected renewable energy generation", version 17 of 03/06/2011 /14/, the baseline scenario is the electricity delivered to the grid by the project activity that otherwise would been generated by the operation of grid-connected power plants and by the addition of new generation sources and the same is stated in PDD. Since the approved methodology applied prescribes the baseline scenario, no further analysis is required on the identification of alternative according to paragraph 105 of the VVM version 01.2 /12/.

URS was able to verify all the documented evidence such as CO2 Baseline Database for the Indian Power Sector user guide, version 06 /37/, the applied methodology AMS-I.D, version 17 of 03/06/2011 /14/, the revised PDD version 10, and the emission reduction calculation spreadsheet during the validation process. URS confirms that all the assumptions and data used by the project participants are listed in the PDD version 10, including their references and sources, the approved baseline methodology "Grid connected renewable energy generation", version 17 dated 03/06/2011 /14/ has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed CDM project activity

3.4.4 Algorithms and/or formulae used to determine emission reductions

The baseline emissions are the product of electrical energy baseline $EG_{BL,}\ y$ expressed in MWh of electricity produced by the renewable generating unit multiplied by the grid emission factor.

$$BE_y = EG_{BL,y} \times EF_{CO_2,grid,y}$$

Where:

BE_y = Baseline Emissions in year y (t CO_2)

$EG_{BL, y}$ = Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)

$EF_{CO2\ grid, y}$ = CO_2 emission factor of the grid in year y (t CO_2/MWh)

The emission factor can be calculated in a transparent and conservative manner as follows:

(a) A combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) according to the procedures prescribed in the Tool to calculate the Emission Factor for an electricity system.;

OR

(b) The weighted average emissions (in t CO_2/MWh) of the current generation mix. The data of the year in which project generation occurs must be used

The proposed CDM project activity will generate and export the electricity to the NEWNE regional grid and the emission reductions achieved because of the project activity will be direct function of the net electricity fed to the grid and grid emission factor for the NEWNE regional grid. Emission factor is calculated as a combined margin, consisting of the combination of the operating margin and build margin according to the procedures prescribed in the methodological tool "Tool to calculate the emission factor for an electricity system". This is confirmed by interaction with the PP and as seen during the site visit, which is also in line with methodology applied to the project activity.

3.5 Additionality of Project Activity

The proposed CDM project activity has demonstrated additionality by applying the "Guidelines on the demonstration of additionality of small-scale project activities, EB 68, Annex 27". Additionality is demonstrated using investment barrier. In line with Non-binding best practice examples to demonstrate additionality for SSC project activities (EB 35, Annex 34) benchmark analysis is used under investment barrier). The benchmark analysis approach is appropriate, since the alternative to the project activity is the supply of electricity from the grid. This is inline with paragraph 19 of Guidelines on the Assessment of Investment Analysis (EB 62 Annex 5).

The above opinion of URS to the additionality of the proposed project is further explicitly explained in the following steps.

3.5.1 Prior Consideration of the Clean Development Mechanism

The start date of the proposed CDM project activity has been mentioned in section C.1.1 of the PDD as 20/04/2011. The evidence for the same submitted by the PP is the purchase order /25-27//29-32//34-35/ issued to Suzlon Energy Ltd. for the supply of 6 WTGs Validation team has accepted the start date since this is the earliest date at which the PP has taken real action towards the project activity as per the Glossary of CDM Terms /61/. The validation team has verified the same by cross checking the purchase order issued to Suzlon Energy Limited and confirms that the start date selected is appropriate..

The project start date (20/04/2011) is prior to 07/02/2012 when the PDD was published for global stakeholder consultation. PDD was webhosted for global stake holder comments from 07/02/2012 to 07/03/2012. Hence as per the "Guidelines on the demonstration and assessment of prior consideration of the CDM", version 04 dated 15/07/2011 /33/ for project activity with a start date after 02/08/2008, project participant must inform the Host Party DNA and the UNFCCC secretariat in writing of the commencement of the project activity and of their intention to seek CDM status within six months of projects start date.

It was noted that project participant had sent an email communication to Indian DNA on 11/10/2011, to convey the commencement of the project activity and their intention to seek CDM status, using the standardized form F-CDM-Prior Consideration. Project participant had also sent an email communication to UNFCCC on 05/10/2011, to convey the commencement of the project activity and their intention to seek CDM status, using the standardized form F-CDM-Prior Consideration. The project participant provided the e-mail communication dated 05/10/2011 sent to UNFCCC /88/ and email sent to DNA of India dated 11/10/2011 /87/ regarding prior consideration and F-CDM-Prior Consideration form dated 04/10/2011 to the validation team. Thus the project participant had informed UNFCCC (i.e. on 05/10/2011) and DNA (i.e. on 11/10/2011) within six month from the project start date (i.e. 20/04/2011). The validation team has also cross-checked prior consideration section on UNFCCC website and observed that the project is on UNFCCC website and date received is shown as 05/10/2011.

The assessment of the Prior Consideration of the project activity "Wind Energy Project in Gujarat by Enn Enn Corp Limited" is conducted by reviewing documents submitted by project participant to UNFCCC and DNA of India and consulting the UNFCCC website, whereby the validation team confirms that the UNFCCC secretariat received the intimation sent by Enn Enn Corp Limited on 05/10/2011. The validation team hereby confirms that this intimation is made within six months of the project activity start date.

Based on the above assessment, the URS hereby confirms that the proposed CDM project activity complies with the requirements of the latest version of the Guidelines on the demonstration and assessment of prior consideration of CDM (Annex 13 of EB 62).

In conclusion, in accordance with the requirements of the Guidance on the demonstration and assessment of prior consideration of the CDM /33/ and VVM /12/, URS can confirm that the CDM was considered necessary in the decision to implement the project activity.

3.5.2 Identification of Alternatives

The proposed CDM project activity has demonstrated additionality by applying the "Guidelines on the demonstration of additionality of small-scale project activities, EB 68, Annex 27". Additionality is demonstrated using investment barrier. In line with Non-binding best practice examples to demonstrate additionality for SSC project activities (EB 35, Annex 34) benchmark analysis is used under investment barrier.

As per the approved baseline and monitoring methodology "AMS-I.D", "Grid connected renewable electricity generation", version 17 of 03/06/2011 /14/, the baseline scenario is electricity delivered to the grid by the project activity that otherwise would have been generated by the operation of grid-connected power plants. The baseline emissions are the product of electrical energy baseline $EG_{BL,y}$ in MWh of electricity produced by the renewable generating unit multiplied by the grid emission factor of the NEWNE grid. The Project participant considered the project's baseline scenario in line with what is prescribed by the applied methodology AMS-I.D version 17. Since the approved methodology that is applied prescribes the baseline scenario, no further analysis on alternative identification is required, according to paragraph 105 of the VVM version 01.2 /12/.

3.5.3 Investment Analysis

(a) Choice of Approach

The proposed CDM project activity has demonstrated additionality by applying the "Guidelines on the demonstration of additionality of small-scale project activities, EB 68, Annex 27". Additionality is demonstrated using investment barrier. In line with Non-binding best practice examples to demonstrate additionality for SSC project activities (EB 35, Annex 34) benchmark analysis is used under investment barrier. The benchmark analysis approach is appropriate, since the alternative to the project activity is the supply of electricity from the grid. This is in line with paragraph 19 of Guidelines on the Asessment of Investment Analysis (EB 62 Annex 5).

Project participant has selected benchmark analysis to demonstrate the additionality of the CDM project activity and project participant has demonstrated that the project without CDM revenues is financially not feasible. The project generates financial benefits other than CDM revenue in the form of sale of electricity, project participant cannot apply simple cost analysis. The alternative to the project activity is supply of electricity from the grid, hence Investment comparison analysis is also not appropriate in accordance with "Guidelines on the assessment of Investment Analysis", version 05 dated 15/07/2011, EB 62, Annexure 5. Hence the project developer has chosen to apply the benchmark analysis method. Equity IRR has been chosen as financial/ economic indicator for demonstrating the additionality using benchmark analysis

The PP has chosen to apply the required/ expected returns on the equity as the benchmark which is appropriate benchmark for equity IRR as per para 12 of Guidelines on the assessment of investment analysis' version 05, EB 62, Annex 5.

(b) Suitability of Benchmark

Para 112 (a) of VVM ver 1.2 states that benchmark should be suitable to the type of financial indicator selected. In line with above, project participant has selected return on equity as the benchmark. Thus, the benchmark is suitable to the financial indicator presented and it meets requirements of para 112 (a) of VVM ver 1.2.

Expected return on equity is calculated based on the CAPM (Capital Asset Pricing Model) using publicly available financial data. The required rate of return on equity is calculated as risk free rate plus beta times risk premium where beta represents the risk involved in the project type. The benchmark is based on parameters that are standard in market as per para 15 of Guidelines on the assessment of Investment Analysis", version 05 dated 15/07/2011, EB 62, Annexure 5 and hence the above approach for calculating benchmark was accepted.

Further, each of the parameters used in calculation of return on equity was checked for their appropriateness. Risk free rate has been sourced from Yield to Maturity of Central Government Securities for 20 years published by Reserve Bank of India, Government of India /84/. Average risk free rate works out to be 8.34% which is applicable at the time of decision making. Since this is an official source of data which is publicly available, it is accepted.

The market return is arrived at based on the BSE sensex considering more than 30 years of data which is a publicly available data and hence it is accepted. The market return works out to be 17.95%. Risk premium is calculated as the difference between the market return and risk free rate. The risk premium works out to be 9.61%. The decision date is 18/04/2011 and data from April 1979 to March 2011 has been considered in calculating market return which is acceptable.

The beta value for the project type was based on Beta values of power generating companies in India and listed on the stock exchange at the time of investment decision. The beta has been taken for 7 companies for 5 year period prior to decision making. Equity beta was calculated for a five year data and it was converted to asset beta /82-83/. Asset beta, by definition, reflects the beta of a company without debt. Using asset beta allows the evaluation of the volatility of a company's stock without this debt benefit and thus gives a better idea of the market risk of the stock. Since beta is of power generating companies were taken and it was applicable at the time of decision making, hence was accepted.

The validation team verified the correctness and authenticity of the data used for the calculation of return on equity and found them to be correct and publicly available. This is also in line with the guidelines for benchmark selection stipulated in the Guidance on the Assessment of Investment Analysis, and hence the validation team has accepted the same. The return on equity (benchmark) works out to be 16.42%.

The project participant has also compared the return of equity determined as per CAPM with the default return on equity given in Guidelines on the assessment of investment analysis version 05. The default values for the expected return on equity is 11.75% as given in Appendix A of the guidelines. It is clearly mentioned in Guidelines on the Assessment of Investment Analysis, version 05, that the values are expressed in real terms. The equity IRR calculated is nominal equity IRR as escalation is considered in O&M cost. Accordingly PP converted the default benchmark which is in real terms into nominal terms by using the following equation

Nominal Benchmark = (1+ Benchmark real)*(1+ Inflation rate) -1

The validation team referred the book 'Corporate Finance, Theory and Practice (2nd Edition, 2009) by Aswath Damodaran /76/. In Chapter 11 of the book titled 'Investment Analysis with Inflation and Exchange Rate Risk on page 320, the same equation is mentioned for converting real into nominal values. Hence the validation team considers the above equation as appropriate for converting real benchmark into nominal benchmark.

The inflation rate considered by PP is the mean Wholesale Price Index (WPI) Inflation forecast of 5.4% for ten years as given by Reserve Bank of India, Government of India in document 'Survey of Professional Forecasters : Results of the Fourteenth Round (Q3:2010-11) (http://rbi.org.in/scripts/PublicationsView.aspx?id=13050) dated 02/02/2011 /72/. The inflation forecast is applicable at the time of decision making. The nominal benchmark considering inflation works out to be 17.78%. Thus PP converted real term values in to nominal values by adding the inflation forecast of the central bank of host country for the duration of the crediting period.

Reserve Bank of India (RBI), Government of India is Central Bank of host country (India) and it is India's monetary authority. The RBI is supervisor of financial system, issuer of currency and manages foreign exchange reserves of the country. Thus the inflation forecast by RBI can be considered as reliable and authentic. WPI inflation forecast is Wholesale Price Index inflation forecast. The Indian government has taken WPI as an indicator of the rate of inflation in the economy. Presently price levels for 435 commodities are being tracked through Wholesale Price Index in India. The commodities are grouped under Primary Articles; Fuel and Power and Manufactured Products. Since WPI inflation considers the

wholesale price for power which would include power generated from all sources, this inflation forecast rate is most appropriate for the project activity. Thus the validation team considers that WPI inflation forecast as appropriate for the project activity.

The return on equity calculated using CAPM was 16.42% which is conservative as compared to default return on equity (after considering inflation) of 17.78%. This validation team accepted the benchmark of 16.42%.

The validation team has confirmed that all data used to arrive at the benchmark were derived from the sources available to the project participant at the time of the investment decision and hence the validation team accepted the same. Thus, the benchmark is in line with para 112 of VVM ver 1.2.

(c) Validity and Applicability of the Input Parameters

The validation team of URS validated the input values and assumptions in the investment analysis by checking the source documents as detailed in table below. It is noted that the values of the input values stated in the PDD are consistent with that of the financial calculation sheet. The lifetime of the WTGs are confirmed to be 20 years as per the technology supplier and the investment analysis is done for the period of 20 years and hence is justified as per the guidelines on assessment of investment analysis. Hence URS accepted the calculations.

The investment decision date of the project activity is 18/04/2011 as per the 'Extracts of Minutes of Meeting of the company dated 18/04/2011/65/. The input values are applicable at the time of investment decision as detailed in table below. .

Also to determine the likelihood of the occurrence of a scenario other than the scenario presented for proposed project activity, a cross-check on the suitability of the assumptions used in the development of the investment analysis has been done. The detailed analysis on the assessment of the input parameters used in the investment analysis has been provided in the following table:

Parameter	Unit	Value	Source	Validation Assessment
Capacity of each WTG	MW	2.1	As per the offer letters /38-45/, /85/ of the project activity	The individual capacity of WTGs was verified from the offer letter /38/ to /45/, /85/ which was applicable at the time of decision making and cross verified with the actual Purchase Order /25-27/,/29-32//34-35/. Further it was also confirmed from the commissioning certificates and the inspection WTGs during the site visit
No. of WTGs		6	Extract from Minutes of Board Meeting /65/	The number of WTGs was verified from the Extract from Minutes of Board Meeting and cross verified with the actual Purchase Order /25-27/,/29-32//34-35/. Further it was also confirmed from the commissioning certificates and the inspection WTGs during the site visit
Total capacity	MW	12.6	Extract from minutes of Board Meeting /65/	The total capacity of WTGs was verified from the Extract from Minutes of Board Meeting and cross verified with the actual Purchase Order /25-27/,/29-32//34-35/. Further it was also confirmed from the commissioning certificates and the inspection WTGs during the site visit
Plant Load Factor	%	20.05%	Third party PLF report /48/	PLF considered in IRR is 20.05%. Project participant has provided PLF report prepared by third party M/s. Vijayant Consultants. The PLF of the project activity i.e. 20.05% was verified with the PLF determination report provided by the third party. The PLF determination report

				provided by the third party were found to be appropriate and acceptable, thus the PLF conforms to the requirement of paragraph 3 (b) of EB 48, Annex 11. The last WTG was commissioned on 29/03/2012, hence one year data of actual generation is not available to determine actual PLF. In line with para 111 (b) of VVM ver 1.2, validation team checked PLF cost against publicly available sources and GERC tariff order dated 30/01/2010 /46/ states PLF as 23% and IRR was calculated considering PLF of 23% and IRR at this PLF was 13.30% was lower than the benchmark of 16.42%. The project participant has carried out sensitivity at +10% of the PLF. The IRR at +10% of PLF was less than the benchmark.
Project Cost	Million INR	720 Million INR	Offer letters /38-45/, /85/	The project cost, has been taken from the offer letters dated 11/04/2011 /38-45//85/ of the project activity issued by the technology supplier M/s. Suzlon to the PP which is applicable at the time of decision making and hence it is in line with para 6 of EB 62 Annex 5.. In line with para 111 (b) of VVM ver 1.2, URS cross checked the project cost considered in IRR calculations with actual project cost. The actual project cost as per the purchase orders /25-27/, /29-32//34-35/ is INR 666 million. The project participant has also provided a CA certificate /79/ which also states project cost as INR 666 million. The actual project cost is 7.5 % lower than the cost considered at the time of decision making. The project participant has carried out sensitivity at -10% of the project cost which covers actual cost also. The IRR at -10% of the project cost is 10.10% which is less than the benchmark of 16.42%.
Debt equity ratio	%	70:30	GERC tariff order /46/	The debt equity ratio in the IRR calculations is taken as 70:30 as per GERC tariff order dated 30/01/2010 which is applicable at the time of decision making and hence it is in line with para 6 of EB 62 Annex 5. In line with para 111 (b) of VVM ver 1.2, the validation team also checked actual debt equity ratio. The actual debt equity ratio is 71:29. The project participant calculated IRR at actual debt equity ratio which is less than the benchmark. Hence the debt equity ratio is acceptable to the validation team.
Interest Rate	%	9.50 %	Reserve Bank of India /69/	The interest rate of 9.50% has been considered as interest rate of five major banks as published by Reserve bank of India, Government of India /69/. As the data is published by Reserve Bank of india which is Central Bank of host country (India)

				and it is India's monetary authority so its data can be considered as reliable and authentic. The interest rate is applicable at the time of decision making , hence it is in line with para 6 of EB 62 annex 5. Further the interest rate considered at the time of decision making is conservative as compared to actual interest rate. The actual interest rate is 13.0% as per loan sanction letter /86/
Tariff	INR/ kWh	3.56	GERC tariff order 2010/46/	The tariff in the IRR calculations is taken as INR 3.56 per KWh which is from tariff order of Gujarat Electricity Regulatory Commission dated 30/01/2010 which is applicable at the time of decision making hence it is in line with para 6 of EB 62 Annex 5. Project participant has mentioned in PDD that they have availed REC benefits. Renewable Energy Certificate (REC) is scheme started by Government of India which gives comparative advantage to renewable energy generation technologies like wind, solar etc. For each MWh of energy generated using renewable technology, the generator gets a Renewable energy Certificate (REC) which can be traded in power exchange. REC is a E- policy as per EB 22 Annex 3 as it came into existence after 11 Nov 2001 and it gives comparative advantage to less emission intensive technologies. Further in the Information note on the implementation of E+/E- in the context of projects on the agenda of 53rd Meeting of the CDM EB (EB 53, Annex 32), it is stated that the guidance on national and/or sectoral policies be applied in the determination and assessment of input values used in investment analysis. It is further stated in the note that in assessing the suitability of tariffs applied in the investment analysis of proposed CDM project activities which supply less carbon intensive electricity than the baseline, DOEs should assess whether the tariff has been affected by any national and/or sectoral policy and if so whether this policy/policies are E+ policies or E- policies. The project participant (as per EB 22 Annex 3) has considered a hypothetical scenario considering REC scheme not in existence. If REC scheme was not in existence then PP would have signed PPA at preferential tariff i.e. INR 3.56/KWh. The validation team agrees that REC is a E- policy as it came into existence after 11 Nov 2001 and it gives comparative advantage in quantitative terms to renewable energy technologies and hypothetical scenario considering REC not in place may be considered. The coal and other fossil fuel based power generation does not get benefit of REC and thus REC in quantitative terms gives comparative advantage to less emission intensive technologies. Project participant has signed PPA

				at a non-preferential tariff of INR 2.64/KWh. However, in the investment analysis, PP has considered a tariff of INR 3.56/KWh which is a preferential tariff. The same is accepted by validation team as per EB 22, Annex 3, a hypothetical scenario considering REC scheme not in place has been considered. If PP would not have opted for REC then they would have signed PPA at preferential tariff of INR 3.56/KWh which is accepted by the validation team. Further the project participant has carried out sensitivity on ±10% of tariff and IRR at +10% of tariff is less than the benchmark.
Operation lifetime of WTGs	Years	20	Technical Specifications /59/	The expected technical life of WTGs is 20 years as per the technical specifications of the WTGs (Model: S -88 2100 kW) provided by the technology supplier M/s. Suzlon Energy Limited and accordingly the financial analysis of the project activity has been conducted for a period of 20 years, which is appropriate and acceptable.
O & M cost	Million INR/ WTG	2.10	Offer letters /38-45/, /85/	The O&M cost is considered is INR 2.1 million per WTG and total O&M cost for 6 WTGs works out to be INR 12.6 million. The O&M cost has from the offer letters dated 11/04/2011 /38-45/, /85/ of the project activity issued by the technology supplier M/s. Suzlon to the PP which is applicable at the time of decision making and hence it is in line with para 6 of EB 62 Annex 5.. First year O&M is given free and accordingly project participant has not considered O&M in the first year of operation. As the technology provider provided one year free O&M, actual O&M contract are not available. In line with para 111 (b) of VVM ver 1.2, validation team checked O&M cost against publicly available sources and GERC Tariff order dated 30/01/2010 states O&M cost as INR 0.65 million per MW with 5% escalation. Accordingly Project participant calculation IRR at this O&M cost as given in GERC tariff order and IRR at this O&M cost is 9.41% which is also less than the benchmark of 16.42%. Further the project participant has carried out sensitivity on ±10% of O&M cost and IRR at -10 % of O&M cost is less than the benchmark.
Escalation on O & M Charges	%/ Annum	5%	Offer letters /38-45/, /85/	The escalation in O&M cost is considered as 5% the offer letters dated 11/04/2011 /38-45/, /85/ of the project activity issued by the technology supplier M/s. Suzlon to the PP which is applicable at the time of decision making and hence it is in line with para 6 of EB 62 Annex 5.. First year O&M is given free and accordingly

				project participant has not considered O&M in the first year of operation. GERC Tariff order dated 30/01/2010 states O&M cost as INR 0.65 million per MW with 5% escalation. Accordingly Project participant calculation IRR at this O&M cost as given in GERC tariff order and IRR at this O&M cost is cost is 9.41% which is also less than the benchmark of 16.42%.
Tax depreciation	%	80%	Income Tax Rules, /89/	The project participant has considered the tax depreciation as per the rates prescribed in New Appendix I of Income Tax Rules, 1962. The same has been checked by the validation team and found to be correct, hence accepted.
Book depreciation rate (SLM) on all assets	%	4.75%	Company Act, 1956	The project participant has calculated the depreciation as per straight line method as per rates in Schedule XIV under the Companies Act, 1956. Validation team has cross checked the same and found to be correct and hence accepted.
Income Tax Rate	%	32.45%	Income Tax Act, FY 11-12	The tax rates have been considered as per Income Tax Act for FY 2011- 12 As the tax rates are as per Income Tax Act for F Y 2011-12, the same is accepted by the validation team.
Minimum Alternative Tax (MAT)	%	20.01 %	Income tax Act, FY 11-12	The MAT tax rates have been considered as per Income Tax Act for FY 2011- 12 As the MAT tax rates are as per Income Tax Act for F Y 2011-12, the same is accepted by the validation team
Salvage Value	%	10%	CERC tariff order /78/	The salvage value is calculated as per the CERC order dated 26/04/2010 which mentions that the salvage value of the asset shall be considered as 10% and also it is applicable at the time of decision making. Hence the same is accepted by the validation team.

The assessment team confirms that all input values considered in the investment analysis are valid and were available at the time of investment decision making. The provided input values are found to be consistent in the IRR calculation sheet and the PDD. Thus, the project activity conforms with the requirement of para 6 of EB 62, Annex 5. Loan tenure and moratorium have been taken from IREDA Financing Guidelines for wind energy projects (w.e.f. 25/05/2009) /49/ and same is checked by validation team and found to be correct.

The PP has submitted all versions of the excel spreadsheets used for the investment analysis. The sheets have been checked by the financial expert. All the assumptions, links and formulae used in the sheet are readable and all cells are viewable and unprotected. The analysis has been presented in a transparent manner in the excel spreadsheet and is reproducible. Thus, it satisfies the requirements of paragraph 8 of EB 62 Annex 5. The lifetime of the project activity is 20 years. The financial analysis has been carried out in the excel spreadsheet considering the entire period of 20 years. Thus, the assessment period has been appropriately considered as per paragraph 3 of EB 62 Annex 5. The fair value of the project activity assets at the end of the assessment period has been included as a cash inflow in the final year in the IRR calculation sheet in line with paragraph 4 of EB 62 Annex 5. The depreciation value has been deducted for calculating the gross profit and has been added back to the net profit for the purpose of calculating the Equity IRR. Thus, it satisfies the requirement of paragraph 5 of EB 62. Annex 5.

In the calculation of equity IRR only the portion of investment cost which is financed by equity has been considered as the net cash outflow and this has been verified in the IRR excel sheet. Thus, it satisfies the requirements of paragraph 10 of EB 62 Annex 5.

The validation team further assessed the correctness of computations and documentation carried out by the project participants. The assessment involves checking the data input taken from offer letter/publically available sources, adoption of correct accounting principle and arithmetical accuracy. The validation team has checked the documents and ensured that right input has been taken in the project cost and projections. The accounting principles adopted with respect to computation of depreciation and tax computation are found to be in order. The arithmetical accuracy is also found to be correct.

The equity IRR calculations and the benchmark analysis calculations were provided in excel spreadsheet and verified. The assumptions used in the calculations were verified by URS. The calculated equity IRR of the project activity without CDM revenue is 6.19 % which confirms that the proposed project activity in absence of CDM benefits as compared to benchmark of 16.42% is not financially attractive.

(d) Sensitivity Analysis

The variables, that constitute more than 20% of either total project costs or total project revenues has been subjected to variation of ± 10% and the results of this variation is presented in the PDD and can be reproduced in the associated IRR spreadsheet. Validation team confirms that this variation ± 10% is reasonable and appropriate in the context of the proposed project activity circumstances.

The PP has appropriately selected the following variables to conduct the sensitivity analysis:

1. Power Generation
2. Project Cost
3. Tariff rate
4. O & M Cost

The results of the sensitivity analysis have been presented in the PDD. The results have also been presented in the excel spreadsheet /9/ in a reproducible manner. Thus, it satisfies the requirements of paragraph 20 of EB 62 Annex 5.

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The outcome of the sensitivity analysis for each of the variable along with the selected benchmark is summarized below:

Sensitivity Analysis - Equity IRR		
Parameter	**-10%**	**10%**
Power Generation	2.71	10.74
Project Cost	10.10	3.70
Tariff rate	2.71	10.74
O & M Cost	7.00	5.38

a) Project Cost: The actual project cost as per the purchase orders /25-27/29-32/34-35/ is INR 666 million. The actual project cost is 7.5 % lower than the cost considered at the time of decision making. The project participant has carried out sensitivity at -10% of the project cost which covers actual cost also. The IRR at -10% of the project cost less than the benchmark. As actual project cost has already been incurred, the cost can not go any further down.

b) O&M Cost: As the technology provider provided one year free O&M, actual O&M contract are not available. GERC Tariff order dated 30/01/2010 states O&M cost as INR 0.65 million per MW with 5% escalation. Accordingly Project participant calculation IRR at this O&M cost as given in GERC tariff order and IRR at this O&M cost is 9.41% which is also less than the benchmark. IRR at -10% of O&M cost is also less than the benchmark.

c) PLF: The last WTG was commissioned on 29/03/2012, hence one year data of actual data of generation is not available to determine actual PLF. GERC tariff order dated 30/01/2010 states PLF as 23% and IRR was calculated considering PLF of 23% and IRR at this PLF is 13.30% which is also lower than the benchmark. IRR at +10% of PLF is also less than the benchmark.

d) Tariff: As explained above in section above, the project is under REC scheme and REC is a E- policy. Thus project participant (as per EB 22 Annex 3) has considered a hypothetical scenario considering REC scheme not in existence. If REC scheme was not in existence then PP would have signed PPA at preferential tariff i.e. INR 3.56/KWh. The validation team agrees that REC is a E- policy as it came into existence after 11 Nov 2001 and it gives comparative advantage in quantitative terms to renewable energy technologies and hypothetical scenario considering REC not in place may be considered. Further in the Information note on the implementation of E+/E- in the context of projects on the agenda of 53rd Meeting of the CDM EB (EB 53, Annex 32), it is stated that the guidance on national and/or sectoral policies be applied in the determination and assessment of input values used in investment analysis. It is further stated in the note that in assessing the suitability of tariffs applied in the investment analysis of proposed CDM project activities which supply less carbon intensive electricity than the baseline, DOEs should assess whether the tariff has been affected by any national and/or sectoral policy and if so whether this policy/policies are E+ policies or E- policies. Project participant has signed PPA at a non-preferential tariff of INR 2.64/KWh and preferential tariff of INR 3.56/KWh is considered in IRR analysis. IRR at +10% increase of tariff is also less than the benchmark.

As shown above, the PP has carried out a fairly exhaustive sensitivity analysis to prove that the IRRs do not exceed the benchmark under any circumstances. The project continues to remain additional even with reduced project costs and increased tariffs.

In conclusion, the result of the investment analysis have shown that the project is financially not viable as IRR without CDM revenues is less than the benchmark.

The IRR with CDM revenues for project activity works out to be 14.72% As the CER prices are market driven, the extent to which they reduce viability gap also varies. As the IRR without CDM revenues for project activity are less than the benchmark, the project activity without CDM revenues is not financially viable.

3.5.4 Barrier Analysis

Barrier analysis has not been carried out for the demonstration of the additionality of this project activity. Project participant has demonstrated additionality as per “Guidelines on the demonstration of additionality of small-scale project activities, EB 68, Annex 27”. as described in sections above.

3.5.5 Common Practice Analysis

This is small scale project activity, so the common practice analysis is not required to be conducted for this project activity. Project participant has demonstrated additionality as per “Guidelines on the demonstration of additionality of small-scale project activities, EB 68, Annex 27”. as described in sections above.

3.5.6 Conclusion

URS is able to confirm that all data, rationales, assumptions, justifications and documentation provided by the project participants to support demonstration of additionality are credible and reliable.

By assessing the evidences presented and cross-checking the information contained in, URS considers the reasoning for the proposed project additionality demonstration is credible and reasonable i.e. the proposed project has the ability to reduce anthropogenic emissions of greenhouse gases by sources below those that would have occurred in the absence of the registered CDM project activity. Thus URS confirms that the above discussion and analysis establishes that the project activity without CDM benefits is financially not viable.

3.6 Monitoring Plan

The project activity uses the simplified baseline and monitoring methodology AMS I.D version 17. The applicability conditions of the methodology have been discussed in section 3.4.1 above.

The monitoring plan is in accordance with the monitoring methodology. The monitoring plan will give opportunity for real measurement of achieved emission reductions. URS has checked all the parameters presented in the monitoring plan against the requirements of the methodology and no deviations relevant to the project activity have been found in the monitoring plan.

URS confirms that the monitoring arrangements described in the monitoring plan are feasible within the project design, and the means of implementation of the monitoring plan are sufficient to ensure the emission reductions resulting from the proposed CDM project activity can be reported ex post and verified.

a) Parameter determined ex-ante

Baseline emission factor for NEWNE regional grid is established ex-ante based on the approved methodology AMS-I.D, version 17 of 03/06/2011, and tools to calculate emission factor for an electricity system, version 2.2.1 /16/.

	Data/parameter	Unit	Value applied	Assessment
1	$EF_{grid,OM,y}$	tCO_2/MWh	0.9842	Project participant has used the official published data on operating and build margin emission factors. The version of the data used is latest version as available on the date of webhosting of the PDD for global stakeholder comments (viz start of validation). This data is published by Central Electricity Authority, CEA (version 7.0) who is the sole authority for the publication of such data in India. CEA has published a database of carbon dioxide emission factors for the power sector in India based on detailed authenticated information obtained from CEA on all operating power stations in the country. Project participant has applied weight factors for the OM and BM [75% & 25% respectively] as specified in the tool to arrive at the emission factor for the combined margin. Detailed justification are provided in section 3.7 below. Validation team has checked the emission factor calculations from CEA database version 7.0 and the values of $EF_{grid, CM,y,}$, $EF_{grid,OM,y}$ and $EF_{grid, BM,y}$ are found to be correct. The validation team agrees to this emission factor since it is based on the official background data published by CEA .
2	$EF_{grid, BM,y}$	tCO_2/MWh	0.8588	
3	$EF_{grid, CM,y}$	tCO_2/MWh	0.9528	

URS confirms that the database is an official publication of Ministry of Power, Government of India. The calculation and assumptions were verified by the validation team and found to be correct and appropriate.

b) Parameters monitored ex-post

The monitoring of the electrical energy exported to the NEWNE grid will be conducted in accordance with para 24 of AMS I.D. Version 17. The table under para 24 of AMS I.D. requires to monitor the 'Quantity of net electricity supplied to the grid in year y'. The monitoring plan under para 24 of AMS I.D., further stipulates that continuous monitoring, hourly measurement and at least monthly recording is required and the measurement results shall be cross-checked with records of the sold electricity. In line with this, the described monitoring procedure for the net electricity export to the grid has been described in section B.7.1 and B.7.2 of the PDD:

	Parameter	Description/Assessment
1	EG_y	This refers to the 'Net electricity supplied to the NEWNE grid by Project activity**.'** This value will be used for the emission reduction calculations. This parameter will be calculated on a monthly basis. The net electricity generation as provided in certificate for share of electricity generated issued by State Load Dispatch Center (SLDC) will be cross checked with the invoices raised by project participant.

The WTGs of project activity are connected to a sub-station and there is an ABT meter at sub-station where net electricity exported to grid by all WTGs connected to substation is monitored. Every month, recording of the meter reading at substation is taken by state utility. There is also a meter at WTG (yard meter). O&M contractor takes meter reading of the meters at WTG. There is also a main and check meter at sub-station and in case of any defect in ABT meter, reading will be taken from these meters. Based on the meter reading at WTG and substation, Gujarat Energy Development Agency (GEDA) performs apportioning and State Load Dispatch Center (SLDC) issues certificate of share of electricity generated. These share certificates gives net electricity exported by WTGs of each owner separately. These share certificates will form the basis of emission reduction calculations.

Continuous monitoring, hourly measurement and monthly recording will be carried out which is in accordance to the methodology AMS-I.D, version 17 of 03/06/2011. The monitoring plan was verified based on the interaction with project participant, O&M team during the site visit.

Thus the monitoring plan is in compliance with the requirements of the methodology AMS I.D. Version 17.

c) Management System and Quality Assurance

The net electricity supplied to the grid is taken from certificate for share of electricity generated issued by State Load Dispatch Center (SLDC). The accuracy class of the meters at sub-station and WTG is 0.2s

The meters are calibrated by the state utilities once in three year, which is also as per General Guidelines to SSC Methodologies, version 17 (EB 61, Annex 21).

Project participant has mentioned that all the monitored data would be archived electronically regularly throughout the crediting period. Also, data will be archived for a minimum of 2 years after the end of the crediting period or the last issuance of CERs for this project activity, whichever occurs later. The net electricity exported to grid will be cross-checked with electricity sale invoice as required by methodology.The validation team physically assessed the metering and monitoring systems at the WTG site. The meters were checked at the WTG site as well as the substation. The representatives of the O&M team of Suzlon were interviewed to verify the correctness of the procedure mentioned in the PDD. The validation team confirms that the description in the PDD correctly represents the metering system available

at the project activity site and that the defined monitoring plan can be implemented in the context of the project activity.

The operational and management structure along with detailed responsibilities are mentioned in PDD. The responsibilities and authorities of project management, data handling and recording and measurement methods procedure have been systematically described.

URS confirms that the monitoring plan mentioned in the PDD is in accordance with the requirements mentioned in the monitoring methodology and the local regulatory requirements of the state utility. The monitoring arrangements described in the monitoring plan are feasible within the project design. URS is of the opinion that the monitoring plan will give opportunity for real measurement of achieved emissions reductions

Suzlon the O&M service provider has an experience in monitoring and managing the O&M of numerous other wind farm CDM projects. The validation team therefore is of the opinion that the project participant through the O&M agency is capable of implementing the monitoring plan in the context of the project activity.

3.7 Estimation of GHG Emissions

The project activity uses the simplified baseline and monitoring methodology AMS I.D version 17. The applicability conditions of the methodology have been discussed in section 3.4.1 above. The PP has correctly identified the baseline as paragraph 11 of the methodology. This has been described in section 3.4.3 above.

The calculation and formulae as addressed in the approved baseline and monitoring methodology AMS-I.D, version 17, dated 03/06/2011 have been applied.

$ER_y = BE_y - PE_y - LE_y$

The emission reductions ER_y by the project activity during the crediting period is the difference between the baseline emissions BE_y, project emissions PEy and emissions due to leakage LE_y, as following.

Baseline emissions –

The baseline emissions for the project activity have been calculated as the product of the net electricity supplied to NEWNE grid by the project activity and combined margin emission factor of the NEWNE grid. The combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM), has calculated to be 0.9528 tCO_2/MWh, which has been sourced from the Central Electricity Authority (CEA) CO_2 Baseline database version 7.0, in line with the "Tool to calculate the emission factor for an electricity system".

PLF considered in IRR is 20.05% as per PLF report prepared by third party M/s. Vijayant Consultants. The validation team agrees with the PLF as it is in line with Annex 11 of EB 48

Consideration about $EF_{grid,OM,y}$: The simple OM emission factor have been calculated using the Simple OM method as the low-cost/must run resources constitute less than 50% (for year , 2008-09, 2009-10 and 2010-11). The ex-ante vintage data has been used for the OM calculation of the project. The PDD was web-hosted on 07/02/2012 and the latest version of CEA database available was version 7. $EF_{grid,OM,y}$ is calculated as the most recent three years full generation weighted average of the emission factors, consequently the Operating Margin Emission Factor is determined to be 0.9842 tCO2/MWh. The $EF_{grid,OM,y}$ is calculated fixed ex-ante.

Consideration about EF $_{grid, BM,y}$: BM emission factor is calculated ex- ante based on the most recent information available at the time of submission of PP and is fixed for the entire crediting period i.e. year 2010-2011. Consequently the Build Margin emission factor is determined to be 0.8588 tCO2/MWh.

The baseline emission factor is calculated as the average of the operating margin emission factor and the build margin emission factor where the weights W_{OM} and W_{BM}, by default, are 75% W_{OM} and 25% W_{BM} . The combined margin emission factor for NEWNE India has been calculated to be 0.9528 tCO_2/MWh, which is fixed ex-ante for the entire crediting period.

The PP has used official data for OM and BM published by Central Electricity Authority (CEA) CO_2 Baseline database version 7. CEA, (which is an official source of Ministry of Power, Government of India). The validation team accepted the same as this is the latest version of the database available to the project participant at the time of submission of PDD for validation dated 28/09/2011.

Project emissions:

As per the methodology AMS-I.D, the project activity involves grid connected energy generation from renewable power plant. Therefore, there are no project emissions. Also as per methodology AMS-I.D, version 17, there are no project emissions for wind energy projects.

Leakage emissions:

It was verified that the WTGs are new, which was cross checked with the Purchase orders. URS confirms that there is no transfer of equipment from other project activity. Hence, no leakage has been considered for this project activity.

Based on the above consideration, the emissions reductions from the project activity have been determined to be 21,085 tCO2e per year over the selected 10 years fixed crediting period, based on the ex-ante fixed baseline emission factor of 0.9528 tCO2/MWh /12/.

Based on the above assessment, the validation team hereby confirms that:

(a) All assumptions and data used by the project participants are listed in the PDD, including their references and sources;
(b) All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PDD;
(c) All values used in the PDD are considered reasonable in the context of the proposed CDM project activity;
(d) The baseline methodology has been applied correctly to calculate baseline emissions and emission reductions;
(e) All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PDD

URS confirms that the estimates provided in the revised PDD version 10 are reasonable and the project participant has correctly applied the methodology; the calculations are complete and transparent and the data accuracy has been verified.

3.8 Environmental Impacts

No significant adverse environmental impact is expected due to project activity, since the project is a renewable energy (wind energy) project with no project emissions. Furthermore, there is no mandatory legal requirement for carrying out EIA for such wind energy projects in India, which was verified by the EIA notification of MoEF, dated 14/09/2006 /50/ and amendment notification 01/12/2009 /51/.

According to this notification such wind power projects do not require a prior environmental clearance and hence an EIA need not be carried out for this project activity. URS has verified all statutory clearances,

including the commissioning certificate and URS confirms that all the clearances obtained are in accordance with the procedures required by the host party

3.9 Local Stakeholders Consultation

The local stakeholder consultation process has been described in detail, by the PP, in section E of the PDD.

The PP has identified the local villagers residing around the proposed project activity site, the representatives of the village governing body as described in PDD as the stakeholders. Based on the observations of the validation team during the site visit and as per the definition of 'stakeholder' in the Glossary of CDM terms version 5, the identification of stakeholders for consultation was found to be appropriate. Thus, the validation team is of the opinion that the relevant stakeholders have been consulted.

The project participant of the proposed wind power project has conducted stakeholder consultation meetings for the project activity on 24/10/2011 at Rajpara substation, Surendranagar. The Public Notices for the local stakeholder consultation meetings had been published in the local news paper on 19/10/2011 and special invitations were also sent.

The minutes of meeting, attendence sheet and copy of newspaper advertisement, personal invitations were provided to validation team for the stakeholder meeting. During the site visit, validation team conducted interviews with local stakeholders. The local stakeholders appreciated the Project activity. The project has given employment to local people and the local villager viewed the project as contributing to local environmental benefits and social-economy. There were no negative comments from the stakeholders regarding the project activity.

It is also confirmed that local stakeholders were invited by the PPs to comment on the proposed CDM project activity prior to the publication of the PDD on the UNFCCC website. The validation team hereby confirms that the process of local stakeholder consultation is observed to be adequate. URS can confirm that the process is adequate and credible for local stakeholder consultation. Hence, URS confirms that the information in PDD is in accordance with paragraphs 128-130 of VVM.

3.10 Comments by Parties, Stakeholders and NGOs

The PDD version 01 of 05/12/2011/01/ was made publicly available on the CDM UNFCCC website and parties, stakeholders and NGOs through the CDM website http://cdm.unfccc.int/Projects/Validation/DB/D9VHAXX2I81YFHIR2XBPF45SIYGLJ5/view.html) invited to provide comments during a 30 days period from 07/02/2012 to 07/03/2012.

No public comments were received for this project activity during the webhosting period.

4. VALIDATION OPINION

URS verification private limited (URS) has performed validation of the project activity "Wind Energy Project in Gujarat by Enn Enn Corp Limited." in India, with regard to the relevant requirements for CDM.

The review of the project design document and the subsequent follow-up interviews have provided URS with sufficient evidence to determine the fulfillment of the stated criteria.

The host Party is India, which fulfill the participation criteria / requirement and have approved the project and authorized the project participant Enn Enn Corp Limited. The DNA from India confirmed that the project contributes towards achieving sustainable development of the host country.

The project correctly applies the approved baseline and monitoring methodology AMS I. D. version 17 "Grid connected renewable electricity generation", Version 17 of 03/06/2011

By implementation of the 12.6 MW wind power project activity the project results in reduction of CO_2 emissions that are real, measurable and give long-term benefits to the mitigation of climate change. It is demonstrated that the project is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity.

The total emission reductions from the "Wind Energy Project in Gujarat by Enn Enn Corp Limited." are estimated to be on an average 21,085 t CO_2e per year over the selected 10 years fixed crediting period. The emission reduction forecast has been checked and it is deemed likely that the stated amount is achieved given that the underlying assumptions do not change.

The monitoring plan provides for the monitoring of the project's emission reductions. The monitoring arrangements described in the monitoring plan are feasible within the project design and it is URS's opinion that the project participants are able to implement the monitoring plan.

In conclusion, URS is of the opinion that the project activity "Wind Energy Project in Gujarat by Enn Enn Corp Limited." in India, as described in the PDD, version 10 of 01/12/2012, meets all relevant applicable UNFCCC requirements for the CDM and all relevant host Party criteria and correctly applies the baseline and monitoring methodology AMS I. D. "Grid connected renewable electricity generation", Version 17 of 03/06/2011.

URS thus requests registration of the project as a CDM project activity.

APPENDIX – 1

VALIDATION PROTOCOL
FOR CDM PROJECT ACTIVITIES (SSC)

Project Title: Wind Energy Project in Gujarat
By Enn Enn Corp Limited.

Table 1 Participation Requirements for Clean Development Mechanism (CDM) Project Activities (Ref VVM)

Validation Requirement	References	URS Assessment	Conclusion/ CARs/ CLs
All Parties involved have approved the project activity 1.1 Has the DNA of each Party indicated as being involved in the proposed CDM project activity in section A.3 of the provided a written letter of approval which confirms The country is a Party to the Kyoto Protocol Participation is Voluntary In the case of the host Party, the proposed CDM project activity contributes to the sustainable development of the country; Non-Annex 1 Party shall submit a letter of approval It refers to the precise proposed CDM project activity title in the PDD being submitted for registration 1.2 Whether the letter(s) of approval is unconditional with respect to 39 (a) to (d) above. 1.3 Whether the letter(s) of approval has been issued by the respective	Clean Development Mechanism Validation and Verification Manual, Version 1.2 (from this point onward referenced as VVM) Para – 44 to 50 & Para 125 to 127 Paragraph 37 CDM Modalities and procedures	India has ratified the Kyoto protocol on 26th August 2002 and is allowed to participate. http://maindb.unfccc.int/public/country.pl?country=IN PP is requested to submit the host country approval letter for the project activity as per the requirement of para 44 & 45 of VVM ver 1.2.	~~CAR#01~~ OK

Validation Requirement	References	URS Assessment	Conclusion/ CARs/ CLs
Party's DNA and is valid for the proposed project activity under validation. 1.4 Does the project activity assist Parties not included in Annex I to the Convention in achieving sustainable development?			
2. Indicate with which of the project participants listed in the PDD, URS has a contractual relationship for the purpose of this validation activity		There is only one project participant for this project activity i.e. Enn Enn Corp Limited and URS have the validation contractual agreement with it.	*OK*
2.1 Are all of project participants with a contractual relationship listed in the PDD, unless they have provided a letter of voluntary withdrawal from the project activity?	EB 30 Para. 41. EB 50, Annex 48 (para 7 to 9)	There is only one project participant for this project activity i.e. Enn Enn Corp Limited and URS have the validation contractual agreement with it. The name of Enn Enn Corp Limited is listed in section A.3 of the PDD as project participant.	*OK*
2.2 If the project participant(s) listed in the PDD published at international stakeholder[1] consultation are not included in the PDD submitted with request for registration, a letter should be obtained from the withdrawn project participant(s) confirming its voluntary withdrawal from the proposed project activity.	EB 30 Para. 41. EB50 Annex 48 (para 7 to 9)	No, there is only one PP for this project activity which was mentioned in the PDD published for the global stakeholder consultation.	*OK*
3. Parties, stakeholders and UNFCCC accredited NGOs shall have been invited to comment on the validation	VVM Para. 40 to 42	**The PDD of the project activity was made publicly available on UNFCCC website from** 07/02/2012 to 07/03/2012	*OK*

[1] Stakeholders mean the public, including individuals, groups or communities affected, or likely to be affected, by the proposed CDM project activity or actions leading to the implementation of such an activity

Validation Requirement	References	URS Assessment	Conclusion/ CARs/ CLs
requirements for a minimum of 30 days, and the project design document and comments have been made publicly available	Marrakech Accords, CDM Modalities, §40	(http://cdm.unfccc.int/Projects/Validation/DB/D9VHAXX2I81YFHIR2XBPF45SIYGLJ5/view.html) for global stakeholder consultation for period of 30 days. However, no comments were received during the commenting period.	
4. The project design document is in accordance with the latest applicable CDM requirements for completing PDDs.	VVM Para. 55 - 57 Marrakech Accords, CDM Modalities, Appendix B, EB Decisions	This is a small scale renewable energy project. So, the CDM-SSC-PDD form version 3 dated 22/12/2006, which was the latest form available for the completing the PDD under VVM tack has been used.	*OK*
5. Has the PP submitted the MoC as per the latest procedures for completing the MoC between the PP and the executive board?	EB 45, Annex 59 EB 48, Annex 60	The MOC as per the latest procedures for completing the MoC between the PP and the executive board has not been submitted. PP is requested to provide the modalities of the communication for the proposed CDM project activity as per EB 45, Annex 59.	~~*CAR#02*~~ *OK*

Table 2 – Validation Requirements for Clean Development Mechanism (CDM) Project Activities

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
A.1. General Description of Project Activity					
A.1. Project Title					
A.1.1. Does the used project title clearly enable the reader to identify the unique CDM activity?	VVM Para.56 Guidelines for completing a CDM-PDD (PDD) section A.1	/DR/	The title of the project activity is 'Wind Energy Project in Gujarat by Enn Enn Corp Limited.' and it clearly enables the reader to identify it as a unique CDM project activity. No, other project activity was found on UNFCCC with the exactly same name.	OK	OK
A.1.2. Is there an indication of a revision number and the date of the revision?	VVM Para.56 PDD section A.1	/DR/	Yes, the revision number and the date of the PDD have been clearly mentioned in section A.1 of the PDD.	OK	OK
A.2. Description of the Project Activity					
A.2.1. Is the project activity in an existing facilities or utilizing existing equipments? Has the physical site inspection been carried out by the assessment team?	VVM Para. 60	/DR/, /SV/	The project activity is a Greenfield project activity. The physical site visit of the project activity has been carried out by the assessment team on 27th April, 2012.	OK	OK
A.2.2. Does the description of the proposed CDM project activity as contained in the PDD sufficiently cover all relevant elements accurately?	VVM Para.59 PDD section A.2 see also A.4, A.4.3 and B.3	/DR/	1. PP is requested to submit all the statutory clearance and ownership documents of the proposed CDM project activity. 2. PP is requested to provide the reference /source for the technical specifications of the WTGs as mentioned in the table in section A.4.2 of the webhosted PDD. 3. PP is requested to provide the copy of the standards for Wind Turbine Safety	~~CAR#03~~	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
			and Design, Noise level and Mechanical Load as mentioned in section A.4.2 of the PDD. 4. PP is requested to provide an undertaking confirming that no public funding has been used for the proposed CDM project activity as mentioned in section A.4.4 of the PDD. 5. PP is requested to confirm that the proposed CDM project activity is not a debundled component of a large-scale project activity in accordance with EB 54, Annex 3. in section A.4.5 of the webhosted PDD. 6. PP is also requested to mention the name and version of the tools used for the project activity in accordance with the applied baseline and monitoring methodology. 7. The location numbers of the WTGs are not mentioned in the table in section A.4.1.4 of the webhosted PDD. PP is requested to provide the location number of the WTGs in section A.4.1.4 of the webhosted PDD as per the commissioning certificates of the project activity.		
A.2.3. If the proposed CDM project activity involves the alteration of an existing installation or process, has it been ensured that the project description clearly states the differences resulting from the project	VVM Para 63	/DR/	*No, the project activity does not involve the alteration of an existing installation or process.*	OK	OK
A.2.4. Is all information provided consistent and in compliance with the actual situation or planning?	VVM Para 64	/DR/	Yes, all the information provided in the PDD is consistent and in compliance with the actual situation of the project activity.	OK	OK
A.2.5. Is all information provided consistent with details provided in further chapters of the PDD?	VVM Para 64 (b)	/DR/	Yes, all the information provided is consistent with the other sections provided in the further sections of the PDD.	OK	OK
A.3. Project Participants					
A.3.1. Is the table required for	VVM Para 51 –	/DR/	Yes, the table under section A.3 of the PDD required for the indication of project	~~CAR #14~~	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
the indication of project participants correctly applied?	54 PDD section A.3		participants is correctly applied as required by EB 34, Annex 9. 1. The host party identified is in section A.3 of web hosted PDD is not clear Please clarify the same.		
A.3.2. Whether the participation of each project participant has been approved by at least one Party involved, either in a letter of approval or in a separate letter specifically to approve participation?	VVM Para 52 PDD section A.3 Annex 1 of PDD	/DR/	PP is requested to submit the host country approval letter for the project activity as per the requirement of para 44 & 45 of VVM ver 1.2.	~~CAR#01~~	OK
A.3.3. Is all information provided in consistency with details provided by further chapters of the PDD (in particular annex 1)?	VVM Para. 51 Annex 1 of PDD PDD section A.3	/DR/	Yes, all information provided in section A.3 of the PDD in consistency with details is provided by further chapters of the PDD (in particular annex 1).	OK	OK
A.4. Technical Description of the Project Activity					
A.4.1. Does the information provided on the location of the project activity allow for a clear identification of the site(s)?	VVM Para.64 PDD section A.4	/DR/, /SV/	The location numbers of the WTGs are not mentioned in the table in section A.4.1.4 of the webhosted PDD. PP is requested to provide the location number of the WTGs in section A.4.1.4 of the webhosted PDD as per the commissioning certificates of the project activity.	~~CAR#03~~ CAR#03 closed	OK
A.4.2. Are the latitude and longitude of the site indicated in DMS format	PDD section A.4	/DR/	The latitude and the longitude of the project activity have been provided in section A.4.1.4 of the PDD in DMS format.	OK	OK
A.4.3. Does the proposed CDM project activity involve the alteration of existing installations or process?	VVM Para.63 PDD section A.4	/DR/	No, the proposed CDM project activity does not involve the alteration of existing installations or process.	*OK*	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
A.4.4. Do the project participants possess ownership or licenses which will allow the implementation of the project at that site / those sites?	VVM Para.64 PDD section A.4	/DR/	PP is requested to submit all the statutory clearance and ownership documents of the proposed CDM project activity.	~~*CAR#03*~~	OK
A.4.5. Is the category(ies) of the project activity correctly identified?	VVM Para.64 PDD section A.4	/DR/	Category of the project activity is correctly identified.as I.D in the PDD	*OK*	*OK*
A.4.6. Is the type of the project activity correctly identified?	VVM Para.136 PDD section A.4	/DR/	*The project activity is 12.6 MW Wind Power project activity and thus comes under Type – 1 project activity. This has correctly mentioned in section B.1 of the PDD.*	*OK*	*OK*
A.4.7. Is the project activity not a debundled component of a large scale project, if applicable?	VVM Para.136 EB 54, Annex 13 PDD section A.4	/DR/	PP is requested to confirm that the proposed CDM project activity is not a debundled component of a large-scale project activity in accordance with EB 54, Annex 3. in section A.4.5 of the webhosted PDD.	~~*CAR#03*~~	*OK*
A.4.8. Is all information provided in compliance with actual situation or planning as available by the project participants?	VVM Para.64 PDD section A.4 EB 52 Para. 13	/DR/	Yes, the Project activity is of 12.6 MW wind power project activity comprising of 6 WTGs of capacity 2.1 MW each. This has been verified at the time of site visit.	*OK*	*OK*
A.4.9. Is the table required for the indication of projected emission reductions correctly applied and consistent with the ex-ante estimation of emission reductions in section B.6.4 of the PDD?	VVM Para.64 PDD section A.4	/DR/	Yes, the table required for the indication of projected emission reductions is correctly applied in section A.4.3 of the PDD and is inline with the requirement of section A.4.3 of EB 34, Annex 9.	OK	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
A.5. Public Funding					
A.5.1. Does the information on public funding provided conform to the actual situation or planning as presented by the project participants?	PDD section A.4.4	/DR/	In section A.4.4. of the PDD, it has been mentioned that no –public funding has been provided for the project activity. PP is requested to provide an undertaking confirming that no public funding has been used for the proposed CDM project activity as mentioned in section A.4.4 of the PDD.	~~*CAR#03*~~	*OK*
A.5.2. Is all information provided consistent with details provided by further chapters of the PDD (in particular annex 2)?	PDD section A.4.4	/DR/	Annex 2 of PDD says that no public funding has been used in the project activity. The same is consistent with section A.4.4 of the PDD.	OK	OK
A.5.3. In case of public funding from Annex I Parties is it confirmed that such funding does not result in a diversion of official development assistance	PDD section A.4.4	/DR/	PP is requested to provide an undertaking confirming that no public funding has been used for the proposed CDM project activity as mentioned in section A.4.4 of the PDD.	~~*CAR#03*~~	*OK*
B. Baseline and Monitoring Methodology					
B.1. Title and reference of the approved baseline and monitoring methodology applied to the small-scale project activity:					
B.1.1. Is the baseline methodology previously approved by the CDM EB?	VVM Para. 65 PDD section B.1	/DR/	The methodology used is AMS I D version 17 which is an approved methodology and is valid.	OK	OK
B.1.2. Has any specific guidance provided by the CDM Executive Board in respect to the approved methodology been applied?	VVM Para. 69	/DR/	Although there are no specific guidance, However General Guidelines to SSC CDM have been applied, There are guidance provided by the executive board for this methodology which are available at the webpage (http://cdm.unfccc.int/methodologies/DB/RSCTZ8SKT4F7N1CFDXCSA7BDQ7FU1X). All of them have been considered while checking the applicability condition of the methodology to the project activity.	OK	OK
B.2. Justification of the choice of the project category:					

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
B.2.1. Whether the methodology is correctly quoted and applied by comparing it with the actual text of the applicable version of the methodology available on the UNFCCC CDM website	VVM Para. 71	/DR/	1. PP is also requested to mention the name and version of the tools used for the project activity in accordance with the applied baseline and monitoring methodology. Please refer section B 2.2 below	~~CAR#04~~	OK
B.2.2. Is the discussion in the PDD in conformance with all applicability criteria of the applied methodology?	VVM Para. 70 - 76	/DR/	1. The applicability condition in the 2nd row of the table in section B.2 of the webhosted PDD is not completely inline with the applicability condition mentioned in the applied baseline and monitoring methodology AMS I. D. version 17. PP is requested to correct the same. 2. PP is requested to mention the name of the grid in which the generated electricity will be supplied/ injected in the justification for the applicability condition 1 of the baseline and monitoring methodology AMS I. D. version 17 as mentioned in the table in section B.2 of the webhosted PDD. 3. The applicability condition 2 of the methodology AMS I. D. version 17 has not been discussed in the table in section B.2 of the webhosted PDD. PP is requested to discuss the same.	~~CAR#04~~	OK
B.2.3. Is there greenhouse gas emissions occurring within the proposed CDM project activity boundary as a result of the implementation of the proposed CDM project activity which are expected to contribute more than 1% of the overall expected average annual emissions reductions, which are not addressed by the applied methodology?	VVM Para. 77	/DR/	*The project activity is renewable energy based 12.6 MW wind power project. T*here is no greenhouse gas emissions occurring within the proposed CDM project activity boundary as a result of the implementation of the proposed CDM project activity which are expected to contribute more than 1% of the overall expected average annual emissions reductions, which are not addressed by the applied methodology.	OK	OK
B.2.4. Is the project activity conforms with the applicability criteria of the methodology?	VVM Para. 68 - 77	/DR/	The proposed project activity conforms to AMS I.D./Version 17 under sectoral scope – 01 (Energy industries renewable - Non-renewable sources). Please refer section B 2.2 above	OK	OK
B.3. Description of the project boundary:					

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
B.3.1. Does the PDD correctly describe the project boundary, including the physical delineation of the proposed CDM project activity included within the project boundary for the purpose of calculating project and baseline emissions for the proposed CDM project activity?	VVM Para. 78	/DR/, /SV/	The PDD in section B.3 describes the project boundary, including the physical delineation of the proposed CDM project activity. Project boundary description is not mentioned in section B.3 of PDD.	~~CAR #15~~	*OK*
B.3.2. Have all sources and GHGs required by the methodology been included within the project boundary.	VVM Para 79	/DR/	*Yes, the CO_2 gas as GHG emission source has been included for the project activity, which is inline with the requirement of the methodology AMS I. D. Version 17.*	*OK*	*OK*
B.3.3. In case of grid connected electricity projects: Is the relevant grid correctly identified in accordance with the tool to calculate emission factor of electricity system (wherever applicable) and the underlying methodology?	VVM Para.79 PDD section B.3	/DR/, /SV/	The project activity involves generation of electricity by wind mills. The electricity generated is fed into the NEWNE regional grid of India. This grid is identified in accordance with the tool to calculate emission factor of electricity system (version 2.2.1).	*OK*	*OK*
B.3.4. Are the project's geographical boundaries and the project's system boundaries (components and facilities used to mitigate GHGs) clearly defined?	VVM Para 78 - 80	/DR/, /SV/	The project boundary has been described clearly as per para 9 of the selected methodology AMS I D version 17.	*OK*	*OK*
B.4. Details of the baseline and its development:					
B.4.1. Is the baseline for the	PDD Section	/DR/	The baseline has been identified for proposed project activity as per the methodology	*OK*	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
proposed project activity with reference to the chosen project category specified?	B.4		AMS I D version 17 i.e. NEWNE grid and mentioned clearly in the PDD.		
B.4.2. Are the key assumptions, data and rationale used to determine the baseline emissions illustrated in a transparent manner?	PDD Section B.4	/DR/	1. PP is requested to apply the latest available version of tool to calculate the emission factor for an electricity system for the calculation of the emission factor for the project activity. 2. Please provide the source/ weblink for the CO2 Baseline database version 6 as mentioned in section B.6. 1 of the webhosted PDD. 3. Please provide the emission reduction calculation sheet and emission factor calculation sheet for the project activity. 4. Please mention the source/ weblink of the CEA CO2 Baseline Database in the table in section B.6.2 of the PDD. Furthermore, please ensure that the CO2 Baseline Database used for the determination of emission factor of the project activity was the latest data available at the time of PDD provided to the DOE for the validation as per the requirement of 'tool to calculate the emission factor of an electricity system'.	~~*CAR#08*~~ ~~*CAR#08 Closed*~~	*OK*
B.4.3. Does the PDD discuss the identification of the most likely baseline scenario? Does the PDD follow the steps to determine the baseline scenario required by the methodology/ tool and is the methodology consulted on application of the tools?	VVM Para. 82 PDD Section B.4/B.5	/DR/	The baseline has been identified for proposed project activity as per the methodology AMS I D version 17 i.e. NEWNE grid and mentioned clearly in the PDD. Baseline is prescribed by methodlogy for new grid connected power plants and same is mentioned in PDD	*OK*	*OK*
B.4.4. Are all applicable CDM requirements have been taken into	VVM Para 85	/DR/	The baseline of the project activity i.e. electrical grid has been determined in accordance with the para 10 of the applied baseline and monitoring methodology	*OK*	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
account in the identification of the baseline scenario for the proposed CDM project activity, including .relevant national and/or sectoral policies and circumstances.			AMS I. D. Version 17. It is found to be correct.		
B.4.5. Have all plausible alternative scenarios been considered in the identification of the most reasonable baseline scenario as per the methodology?	VVM Para 83	/DR/	The baseline of the project activity i.e. electrical grid has been determined in accordance with the para 10 of the applied baseline and monitoring methodology AMS I. D. Version 17. It is found to be correct.	*OK*	*OK*
B.4.6. Are all scenarios that are considered by the project participants and are supplementary to those required by the methodology, reasonable in the context of the proposed CDM project activity and that no reasonable alternative scenario has been excluded?	VVM Para 83	/DR/	The baseline of the project activity i.e. electrical grid has been determined in accordance with the para 10 of the applied baseline and monitoring methodology AMS I. D. Version 17. It is found to be correct.	*OK*	*OK*
B.4.7. Does the PDD provides a verifiable description of the identified baseline scenario, including a description of the technology that would be employed and/or the activities that would take place in the absence of the proposed CDM project activity.	VVM Para 86	/DR/	The baseline of the project activity i.e. electrical grid has been determined in accordance with the para 10 of the applied baseline and monitoring methodology AMS I. D. Version 17. It is found to be correct.	*OK*	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
B.4.8. Is conservativeness addressed in the way of identifying the baseline?	VVM Para.91 PDD Section B.4/B.5	/DR/	The baseline of the project activity i.e. electrical grid has been determined in accordance with the para 10 of the applied baseline and monitoring methodology AMS I. D. Version 17. It is found to be correct.	*OK*	*OK*
B.4.9. Does the selected baseline represent the most likely scenario among other possible and/or discussed scenarios?	VVM Para 87	/DR/	The baseline of the project activity i.e. electrical grid has been determined in accordance with the para 10 of the applied baseline and monitoring methodology AMS I. D. Version 17. It is found to be correct.	*OK*	*OK*
B.4.10. If the project activity involves the replacement of existing equipment with new equipment or which retrofit existing equipment as part of energy efficiency improvement activities, is the remaining lifetime of the equipment being replaced determined?	VVM Para 136 (b) EB 50, Annex 15	/DR/	No, the project activity is a green field project and it does not involve the replacement of existing equipment with new equipment or retrofit existing equipment as part of energy efficiency improvement activities	*OK*	*OK*
B.5. Additionality					
B.5.1. Does the PDD clearly demonstrate the additionality using the approach as specified in the methodology and by following all the required steps?	VVM Para 137 EB 63, Annex 24 EB 54 report, annex 15 EB 35, Annex 34 VVM Para.67d/95 PDD Section	*/DR/*	Please mention the latest version of Attachment A to Appendix B of the simplified Modalities and Procedures for small-scale project activities in section B.5 of the PDD.	~~*CAR#06*~~	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
	B.1/B.4/B.5				
B.5.2. In case of using the additionality tool: Is the 'Additionality Tool' used in the PDD latest version? If an earlier version has been used, do the changes impact the discussion in the PDD? Are all steps followed in a transparent manner?	VVM Para 94 - 97 Additionality Tool PDD Section B.1/B.4/B.5	/DR/	This is a small scale project activity and so the additionality tool has not been used for the demonstration of the additionality.	OK	OK
B.5.3. Has all information been backed up with references, sources and certification? Is the data presented credible and reliable with complete transparency to all available data and documentation?	VVM Para. 95 PDD Section B	/DR/	1. Please also clarify regarding the default value for expected return on equity calculated after taxes. 2. PP is requested to incorporate transparently all the input values for the calculation of the IRR of the project activity along with the sources of all the input values in section B.5 of the PDD. 1. PP is requested to provide actual debt/equity ratio and copy of loan sanction letter 2. PP is requested to provide copy of O&M letter.	~~*CAR#06 CL#17*~~	*OK*
B.5.4. Is the starting date of the project activity demonstrated as per the latest applicable " Glossary of the Terms"?	VVM Para 99	/DR/	PP is requested to provide the copies of the purchase orders of the project activity to substantiate the start date of the project activity as mentioned in section C.1.1 of the webhosted PDD.	~~*CAR#11*~~	*OK*
B.5.5. Is the discussion on additionality and the evidence provided consistent with the starting date of the project?	VVM Para.102b PDD Section	/DR/	1. Please mention the latest version of Attachment A to Appendix B of the simplified Modalities and Procedures for small-scale project activities in section B.5 of the PDD.	~~CAR#06 &~~ ~~CAR#11~~	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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	B.5		2. Please also mention that the default value for expected return on equity calculated after taxes is for the country India. 3. PP is requested to incorporate transparently all the input values for the calculation of the IRR of the project activity along with the sources of all the input values in section B.5 of the PDD. 4. PP is requested to explain whether all the input values used for the calculation of the IRR of the project activity were available and applicable at the time of investment decision taken for the implementation of the project activity. 5. PP is requested to provide the detailed IRR calculation sheet of the project activity in excel format. PP is requested to provide the copies of the purchase orders of the project activity to substantiate the start date of the project activity as mentioned in section C.1.1 of the webhosted PDD.		
B.5.6. Is the start date of the project activity prior to 2nd August, 2008? Is the prior CDM consideration demonstrated as per latest applicable guidelines for prior CDM consideration?	VVM Para. 100 – 102 EB 62, Annex 13	/DR/	As per the webhosted PDD, the starting date of the project activity is 20/04/2011, which is after 2nd August, 2008. 1. PP is requested to provide the evidences for all the milestones achieved for the prior CDM consideration for the proposed CDM project activity as mentioned in section B.5 of the PDD and in accordance with the requirement of EB 62, Annex 13.	~~CAR#07~~	OK
B.5.7. For an existing project activity, for which the start date is prior to the date of publication of the PDD for global stakeholder	VVM Para 102 EB 62, Annex 13	/DR/	1. PP is requested to provide the evidences for all the milestones achieved for the prior CDM consideration for the proposed CDM project activity as mentioned in section B.5 of the PDD and in accordance with the requirement of EB 62, Annex 13.	~~CAR#07~~	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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consultation, has the evidences submitted to indicate the awareness of the CDM prior to the project activity start date, and that the benefits of the CDM were a decisive factor in the decision to proceed with the project?					
B.5.8. For an existing project activity, for which the start date is prior to the date of publication of the PDD for global stakeholder consultation, have the evidences provided to indicate that continuing and real actions were taken to secure CDM status for the project in parallel with its implementation?	VVM Para 102 (b) EB 62, Annex 13	/DR/	1. PP is requested to provide the evidences for all the milestones achieved for the prior CDM consideration for the proposed CDM project activity as mentioned in section B.5 of the PDD and in accordance with the requirement of EB 62, Annex 13.	~~CAR#07~~	OK
B.5.9. Is the start date of the project activity from or after 2nd August, 2008?	VVM Para 100 EB 62, Annex 13	/DR/	No, the start date of the project activity is not prior to 2nd August, 2008. Start date is after 2nd August 2008.	OK	OK
B.5.10. If the start date of the project activity is on or after 2nd August, 2008, had the PPs informed the host Party DNA and the UNFCCC secretariat in writing of the commencement of the project activity and of their intention to seek CDM status within six months from the start date of the project activity?	VVM Para 101 EB 62, Annex 13	/DR/	The start date of the project activity is after 2nd August, 2008. Please refer section B 5.6 above	~~CAR#07~~	OK
B.5.11. Are the credible alternatives to the project activity in order to	VVM Para 105	/DR/	The project activity is supplying the electricity to the NEWNE grid of India, thus the baseline of the project activity is the Grid as per para 10 of the applied baseline and	OK	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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determine the most realistic baseline scenario, unless the approved methodology that is selected by the proposed CDM project activity prescribes the baseline scenario and no further analysis is required, identified?			monitoring methodology AMS I. D. Version 17.		
B.5.12. If an investment analysis has been used, has it been demonstrated that the proposed project activity is economically or financially less attractive than at least one other alternative without the revenue from the sale of CERs?	VVM Para 108 - 109 PDD Section B.5	/DR/	The investment analysis of the project activity has been conducted by using the benchmark analysis and not by the cost comparison analysis.	OK	OK
B.5.13. Has the investment analysis been carried out by using the latest version of the "Guidelines on the Assessment of Investment Analysis" and with other relevant guidance including the latest "Guidelines for the reporting and validation of plant load factors"?	VVM Para 110 EB 62, Annex 5	/DR/	Yes, the investment analysis has been conducted using the latest version 5 of the 'Guidelines on the Assessment of Investment Analysis, EB 62, Annex 5' and the latest 'Guidelines for the reporting and validation of plant load factors' EB 48, Annex 11.	*OK*	*OK*
B.5.14. Is the investment analysis rely on values from Feasibility Study Reports (FSR)28 that are approved by national authorities for proposed CDM project activities?	VVM Para 113	/DR/	No, the feasibility study report has not been used for the input values for the investment analysis.	*OK*	*OK*
B.5.15. If a benchmark is used, is it ensured that it is selected in	VVM Para. 110 PDD Section	/DR/	The project activity belongs to sectoral scope 1 and thus as per para 5, page 7 of EB 62, Annex 5 it falls under Group 1. The default value of expected return on equity of		*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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accordance with the requirements of the tool /methodology and it represents standard returns in the market (not linked to the subjective profitability expectation or risk profile of a particular project developer).	B.5		11.75 for India has been considered as per para 8, page 7 of the EB 62, Annex 5. However, the benchmark under para 8, page 7 of EB 62, Annex 5, is provided in the real terms however the financial analysis of the project activity is conducted on the nominal terms. Thus, the PP is requested to convert the real term into the nominal term as per the requirement of para 7, page 7, EB 62, Annex 5.	~~*CAR#06*~~	
B.5.16. If a barrier analysis has been used, has it been shown that the proposed project activity faces barriers that prevent the implementation of this type of proposed project activity but would not have prevented the implementation of at least one of the alternatives?	VVM Para. 115 -117 PDD Section B.5 EB50, Annex 13	/DR/	No, barrier analysis has not been used for the demonstration of additionality of this project activity.	*OK*	*OK*
B.5.17. If a barrier analysis has been used have the 'guidelines for objective demonstration and assessment of barriers' been followed? Have all applicable steps been considered and substantiated with objective evidences?	VVM Para 116 EB 50 Annex 13	/DR/	No, barrier analysis has not been used for the demonstration of additionality of this project activity.	*OK*	*OK*
B.5.18. If the barrier analysis has been used, has it been demonstrated that the barriers are	VVM Para 117 (a) & 117 (b)	/DR/	No, barrier analysis has not been used for the demonstration of additionality of this project activity.	*OK*	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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real and that the barriers prevent the implementation of the project activity but not the implementation of at least one of the possible alternatives?	EB 50 Annex 13				
B.5.19. Is the discussion on additionality consistent with the identification of all plausible and credible baseline scenarios?	VVM Para. 105 PDD Section B.5	/DR/	The baseline of the project activity has been determined as grid as per the para 10 of the applied methodology AMS I. D. Version 17 and the discussion on additionality of the project activity is consistent with the identified baseline scenario.	*OK*	*OK*
B.5.20. Do the identified baseline scenarios include technologies and practices that include outputs or services comparable with the proposed CDM project activity? Do they also abide by the same applicable laws and legislations?	VVM Para. 105 PDD Section A.4.2/B.5	/DR/	The baseline of the project activity has been determined as 'grid' as per para 10 of the applied baseline and monitoring methodology AMS I. D. Version 17 and it abide by the same applicable laws and legislations.	*OK*	*OK*
B.5.21. Is the additionality of the project activity justified as first-of-its-kind project?	VVM Para 119 EB 63, Annex 11	/DR/	No, the additionality of the project activity is not justified as first-of-its-kind project.	*OK*	*OK*
B.5.22. Has it been demonstrated adequately that the project activity is not a common practice?	VVM Para 119 -121 EB 65, Annex 21	/DR/	This is a small scale project activity, so common practice analysis of the project activity is not required as per attachment A to Appendix B.	*OK*	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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B.5.23. What are the key distinctions between the project activity and any similar projects that are widely used as common practice?	VVM Para 120 EB 65, Annex 21 PDD Section B.5	/DR/	This is a small scale project activity, so common practice analysis of the project activity is not required as per attachment A to Appendix B.	*OK*	*OK*
B.6. Algorithms and/or formulae used to determine emission reductions					
B.6.1. Are the steps taken and equations applied to calculate emission reductions comply with the requirements of the selected baseline and monitoring methodology?	VVM Para 89 PDD Section B.6.1 to B.7.1	/DR/	*The emission reductions of the project activity has been calculated by using the formula* $BE_y = EG_{BL,y} * EF_{CO_2,grid,y}$ provided in para 11 of the applied baseline and monitoring methodology AMS I. D. version 17. 1. Complete steps for calculating emission factor are not mentioned in PDD. 2. Emission reductions are not mentioned correctly in section B 6.3 of PDD 3. Years mentioned in tables in Section 6.4 are not consistent with table provided in section section A.3	~~CAR #16~~	*OK*
B.6.2. Are the equations and parameters in the PDD have been correctly applied as per those provided in the selected approved methodology?	VVM Para 90 PDD Section B.6.1 to B.7.1	/DR/	*Yes,* the equations and parameters in the PDD have been correctly applied as per those provided in the selected approved methodology AMS I. D. Version 17.	*OK*	*OK*
B.6.3. Are the steps and equations applied to calculate baseline emissions in compliance with the requirements of selected baseline and monitoring methodology?	VVM Para 89 PDD Section B.6.1 to B.7.1	/DR/	Yes, the steps and equations applied to calculate baseline emissions are in compliance with the requirements of selected baseline and monitoring methodology AMS I. D. Version 17.	*OK*	*OK*
B.6.4. Are the steps and equations	VVM Para 89	/DR/	Since, the project activity is a renewable energy based project i.e. wind and it does	*OK*	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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applied to calculate project emissions in compliance with the requirements of selected baseline and monitoring methodology?	PDD Section B.6.1 to B.7.1)		not utilize any fossil fuel for onsite consumption, thus the project emissions have been considered as zero, which is in accordance with para 20 and para 21 of the baseline and monitoring methodology AMS I. D. Version 17.		
B.6.5. Are the steps and equations applied to calculate leakages in compliance with the requirements of selected baseline and monitoring methodology?	VVM Para 89 PDD Section B.6.1 to B.7.1)	/DR/	*Since the* energy generating equipment is not transferred from another activity, so no leakage has been considered for this project activity.	*OK*	*OK*
B.6.6. If the methodology provides for selection between different options for equations or parameters, the DOE has it been confirmed that adequate justification has been provided and that the correct equations and parameters have been used, in accordance with the methodology selected?	VVM Para 90 PDD Section B.6.1 to B.7.1)	/DR/	*The baseline emission reductions of the project activity has been calculated by using the formula* $BE_y = EG_{BL,y} * EF_{CO_2,grid,y}$ provided in para 11 of the applied baseline and monitoring methodology AMS I. D. version 17.	*OK*	*OK*
B.6.7. Are uncertainties in the GHG emissions estimates properly addressed in the documentation?	VVM Para 7 PDD Sections B.5	/DR/	1. PP is requested to apply the latest available version of tool to calculate the emission factor for an electricity system for the calculation of the emission factor for the project activity. 2. Please provide the source/ weblink for the CO2 Baseline database version 6 as mentioned in section B.6. 1 of the webhosted PDD. 3. Please provide the emission reduction calculation sheet and emission factor calculation sheet for the project activity.	~~*CAR#08*~~	*OK*
B.6.8. Are all assumptions and data	VVM Para 92	/DR/	Please refer section B 6.7 above	~~*CAR#08*~~	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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used by the project participants listed in the PDD, including their references and sources?					
B.6.9. Is the vintage of the baseline data correct?	PDD Section B.6.3/B.6.4	/DR/	Please mention the source/ weblink of the CEA CO2 Baseline Database in the table in section B.6.2 of the PDD. Furthermore, please ensure that the CO2 Baseline Database used for the determination of emission factor of the project activity was the latest data available at the time of PDD provided to the DOE for the validation as per the requirement of 'tool to calculate the emission factor of an electricity system'.	~~*CAR#08*~~	*OK*
B.6.10. Are data and parameters that are not being monitored and remained fixed throughout the crediting period appropriately assessed, correct, and will they result in conservative estimates?	PDD Section B.6.3/B.6.4	/DR/	Please refer section B 6.9 above	~~*CAR#08*~~	*OK*
B.6.11. Are all documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PDD?	VVM Para 92	/DR/	1. PP is requested to apply the latest available version of tool to calculate the emission factor for an electricity system for the calculation of the emission factor for the project activity. 2. Please provide the source/ weblink for the CO2 Baseline database version 6 as mentioned in section B.6. 1 of the webhosted PDD. 3. Please mention the source/ weblink of the CEA CO2 Baseline Database in the table in section B.6.2 of the PDD. Furthermore, please ensure that the CO2 Baseline Database used for the determination of emission factor of the project activity was the latest data available at the time of PDD provided to the DOE for the validation as per the requirement of 'tool to calculate the emission factor of an electricity system'.	~~*CAR#08*~~	*OK*
B.6.12. Are all values used in the PDD correct in the context of the	VVM Para 92	/DR/	Please refer section B 6.11 above.	~~*CAR#08*~~	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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proposed CDM project activity;					
B.6.13. Can estimates of the baseline emissions be replicated using the data and parameter values provided in the PDD?	VVM Para 92	/DR/	1. Please provide the emission reduction calculation sheet and emission factor calculation sheet for the project activity.	~~*CAR#08*~~	*OK*
B.6.14. Is the plant load factor defined ex-ante in the PDD according to one of the following three options: (a) The plant load factor provided to banks and/or equity financiers while applying the project activity for project financing, or to the government while applying the project activity for implementation approval; (b) The plant load factor determined by a third party contracted by the project participants (e.g. an engineering company);	EB 48, Annex 11	/DR/	The plant factor of 20.05% has been taken for the project activity as per the third party (Vijayant Consultants Management and Project Consultants) PLF determination report dated April, 2011. The third party was contracted by the Enn Enn Corp Limited, the PP. Thus, the PLF of the project activity is found to be in accordance with para 3 (b) of EB 48, Annex 11.	*OK*	*OK*
B.6.15. Is sampling procedures applied for any of the monitoring parameters?	VVM Para 136 (b) EB 65, Annex 2 EB 67, Annex 6	/DR/	No, the sampling procedure has not been applied for this project activity.	*OK*	*OK*
B.7. Application of a monitoring methodology and description of the monitoring plan					
B.7.1. Is the monitoring plan	VVM Para 123	/DR/.	1. As per the project boundary diagram mentioned in section B.3 of the	~~*CAR#09*~~	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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complies with the requirement of the applied methodology/ tools?	(a) 91/67c PDD Section B.7.1 – B.7.2	/SV/	webhosted PDD and during the site visit of the project activity it was noted that other WTGs which are not part this proposed CDM project activity are connected to the same substation meter. So, PP is requested to provide a proper apportioning procedure for the measurement of the electricity generated by the proposed CDM project activity in the PDD and to revise the monitoring plan accordingly. 2. PP is also requested to provide the supporting document for the apportioning procedure applied to monitor the net electricity exported to the grid by the proposed CDM project activity. 3. During the site visit of the project activity it was also noted that one 'ABT meter' was also installed along with the main meter and the check meter at the substation. PP is requested to clarify what exactly the ABT meter is and why it has been installed and please provide the suitable evidences to support the same.		
B.7.2. Is the implementation of monitoring plan feasible within the project design?	VVM Para 123 (b)	/DR/. /SV/	The monitoring of the project activity requires the installation of the energy meters at the substation and at the particular WTGs, which is feasible within the project boundary.	*OK*	*OK*
B.7.3. Are the means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures, sufficient to ensure that the emission reductions achieved by/ resulting from the proposed CDM project activity can be reported ex post and verified?	VVM Para 123 (b)	/DR/. /SV/	The monitoring data will be archived electronically for a period of 2 years after crediting period of last issuance whichever is later and the net electricity exported to the grid will be further verified with the sales of receipt, thus the means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures are sufficient to ensure that the emission reductions achieved by/ resulting from the proposed CDM project activity can be reported ex post and verified.	*OK*	*OK*
B.7.4. Is the monitoring plan in section B.7.1 consistent with	PDD Section B.7.1/ B.7.2/	/DR/. /SV/	Please refer section B7.3 above	*CAR#09*	

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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background information provided in Annex 4 of the PDD?	Annex 4				
B.7.5. Does the monitoring plan demonstrate the completeness and accuracy of the claims and conservativeness of the assumptions made in the PDD?	VVM Para 30	/DR/. /SV/	1. As per the project boundary diagram mentioned in section B.3 of the webhosted PDD and during the site visit of the project activity it was noted that other WTGs which are not part this proposed CDM project activity are connected to the same substation meter. So, PP is requested to provide a proper apportioning procedure for the measurement of the electricity generated by the proposed CDM project activity in the PDD and to revise the monitoring plan accordingly. 2. PP is also requested to provide the supporting document for the apportioning procedure applied to monitor the net electricity exported to the grid by the proposed CDM project activity.	*CAR#09*	
B.7.6. Is the information given for each monitoring variable by the presented table sufficient to ensure the delivery of high quality data free of potential for biases or intended or unintended changes in data records?	PDD Section B.6.2-B.7.1	/DR/. /SV/	The monitoring procedure provided in section B.7.1 of the PDD is not inline with the requirement of para 24 (point 5) of the applied methodology AMS I. D. version 17, which requires the monitoring plan to be of continuous monitoring, hourly measurement and at least monthly recording. Furthermore, please ensure that the monitoring plan in section B.7.1 of the PDD complies with requirement of para 17 of EB 61, Annex 21.	~~*CAR#09*~~	*OK*
B.7.7. Does the monitoring plan provide information on monitoring equipment and respective location in order to safeguard a proper installation?	VVM Para 123 (a)	/DR/. /SV/	The main meters and the back up meters are installed at the feeder at the substation and the controller meters are installed at each of the WTGs. The feeder is a common metering point for the WTGs including the WTGs which are not part of this project activity. Thus, the monitoring plan provide information on monitoring equipment and respective location in order to safeguard a proper installation	*OK*	*OK*
B.7.8. Are procedures identified for calibration of monitoring equipment?	VVM Para 123 (a) EB 61Annex	/DR/. /SV/	The monitoring procedure provided in section B.7.1 of the PDD has been made inline with the requirement of para 24 (point 5) of the applied methodology AMS I. D. version 17, which requires the monitoring plan to be of continuous monitoring, hourly measurement and at least monthly recording. However, PP is also requested to	~~*CAR#09*~~	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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	21		amend the monitoring plan in section B.7 to be inline with the requirement of para 14 of EB 66, Annex 23 and para 97 of EB 65, Annex 5.		
B.7.9. Is the monitoring approach in line with current good practice, i.e. will it deliver data in a reliable and reasonably acceptable accuracy?	PDD Section B.5-B.7.2	/DR/. /SV/	1. As per the project boundary diagram mentioned in section B.3 of the webhosted PDD and during the site visit of the project activity it was noted that other WTGs which are not part this proposed CDM project activity are connected to the same substation meter. So, PP is requested to provide a proper apportioning procedure for the measurement of the electricity generated by the proposed CDM project activity in the PDD and to revise the monitoring plan accordingly. 2. PP is also requested to provide the supporting document for the apportioning procedure applied to monitor the net electricity exported to the grid by the proposed CDM project activity.	~~*CAR#09*~~	*OK*
B.8. Operational and Management Structure					
B.8.1. Is the authority and responsibility of project management clearly described?	PDD Section B.7.2/ Annex 4	/DR/. /SV/	Yes, the authority and the responsibility of project management clearly described in section B.7.2 of the PDD.	OK	OK
B.8.2. Is the authority and responsibility for registration, monitoring, measurement and reporting clearly described?	PDD Section B.7.2/ Annex 4	/DR/. /SV/	Yes, the authority and responsibility for registration, monitoring, measurement and reporting is clearly described in section B.7.2 of the PDD.	OK	OK
B.8.3. Are procedures identified for training of monitoring personnel?	PDD Section B.7.2/Annex 4	/DR/. /SV/	The monitoring of the project activity will be done by the trained personnel of Suzlon. The O & M contract will be signed for the same. PP is requested to provide the copy of Operations and Maintenance Agreement signed between Suzlon & EECL as mentioned in section B.7.2 of the webhosted PDD.	~~CAR#10~~	OK
B.8.4. Does the monitoring plan reflect good monitoring practice appropriate to the type of project	PDD Section B.7.2/Annex 4	/DR/. /SV/	Yes, the monitoring plan reflect good monitoring practice appropriate to the type of project activity.	OK	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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activity?					
B.8.5. Is the contact information of the persons(s)/entity(ies) responsible for the application of the baseline and monitoring methodology to the project activity provided?	PDD Section B.8	/DR/. /SV/	Yes, the contact information of the persons(s)/entity(ies) responsible for the application of the baseline and monitoring methodology to the project activity has been provided in section B.8 of the PDD.	OK	OK
B.8.6. Has it been indicated if the person/entity is also a project participant listed in Annex 1?	PDD Section B.8	/DR/	The person indicated in section B.8 of the PDD is Mr. Abhishek N. Shah, Director, Enn Enn Corp Limited and the entity is also the project participant for this project activity. The same has been indicated in section B.8 of the PDD.	OK	OK
B.9. Date of completion of the application of the baseline and monitoring methodology					
B.9.1 Is there any indication of a date when determining the baseline?	PDD Section B.8/Annex 3	/DR/	Yes, 15/10/2011 has been indicated in section B.8 of the PDD as a date when the baseline has been determined.	OK	OK
B.9.2. Is this consistent with the time line of the PDD history?	Also see revision history of the PDD	/DR/	The date of the of the webhosted PDD is 05/12/2011, thus the above date i.e. 15/10/2011 is consistent with the time line of the PDD history.	OK	OK
B.9.3. Is all required data provided in a complete manner in annex 3 of the PDD?	PDD Annex 3	/DR/	The description of the baseline determination has been provided in section B.4 of the PDD. However, no further information has been provided in Annex 3 of the PDD.	OK	OK
C. Duration of the project activity / Crediting period:					
C.1. Are the project's starting date and expected operational lifetime clearly defined and reasonable?	VVM Para 99 PDD Section C.1.1/C.1.2	/DR/	1. PP is requested to provide the copies of the purchase orders of the project activity to substantiate the start date of the project activity as mentioned in section C.1.1 of the webhosted PDD. 2. PP is requested to provide evidences to substantiate the expected operational life of the project activity as mentioned in section C.1.2 of the webhosted PDD.	~~*CAR#11*~~	*OK*

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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C.2. Is the assumed crediting period clearly defined and reasonable (renewable crediting period of max 7 years with potential for 2 renewals or fixed crediting period of max. 10 years)?	PDD Section C.2	/DR/	The assumed fixed crediting period of 10 years has been clearly described in in section C.2.2.2 of the PDD.	*OK*	*OK*
C.3. Does the project's operational lifetime exceed the crediting period	PDD Section C.1.2/C.2.1./ C.2.1./C.2.1.1./ C.2.1.2.	/DR/	The expected operational life time of the project activity is 20 years as per section C.1.2 of the webhosted PDD, which is more than the crediting period of the project activity.	*OK*	*OK*
C.4. Does the start date indicate whether this is a new project activity or a pre-existing project activity?	PDD Section C.1.1/C.2.1.1	/DR/	The start date of the project activity is 20/04/2011, which indicates that the project activity is a new project.	OK	OK
D. Environmental Impacts					
D.1. Has an analysis of the environmental impacts of the project activity been sufficiently described?	VVM Para. 131 PDD section D	/DR/	PP has used the Ministry of Environment and Forests (MoEF), Government of India notification dated September 14th, 2006 regarding the requirement of EIA studies as per the Environment Protection Rule, 1986 (MoEF, 2002). However, the PP is requested to provide the reference of the latest notification issued by Govt. of India for the requirement of the EIA clearance of the project activities.	~~CAR#13~~	OK
D.2. Are there any Host Party requirements for an Environmental Impact Assessment (EIA), and if yes, is the project an EIA approved?	VVM Para. 131 PDD section D	/DR/	This is wind power project activity and so as per Ministry of Environment and Forests (MoEF), Government of India notification dated September 14th, 2006 regarding the requirement of EIA studies as per the Environment Protection Rule, 1986 (MoEF, 2002), it does not require to conduct the EIA.	OK	OK
D.3. Will the project create any adverse environmental effects?	VVM Para. 131 PDD section D	/DR/	This is a renewable energy project based on wind energy, which is clean and does not create any GHG emissions. Thus, the project activity does not create any adverse environmental effects.	OK	OK
D.4. Are trans-boundary	VVM Para.	/DR/	Not applicable since an EIA is not required for the project activity.	OK	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
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environmental impacts considered in the analysis?	131 PDD section D				
D.5. Have identified environmental impacts been addressed in the project design?	VVM Para. 131 PDD section D	/DR/	Not applicable since an EIA is not required for the project activity.	OK	OK
D.6. Does the project comply with environmental legislation in the host country?	VVM Para. 131 PDD section D	/DR/	Yes, the project activity comply with the environmental legislation of the host country i. e. Ministry of Environment and Forests (MoEF), Government of India notification dated September 14th, 2006.	OK	OK
E. Stakeholders' Comments:					
E.1. Have local stakeholders been invited by the PPs to comment on the proposed CDM project activity prior to the publication of the PDD on the UNFCCC website?	VVM Para 128 PDD Section E.1	/DR/	Yes, as per the section E.1 of the PDD the local stakeholder consultation was conducted on 24th October 2011 at Rajpara substation, Surendranagar.	OK	OK
E.2. Have appropriate media been used to invite comments by local stakeholders?	VVM Para 128 -129 PDD Section E.1	/DR/	1. PP is requested to provide the copies of the public notices and the invitation letters sent to invite the local stakeholders. 2. PP is requested to provide the copy of the minutes of meeting of the local stakeholder consultation as mentioned in section E.1 of the PDD.	~~CAR#12~~	OK
E.3. Is the undertaken stakeholder process described in a complete and transparent manner?	VVM Para 129 (a) PDD Section E.1	/DR/	1. PP is requested to provide the copies of the public notices and the invitation letters sent to invite the local stakeholders. 2. PP is requested to provide the copy of the minutes of meeting of the local stakeholder consultation as mentioned in section E.1 of the PDD.	~~CAR#12~~	OK
E.4. Is a summary of the received stakeholder comments provided?	VVM Para.	/DR/	1. PP is requested to provide the copies of the public notices and the invitation letters sent to invite the local stakeholders.	~~CAR#12~~	OK

Validation Requirement	Reference	MoV*	URS Assessment	Conclusion/ CARs/ CLs	
				Draft	Final
	129 (b) PDD Section E.2		2. PP is requested to provide the copy of the minutes of meeting of the local stakeholder consultation as mentioned in section E.1 of the PDD.		
E.5. Has due account been taken of any stakeholder comments received?	VVM Para. 129 (c) PDD Section E.3	/DR/	1. PP is requested to provide the copies of the public notices and the invitation letters sent to invite the local stakeholders. 2. PP is requested to provide the copy of the minutes of meeting of the local stakeholder consultation as mentioned in section E.1 of the PDD.	~~CAR#12~~	OK

Table 3 - Resolution of Corrective Action Requests and Clarification:

Summary of Findings	CAR	CL	FAR
	15	2	0

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#01	**Reference**	VVM Ver. 1.2
Details of the Finding:		30-04-2012			
PP is requested to submit the host country approval letter for the project activity as per the requirement of para 44 & 45 of VVM ver 1.2.					
Project Participant Response		04/05/2012			
Host Country Approval could not be obtained. But it is expected to come soon and then it will be sent.					
Documents/ information provided by the Project Participant:					
(List of the evidences/ documents provided by Project participant)					
Evidences verified by Lead Assessor/ Assessor:					
(List of the evidences/ documents verified by Lead Assessor/ Assessor)					
Reasoning for acceptance or non-acceptance:		25/05/2012			
The host country approval letter is awaited. Hence, the CAR#01 is still open.					
Project Participant Response		21/07/2012			
Host Country Approval could not be obtained. But it is expected to come soon and then it will be sent.					
Documents/ information provided by the Project Participant:					
Reasoning for acceptance or non-acceptance:		30/07/2012			
The host country approval letter is awaited. Hence, the CAR#01 is still open.					
Project Participant Response		24/09/2012			
The HCA has been obtained and submitted.					

Documents/ information provided by the Project Participant:	
Host Country Approval dated 14/09/2012	
Reasoning for acceptance or non-acceptance:	01/12/2012
PP has submitted the host country approval of the project activity. CAR has been opened due to ITR comments The information provided in HCA is not consistent with information provided in section A 4.1.3 of PDD. Please clarify the same.	
Project Participant Response	01/12/2012
There was typographical error in HCA. The same was communicated to DNA with all the supporting documents. DNA has issed the revised HCA and talukas name is correctly mentioned in revised host country approval.	
Documents/information provided by the Project participant.	
Revised Host country approval.	
Reason for acceptance or non-acceptance	01/12/2012
Ok, Revised host country approval letter has been provided by PP. The talukas name have been corrected in revised HCA and they are in line with commissioning certificate. The HCA is consistent with information in section A 4.1.3 of PDD. The letter of approval confirms that Government of India has ratified the Kyoto Protocol and the HCA is an approval of voluntary participation in the proposed CDM project activity. Also the project contributes to Sustainable Development in India. The HCA refers to the precise proposed CDM project activity title as mentioned in the PDD being submitted for registration The HCA is in line with para 45-48 of VVM ver 1.2, hence CAR #1 has been closed	
Close out by Lead Assessor	01/12/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#02	**Reference**	EB 45, Annex 59
Details of the Finding:	30-04-2012				
PP is requested to provide the modalities of the communication for the proposed CDM project activity as per EB 45, Annex 59.					
Project Participant Response:	04/05/2012				
Modalities of the communication for the proposed CDM project activity as per EB 45, Annex 59.is provided now.					
Documents/ information provided by the Project Participant:					
1. Signed MoC					
Evidences verified by Lead Assessor/ Assessor:					
1. Signed MoC dated 16/05/2012					
Reasoning for acceptance or non-acceptance:	25/05/2012				
PP has provided the modalities of communication in version 2.0 of the MOC form. However, the project activity will be submitted for registration under VVM track and hence the PP is requested to use the previous version 1.4 for the Modalities of Communication. Hence, the CAR#02 is still open.					
Project Participant Response	18/06/2012				
MoC in the version 1.4 is submitted now.					
Documents/ information provided by the Project Participant:					
Modalities of communication dated 09/06/2012					
Reasoning for acceptance or non-acceptance:	25/06/2012				
OK, PP has submitted the Modalities of the communications dated 09/06/2012. However, the dates are not consistent on page 1 and page 3 of the MOC. Furthermore the dates on page 1 and page 4 of the MOC are not legible. Kindly submit the revised MOC form. The CAR#02 is still open.					
	14/07/2012				
MoC in the version 1.4 is submitted now. And also the dates are matching now.					
Documents/ information provided by the Project Participant:					
Modalities of communication dated 13/07/2012					
Reasoning for acceptance or non-acceptance:	30/07/2012				
Ok, PP has provided the Modalities of Communication dated 13/07/2012.MOC has been filled in correctly and it uses the latest MOC form available on UNFCCC for VVM track. This has been found to be appropriate and hence the CAR#02 has been closed.					
Close out by Lead Assessor	30/07/2012				

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#03	**Reference**	EB 34, Annex 9 & EB 54, Annex 3

Details of the Finding:	30-04-2012

1. PP is requested to submit all the statutory clearance and ownership documents of the proposed CDM project activity.
2. PP is requested to provide the reference /source for the technical specifications of the WTGs as mentioned in the table in section A.4.2 of the webhosted PDD.
3. PP is requested to provide the copy of the standards for Wind Turbine Safety and Design, Noise level and Mechanical Load as mentioned in section A.4.2 of the PDD.
4. PP is requested to provide an undertaking confirming that no public funding has been used for the proposed CDM project activity as mentioned in section A.4.4 of the PDD.
5. PP is requested to confirm that the proposed CDM project activity is not a debundled component of a large-scale project activity in accordance with EB 54, Annex 3. in section A.4.5 of the webhosted PDD.
6. PP is also requested to mention the name and version of the tools used for the project activity in accordance with the applied baseline and monitoring methodology.
7. The location numbers of the WTGs are not mentioned in the table in section A.4.1.4 of the webhosted PDD. PP is requested to provide the location number of the WTGs in section A.4.1.4 of the webhosted PDD as per the commissioning certificates of the project activity.

Project Participant Response	21/05/2012

1. All the documents such as evacuation permission and power purchase agreements and commissioning certificates are submitted now.
2. A document on technical specification is provided now.
3. The portion on “Wind Turbine Safety and Design, Noise level and Mechanical Load” is removed now from section A.4.2 of the PDD.
4. Undertaking confirming that no public funding has been used for the proposed CDM project activity is provided now.
5. It is confirmed in the section A.4.5
6. Applicable tool is mentioned in section B.1
7. Location numbers are now mentioned.

Documents/ information provided by the Project Participant:

1. Evacuation permission
2. Commissioning certificates.
3. PPA
4. Technical specification sheet.

Evidences verified by Lead Assessor/ Assessor:

1. Evacuation permission
2. Commissioning certificates.
3. PPA
4. Technical specification sheet.

Reasoning for acceptance or non-acceptance:	01/06/2012

1. PP has submitted the commissioning certificates for all the WTGs and the power evacuation permits issued to the technology supplier M/s. Suzlon Power Infrastructure Pvt. Ltd. Dated 16/12/2009 and 16/11/2010. However, the PPA for the WTG no. JSD 51 has not been submitted. PP is requested to submit the same. Open
2. The reference /source for the technical specifications of the WTGs as mentioned in the table in section A.4.2 have not been provided in section A.4.2 of the PDD. PP is requested to provide the same. Furthermore, PP has provided a documentary evidence for the technical specifications, however all the technical specifications in the PDD are not inline with technical specifications provided in the PDD. Please correct appropriately. Open.
3. OK, PP has removed the portion on "Wind Turbine Safety and Design, Noise level and Mechanical Load" is removed now from section A.4.2 of the PDD , which is accepted and hence this issue has been closed.
4. OK, the PP has submitted an undertaking dated 18/05/2011 confirming that no public funding has been used for the proposed CDM wind power project activity.
5. OK, PP has confirmed in section A.4.5 of the PDD that the proposed CDM project activity is not a debundled component of a large scale project activity. However, the reference of the latest relevant guideline has not been provided. PP is requested to provide the same.
6. OK, PP has provided the reference of the applicable tool i. e. Tool to calculate the emission factor for an electricity system, Version 2.2.1, in section B.1 of the PDD.
7. The location numbers provided by the technology supplier are mentioned in section A.4.1.4 of the PDD. However, the unique identification numbers of the WTGs and the commissioning date of the WTGs as per the commissioning certificates have not been provided in section A.4.1.4 of the PDD. PP is requested to provide the same.

So, the CAR#03 is still open.

Project Participant Response	18/06/2012

1. PPA for JSD-51 is submitted now.
2. It has been corrected and source is also mentioned now.
5. Reference of latest guideline is provided now.
7. Commissioning date is mentioned as well as unique identification.

Documents/ information provided by the Project Participant:

1. PPA JSD-51 submitted.

Reasoning for acceptance or non-acceptance:	18/06/2012

1. The PPA provided for the WTG number JSD – 51 does not contain all the pages. Please provide the complete copy of this PPA. Open.
2. OK, the correct weblink i.e. http://www.suzlon.com/pdf/S88%20product%20brochure.pdf has been provided in section 4.2 of the PDD for the technical specification of the project activity. It is found to be correct and hence acceptable.
5. The reference of the latest guideline is provided in section A.4.5 of the PDD for demonstrating that the project activity is not a debundled component of a large scale project activity. However, the reference is not correct. Please provide the correct references. Open.

7. Ok, the unique identification numbers and the commissioning dates of the WTGs are provided in section A.4.1.4 of the PDD. However, the location of the WTGs (village, taluka and district) mentioned in the PDD are not inline with same mentioned in the commissioning certificates. PP is requested to correct the same in the PDD. Open.

The CAR#03 is still open.

Project Participant Response	14/07/2012

1. Now JSD-51 PPA contains the missing pages (page 17 to page 20) 5. Correct reference is provided now. 7. This has been corrected now.
Documents/ information provided by the Project Participant:
1. PPA JSD-51
Reasoning for acceptance or non-acceptance: 30/07/2012
1. OK, PP has provided the complete copy of the PPA dated 29th March, 2012 for the WTG JSD – 51. 5. OK, the correct reference of the latest guideline i. e. "GUIDELINES ON ASSESSMENT OF DEBUNDLING FOR SSC PROJECT ACTIVITIES version 03. has been provided in section A.4.5 of the PDD for demonstrating that the project activity is not a debundled component of a large scale project activity. 7. Ok, the location of the WTGs (village, taluka and district) have been corrected in section A.4.1.3 & A.4.1.4 of the PDD, which has been found to be inline with the commissioning certificates of the WTGs. Hence, the CAR#03 has been closed satisfactory.
Close out by Lead Assessor 30/07/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#04	**Reference**	AMS I. D. Version 17

Details of the Finding: 30-04-2012

1. PP is also requested to mention the name and version of the tools used for the project activity in accordance with the applied baseline and monitoring methodology.
2. The applicability condition in the 2nd row of the table in section B.2 of the webhosted PDD is not completely inline with the applicability condition mentioned in the applied baseline and monitoring methodology AMS I. D. version 17. PP is requested to correct the same.
3. PP is requested to mention the name of the grid in which the generated electricity will be supplied/ injected in the justification for the applicability condition 1 of the baseline and monitoring methodology AMS I. D.version 17 as mentioned in the table in section B.2 of the webhosted PDD.
4. The applicability condition 2 of the methodology AMS I. D. version 17 has not been discussed in the table in section B.2 of the webhosted PDD. PP is requested to discuss the same.

Project Participant Response 22/05/2012

1. Name and version of the tool used for the project activity is mentioned in section B.1
2. Applicability conditions are revised now and is inline with AMS I. D. version 17.
3. Name of the grid is NEWNE and that is now mentioned in applicability condition-1.
4. Applicability condition-2 is also now described in section B.2

Documents/ information provided by the Project Participant:

Not Applicable

Evidences verified by Lead Assessor/ Assessor:

Revised PDD dated 22/05/2012

Reasoning for acceptance or non-acceptance: 05/06/2012

1. OK, PP has provided the name and reference of the applicable tool i. e. Tool to calculate the emission factor for an electricity system, Version 2.2.1, in section B.1 of the PDD.
2. OK, the applicability condition 2 of the methodology AMS I. D. version 17 has been corrected in section B.1 of the PDD.
3. The electricity generated by the WTGs of the proposed CDM project activity will be fed to the NEWNE grid and the justification for the applicability condition 1 of the methodology AMS I. D. version 17 has been corrected to include the same.
4. The table 2 as per the applied methodology AMS I. D. version 17 has not been provided and discussed in the PDD. PP is requested to discuss the table 2 of the methodology AMS I. D. version 17 in the PDD.
5. The justification against the applicability condition 5 of the methodology in section B.2 of the PDD is not correct. PP is requested to correct the same.

Project Participant Response 18/06/2012

4. Table-2 is presented and discussed now.
5. Justification for applicability condition 5 of the methodology in section B.2 is revised now.

Documents/ information provided by the Project Participant:

Revised PDD version 3 dated 18/06/2012	
Reasoning for acceptance or non-acceptance:	25/06/2012
4. Ok the table 2 as per the applied methodology AMS I. D. version 17 has been provided and discussed in the section B.2 of the PDD. The validation team has checked the justification and as the project activity supplies electricity to grid as verified from PPA, hence accepted. 5. Ok, the justification against the applicability condition 5 of the methodology in section B.2 of the PDD has been corrected and it is found to be project specific and is found to be accordance with applied methodology AMS I. D. version 17. Hence, the CAR#04 has been closed satisfactorily.	
Close out by Lead Assessor	25/06/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CL	**No. of Finding**	#05	**Reference**	AMS I. D. Version 17
Details of the Finding:		30-04-2012			
1. PP is requested to mention in section B.4 of the PDD the reason for not considering the leakage due to the project activity.					
Project Participant Response		22/05/2012			
1. The reason for not considering the leakage is now described in the section B.4					
Documents/ information provided by the Project Participant:					
Revised PDD					
Evidences verified by Lead Assessor/ Assessor:					
Revised PDD dated 22/05/2012					
Reasoning for acceptance or non-acceptance:		05/06/2012			
1. Ok, the implementation of the wind power project activity is a new project and the energy generating equipments have not been transferred from another activity. So, the leakage has not been considered for this project activity. The same has been described in section B.4 of the PDD. The CL#05 has been closed satisfactorily.					
Close out by Lead Assessor		05/06/2012			

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#06	**Reference**	Attachment A to Appendix B & EB 62, Annex 5

Details of the Finding:	30-04-2012

1. Please mention the latest version of Attachment A to Appendix B of the simplified Modalities and Procedures for small-scale project activities in section B.5 of the PDD.

2. Please also clarify regarding the default value for expected return on equity calculated after taxes.

3. PP is requested to incorporate transparently all the input values for the calculation of the IRR of the project activity along with the sources of all the input values in section B.5 of the PDD.

4. PP is requested to explain whether all the input values used for the calculation of the IRR of the project activity were available and applicable at the time of investment decision taken for the implementation of the project activity.

5. PP is requested to provide the detailed IRR calculation sheet of the project activity in excel format.
6. The benchmark under para 8, page 7 of EB 62, Annex 5, is provided in the real terms however the financial analysis of the project activity is conducted on the nominal terms. Thus, the PP is requested to explain the same.

Project Participant Response	04/05/2012

1. Latest version of Attachment A to Appendix B of the simplified Modalities and Procedures for small-scale project activities is mentioned in section B.5 of the PDD
2. That has been revised as per the requirement.
3. All the input values have been incorporated transparently now in section B.5 of the PDD.
4. Sources mentioned for all the input values exhibit that all the input values are at the time of investment decision.
5. Detailed IRR calculation sheet is provided.
6. The benchmark has been converted to nominal term from the real term and it has been described in section B.5 of the PDD.

Documents/ information provided by the Project Participant:

1. Offer letter from Suzlon
2. Board resolution
3. IRR sheet
4. PLF report

Evidences verified by Lead Assessor/ Assessor:

1. Offer letter from Suzlon
2. Board resolution
3. IRR sheet
4. PLF report

Reasoning for acceptance or non-acceptance:	05/06/2012

1. OK, PP has applied the latest version 8 of Attachment A to Appendix B of the simplified Modalities and Procedures for small-scale project activities in section B.5 of the PDD for the demonstration of the additionality of the project activity.
2. Ok, the name of the relevant host country i. e. India has been mentioned in section B.5 of the PDD for expected return on equity calculated after taxes.
3. The source of all the input values used for the calculation of IRR of the project activity has not been provided in IRR calculation sheet and the section B.5 of the PDD. PP is requested to provide the same. Open.
4. The source of all the input values have not been presented in the IRR calculation sheet and the section B.5 of the PDD. PP is requested to present the same. Furthermore, address the following issues raised on the calculation of the IRR of the project activity:
   i. The source of the transmission losses of 1% is not provided in the IRR sheet
   ii. Insurance charges of 0.10% is not provided in the IRR sheet
   iii. As per the Combined Summary of CERC & SERCs regulations, the escalation in the O & M cost is 5 % for the state of Gujarat. PP is requested to correct the same.
   iv. Land lease charged of Rs. 0.060 million is not provided in the IRR sheet
   v. The PPA has been signed under REC mechanism and have considered APPC as tariff. So, PP is requested clarify whether RECs have been considered at the time of investment decision by documentary evidences such as the 'letter of intent' from SEB for the applicable tariff.
   vi. The cost of land arrangement is not inline with the value provided in the offer letter. PP is requested to correct the same.
   vii. The cost of electrical supply and installation is not inline with the value provided in the offer letter, PP is requested to correct the same.
   viii. The cost of erection. Installation and commissioning is not inline with the value provided in the offer letter, PP is requested to correct the same
   ix. The cost of civil work and foundation is not inline with the value provided in the offer letter, PP is requested to correct the same.
   x. The evacuation charges are not in line with value provided in the offer letter, PP is requested to correct the same.
   xi. Please provide the weblink of the documents for the applicable income tax rate and minimum alternate tax rate in the IRR calculation sheet.
   xii. The escalation rate on O & M cost in cell no. H16 of the 'P&L' worksheet of the IRR calculation sheet is not as per the assumptions taken in the assumption worksheet. PP is requested to correct the same. PP is also requested to ensure that all the cells are interlinked and the input values are taken only from the worksheet titled "assumptions'.
   xiii. Depreciation of Income tax has not been charged on Civil Work & Foundation and Evacuation Charges etc. Please correct.
   xiv. Depreciation of S.L.M. of Companies Act has not been charged on Civil Work & Foundation and Evacuation Charges etc. Please correct.
   xv. Depreciation charged on land arrangement is not correct. Please correct.

5. Ok, PP has provided the detailed IRR calculation sheet for the project activity.
6. OK, the benchmark has been converted to nominal terms from the real term for a 10 year crediting period. The mean WPI inflation rate is 5.4% (expected inflation rate for 10 years) as published by Reserve Bank of India has been considered for the same. The WPI inflatation rate has been added to the default value of the expected return on equity of 11.75%. Thus, the benchmark for the project activity is calculated to be 17.15%.

Project Participant Response	18/06/2012

3. Source of all the input values are provided now.
4.
   i. Transmission loss is removed now

ii. Value of insurance charges has been revised to 0.15% and corresponding source is also mentioned.
iii. The escalation on O and M cost is now revised to 5%
iv. Land lease charge are removed now as no source could be obtained.
v. REC was considered at the time of investment decision.
vi. Cost of land arrangement is revised now.
vii. The cost of electrical supply and installation is corrected now.
viii. The cost of erection. Installation and commissioning is corrected now.
ix. The cost of civil work and foundation is corrected now
x. The evacuation charges are corrected now.
xi. Weblinks are provided now.
xii. It has been corrected now and each cell is checked to be linked with assumption sheet.
xiii. It has been revised now.
xiv. It has been revised now.
xv. It has been revised and corrected now.

Documents/ information provided by the Project Participant:

Revised IRR calculation sheet dated 18/06/2012

Reasoning for acceptance or non-acceptance:	25/06/2012

3. OK, the source of all the input values have been provided in the IRR calculation sheet dated 18/06/2012.
4.

i. Ok, the transmission losses have been removed from the IRR calculation sheet.
ii. The weblink provided to substantiate the insurance charges belongs to tariff advisory committee Mumbai. Please clarify how it is applicable to Wind Power project in Gujarat. Open.
iii. Ok, the escalation on O & M cost has been taken as 5% per annum as per the CERC tariff order, which is found to be acceptable. However, the O & M cost considered for the project activity i.e. Rs. 10 Lakhs/ Annum/ MW is much higher than the value considered in the GERC tariff order 2010 which is Rs. 6.50 lakhs/ MW for the first year and then an escalation of 5% per annum from 2nd year onwards. Please clarify why there is so much of difference . Open.
iv. OK, the land lease charges have been removed from the IRR calculation of the project activity.
v. The PPAs for the sale of electricity to the grid are based on the REC tariff. Please clarify and substantiate the response with the help of the documentary evidences such as letter of intent from SEBs on the tariff of the project activity. Open.
vi. Ok, the cost of the land arrangement has been corrected now in the IRR calculation sheet as per the offer letter dated 11/04/2011 for the project activity.
vii. OK, the cost of electrical supply and installation has been corrected now in the IRR calculation sheet as per the offer letter dated 11/04/2011 for the project activity.
viii. The cost of erection, installation and commissioning in the IRR calculation sheet is still not inline with the value mentioned in the offer letter dated 11/04/2011 . Please correct.
ix. The cost of civil work and foundation is still not inline with the value mentioned in the offer letter dated 11/04/2011 . Please correct.
x. The evacuation charges are still not inline with the value mentioned in the offer letter dated 11/04/2011 . Please correct.

xi. OK, the weblink of the documents for the applicable income tax rate and minimum alternate tax rate have been provided in the IRR calculation sheet. However, the income tax rate and the MAT considered in the IRR calculation sheet is not inline with the same considered in the GERC tariff order dated 2010. Please correct appropriately. Open.
xii. The escalation rate on O & M cost in cell no. H16 of the 'P&L' worksheet of the IRR calculation sheet has been corrected as per the assumptions taken in the assumption worksheet an dit is found to be correct.
xiii. OK, the depreciation of Income tax has been charged on Civil Work & Foundation and Evacuation Charges etc. It is found to be correct and hence accepted.
xiv. Ok, the depreciation of S.L.M. of Companies Act has not been charged on Civil Work & Foundation and Evacuation Charges etc. It is found to be correct and hence accepted.
xv. OK, the depreciation charged on land arrangement is has been corrected.
xvi. The book depreciation value considered in the IRR calculation sheet is not inline with the commission's ruling on page 24 of the GERC tariff order, 2010. Please correct. Open.

Project Participant Response	21/07/2012

4 ii. This is the standard TAC rate which can be applied to all projects.

iii. 6.5 lacs INR/MW is considered for tariff determination purpose by State regulatory board. But the investment analysis is done by the project proponent on the basis of actual offer submitted to the project proponent. IRR has been checked for an O&M cost at the rate of Rs. 0.65 mn INR MW. The IRR thus obtained was 8.20% which is again lower than the benchmark.

v. Please find a letter attached sent to state nodal agency.

viii. The cost of erection, installation and commissioning is now presented clearly where service tax of 10.3% is shown explicitly

ix. The cost of civil work and foundation is now presented clearly showing the tax component separately.

x. Evacuation charges are now presented clearly showing the tax component separately.

xi. The income tax rate and MAT rate is not inline with GERC tariff order but these rates are considered on the basis of actual rates applicable for year 2011-2012 which is more appropriate.
Income tax is calculated as 30% plus 7.5%(surcharge) plus 3%(education cess). All these values are for FY 2011-2012. In the same way, the MAT rate is also used for FY 2011-2012 which is 18%.

xvi. The depreciation value mentioned in the GERC tariff order is the one which is considered by the state government for tariff determination and hence the standard one. While IRR analysis uses the actual depreciation hence more appropriate and conservative too.

Documents/ information provided by the Project Participant:	
Letter to GEDA	
Reasoning for acceptance or non-acceptance:	30/07/2012

4. ii. The insurance charges are provided by the 'Insurance Information Bureau' which is an independent body under the Insurance Regulatory and Development Authority of India. Thus, the insurance charges provided by the PP has been applicable to the project activity in Gujarat.

4. iii. The O & M cost has been considered from the proposals of the project activity available at the time of investment decision of the project activity, which is at the rate of Rs. 10 Lakhs/ MW/ Annum. Since, the rate of O & M cost in the GERC tariff order is Rs. 6.5 Lakhs/ MW/ Annum, so a sensitivity on O & Cost of the project activity was conducted till Rs. 6.5 Lakhs/ MW/ Annum, which resulted in 8.30% IRR of the project activity, which is still lower than the benchmark of the project activity. Thus, the considered O & M cost of the project activity does not affect the additionality of the project activity.

v. The submitted letter which was sent to GEDA does not discuss anything on the tariff of the electricity to be generated by the project activity. So, it is not possible to reach at any conclusion on the basis of this letter. Furthermore, the PPAs of the project activity are also signed under the REC mechanism. So, PP is requested to clarify why the preferential tariff has been considered in the IRR calculation sheet in place of the APPC and why the REC benefits have not been considered in the calculation of the IRR calculation sheet. Open.

viii. Ok, now the service tax has been corrected to 10.3% for the cost of erection, installation and commissioning in the IRR calculation sheet and it is found to be correct now.

ix. Ok, the cost of civil work and foundation has been corrected now and is found to be inline with the value mentioned in the offer letter dated 11/04/2011 .

x. OK, the evacuation charges have now been presented clearly showing the applied service tax. Thhis is found to be inline with the value mentioned in the offer letter dated 11/04/2011.

xi. The income tax rate and minimum alternate tax rate have been provided in the IRR calculation sheet for the assessment year 2011-12, however, PP is requested to provide the values for the financial year 2011-12 as the investment decision date for the project activity is 18/04/2011. Please correct appropriately. Open.

xvi. Ok, the depreciation of the project activity has been corrected in the IRR sheet and in the revised PDD as per the commission's ruling on page 24 of the GERC tariff order, This has been found to be correct and hence accepted.

Project Participant Response	22/08/2012

v. The REC policy has been launched in Novemeber 2010 which is clearly adopted after 11 Nov 2001 and hence comes under the category of E- (E minus) policy. Therefore in accordance to EB-16, Annex-3, for this project, financial analysis has to be considered in such a way that no such policy was into the existence.

Therefore the tariff for the project activity is considered as if there is no REC policy. And hence, the preferential tariff is considered not the APPC price.

xi. Now the income tax rate and minimum alternative tax rate for financial year 2011-12 is used.

Documents/ information provided by the Project Participant:	
Revised PDD version 06 dated 17/08/2012	
Reasoning for acceptance or non-acceptance:	28/08/2012
v. The REC policy is to promote the renewable energy projects in India. Thus, it is a E- policy. This policy has come into existence after the adoption of the CDM M & P by COP i.e. after 11 November, 2001. Thus, the preferential tariff has been used for the assessment of the additionality instead of the Average Power Purchase Cost of electricity as per the REC policy. This is found to be inline with the para 7 (b) of EB 22, Annex 3. xi. OK, PP has corrected the income tax rate and minimum alternate tax rate in the IRR calculation sheet as per the financial year 2011-12. However, provision for tax from 4th year onwards is incorrect as there are brought forwards lossses are exists. Provision for Tax as per MAT under section 115JB of Income Tax Act to be made in the case of availaibility of taxable profit. xvi Depreciation has been charged on total cost of assets while depreciation to be charged on total cost less salvage value of assets. Open. xvii. The attachment A to Appendix B has been used in section B.5 of the PDD for the demonstration of the additionality of the project activity. PP is requested to apply the latest 'Guidelines on the demonstration of additionality of small-scale project activities, Version 09', EB 68, Annex 27 in place of Attachment A to Appendix B'. Open. Thus, the CAR#06 is still open.	
Project Participant Response	14/09/2012
xi. This is the standard method of calculating tax. MAT is applied on the project activity and if you observe maximum of the two, income tax and MAT is considered which means both are not considered simultaneously. xvi: If the calculation is observed carefully, it reveals that the depreciation as per company's act is charged on total cost less salvage value. Because for the first 10 years, it is 6% and for the last 10 years, it is 2% which aggregates to 80% of the total project cost. 20% is the salvage value. xvii. Now thw latest "Guidelines on the demonstration of additionality of small-scale project activities, Version 09', EB 68, Annex 27" is applied.	
Documents/ information provided by the Project Participant:	
Revised PDD version 07 dated 28/08/2012 Revised IRR Calculation sheet dated 28/08/2012	
Reasoning for acceptance or non-acceptance:	14/09/2012

xi. Ok, the MAT and income tax has not been applied simultaneously for the calculation of the IRR of the project activity, however Income tax rate is different for calculation of provision for tax in Profit & Loss account and calculation of tax shield in cash flow statement. PP is requested to correct the same and to link all the input parameters with the values provided in 'assumptions' work sheet. Open. xvi. Depreciation as per SLM has been charged in according to GERC tariff order while Depreciation as per SLM to be charged as per companies Act,1956 being EECL a private limited company. Open. xvii. OK, the PP has now applied the latest "Guidelines on the demonstration of additionality of small-scale project activities, Version 09', EB 68, Annex 27" fro the demonstration of the additionality. Thus, the CAR#06 is still open.

Project Participant Response	14/09/2012
xi. It has been revised and all the input parameters are connected with the assumption sheet now. xvi. Now depreciation is considered as per companies act, 1956.	
Documents/ information provided by the Project Participant:	
Revised PDD version 08 dated 14/09/2012 Revised IRR calculation sheet dated 14/09/2012	
Reasoning for acceptance or non-acceptance:	01/12/2012
xi. OK, the income tax rate for calculation of provision for tax in Profit & Loss account and calculation of tax shield in cash flow statement has been made consistent and it has also been linked with the value provided in the assumptions sheet. xvi. The depreciation considered in the investment analysis of the project activity is as per Schedule XIV of the Companies Act. This has been verified with the Schedule XIV of The Companies Act, which is authentic source for this information and found to be applicable to the project activity at the time of investment decision/65/. CAR has been opened due to ITR comments (a) PP is requested to clarify how default benchmark has been used as it was not available at the time of decision making. (b) All the input parameters used in IRR calculations are not mentioned in section B.5 of PDD. (c) PP is requested to clarify regarding insurance. (d) Source mentioned for IT depreciation and interest rate are not clear. (e) PP has considered REC benefits in the project but details of the same are not mentioned in PDD (f) Sensitivity range is not justified as per actual parameters.	
Project Participant Response	01/12/2012

(a) PP had calculated return on equity based on CAPM at the time of decision making. The detailed calculations are provided to the validation team. The return on equity as per CAPM works out to be 16.24%. PP has also cpmpared this retun on equity with the default value as per EB-62, Annex-5. The default return on equity after considering the inflation works out to Be 17.78%. As the return on equity using CAPM is conservative, the same is considered as benchmark for the project activity.
(b) All the input parameters have been mentioned in section B.5 of the PDD including debt/equity ratio, lifetime, MAT and salvage value.
(c) In the revised IRR sheet, insurance has been removed now.
(d) The source for IT depreciation has been corrected and source mention is income tax rules. The interest rate has been taken from RBI and it is correctly mentioned in the revised PDD.
(e) The details on REC is now included in section B.5 of the PDD. REC mechanism is E- policy as it came into existence after 11 Nov 2001 and it provides comparative advantage to less carbon intensive technologies over more carbon intensive technologies.
(f) CA certificate for actual project cost has been provided to the validation team. Actual cost is 8.5% lower and sensitivity has been done upto -10% of project cost which covers actual cost also. All the wind mills were commissioned by 29/03/2012 hence 1 year PLF data is not available for all the machines. O&M contract for the machines have not been signed and are in the process. Though we have carried out sensitivity for the value of O&M expense given in the GERC tariff order 2010 (0.65mn INR per MW) and IRR comes out to be 10.57% which is still below the benchmark. Actual Interest rate is 13% while interest rate considered in IRR calculation is 9.5%, thus conservative.

Documents/ information provided by the Project Participant:

Revised PDD and revised IRR sheet

Reasoning for acceptance or non-acceptance:	01/12/2012

PP is requested to explain following

1. Book depreciation rate as per Company's Act as used is not correct.
2. MAT rate applied is not correct..
3. Deductions U/S 80 IA is not correct.
4. PP is requested to clarify regarding the service tax in Capital cost
5. Debt percentage mentioned is not correct and total capital cost are not correct
6. CER price is not mentioned and date for which exchange rate is taken is not mentioned
7. IRR vales for Sensitivity analysis are not mentioned.

CAR #06 is still open

Project Participant Response	02/12/2012

1. Book depreciation rate has been corrected as per Schedule XIV of Company's act
2. MAT rate has been corrected as per Income Tax Act, FY 2011-12
3. Deductions U/S 80 IA is corrected now.
4. Service tax is removed from all parameters in IRR sheet.
5. Debt equity ratio has been corrected to 70:30 and capital cost is also corrected.
6. CER price is mentioned and date of exchange rate is taken is also mentioned as 7th March 2011 which is applicable at the time of decision making.
7. IRR vales for Sensitivity analysis are now mentioned in the IRR sheet.

Documents/ information provided by the Project Participant:	
Revised PDD, IRR	
Reasoning for acceptance or non-acceptance:	02/12/2012
1. Book depreciation has been corrected to 4.75% which is in line with Schedule XIV of The Company Act, hence accepted. 2. MAT rate has been corrected to 20.01% which is as per Income Tax Act for FY 2011-12, hence accepted. 3. Deductions under section 80 IA have been corrected in revised IRR excel spreadsheet and hence accepted. 4. Service tax has been removed from various parameters in IRR which is conservative, hence accepted 5. Debt equity ratio has been corrected to 70:30 which is taken from GERC tariff order which is applicable at the time of decision making, hence accepted. 6. CER price is mention in IRR calculation and link has been provided and the same has been checked by the validation team. Exchange rate has also been provided for 7/03/2012 and source has been checked by validation team and found to be correct. CER price and exchange rate are applicable at the time of decision making hence accepted. 7. IRR values for sensitivity are mentioned in IRR sheet and same has been checked by validation team and found to be correct. As the above mentioned corrections have been made by PP and the same has been checked by validation team and they are found to be correct, hence the CAR #06 is closed satisfactorily	
Close out by Lead Assessor	02/12/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#07	**Reference**	EB 62, Annex 13

Details of the Finding:	30-04-2012

2. PP is requested to provide the evidences for all the milestones achieved for the prior CDM consideration for the proposed CDM project activity as mentioned in section B.5 of the PDD and in accordance with the requirement of EB 62, Annex 13.

Project Participant Response	04/05/2012

Intimation has been sent to UNFCCC as well as MOEF. India to seek CDM status within six months of start date and is in accordance with the requirement of EB 62, Annex 13 . Copies of these intimation emails are provided.

Documents/ information provided by the Project Participant:

Intimation emails

Reasoning for acceptance or non-acceptance:	05/06/2012

PP has provided the copy of the intimation e-mail sent to the UNFCCC. However, the intimation e-mail sent to the Indian DNA has not been provided. PP is requested to provide the copy of the intimation e-mail sent to the host country DNA and standardized form F-CDM-Prior Consideration sent to UNFCCC and Indian DNA. Open.

Project Participant Response	18/06/2012

Intimation email sent to DNA and F-CDM form is also provided now.

Documents/ information provided by the Project Participant:

Intimation e-mail dated 11/10/2011 sent to NCDMA of India

Reasoning for acceptance or non-acceptance:	27/06/2012

OK, PP has provided the e-mail evidence dated 11/10/2011 notifying the National CDM Authority of India regarding the implementation of the 12.6 MW wind Power Project in Gujarat. It is found to be correct and hence accepted.

Thus, it has been verified with the UNFCCC CDM website http://cdm.unfccc.int/Projects/PriorCDM/notifications/index_html and the e-mail sent to the NCDMA by the PP that the CDM was duly considered for the project activity prior to the implementation of the wind power project activity.

Thus, the CAR#07 has been closed satisfactorily.

Close out by Lead Assessor	27/06/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#08	**Reference**	EB 63, Annex 19

Details of the Finding: 30-04-2012

1. PP is requested to apply the latest available version of tool to calculate the emission factor for an electricity system for the calculation of the emission factor for the project activity.

2. Please provide the source/ weblink for the CO2 Baseline database version 6 as mentioned in section B.6. 1 of the webhosted PDD.

3. Please provide the emission reduction calculation sheet and emission factor calculation sheet for the project activity.

4. Please mention the source/ weblink of the CEA CO2 Baseline Database in the table in section B.6.2 of the PDD. Furthermore, please ensure that the CO2 Baseline Database used for the determination of emission factor of the project activity was the latest data available at the time of PDD provided to the DOE for the validation as per the requirement of 'tool to calculate the emission factor of an electricity system'.

Project Participant Response 04/05/2012

1. Latest version of tool is applied now and it is now , "Tool to calculate the emission factor for an electricity system, Version 2.2.1"
2. It is provided now in the section B.4
3. Emission reduction sheet along with emission factor calculation sheet is provided now.
4. It has been mentioned in section B.4 and the CO2 Baseline Database and is the latest available.

Documents/ information provided by the Project Participant:

2. http://www.cea.nic.in/reports/planning/cdm_co2/user_guide_ver6.pdf
3. ER-sheet

Evidences verified by Lead Assessor/ Assessor:

2. http://www.cea.nic.in/reports/planning/cdm_co2/user_guide_ver6.pdf
3. ER-sheet

Reasoning for acceptance or non-acceptance: 05/06/2012

1. The latest applicable version of the 'tool to calculate the emission factor of an electricity system' has not been applied in all the places of the PDD. Furthermore, the calculation of the emission factor is not inline with the requirement of the 'tool to calculate the emission factor of an electricity system'. So, PP is requested to calculate the emission factor as per the 'tool to calculate the emission factor of an electricity system' in the ER calculation sheet and in the PDD. Open.
2. The reference of the latest CEA database at the time of submission of the PDD to DOE has not been mentioned in section B.6.1 of the PDD. PP is requested to correct the same. Open.
3. Ok, PP has provided the emission reduction and emission factor calculation sheet. However, the calculation of emission factor in the ER calculation sheet is not correct. PP is requested to correct it as per the latest applicable emission factor calculation tool for an electricity system. Open.
4. The weblink for the CEA CO2 Baseline Database in the table in section B.6.2 of the PDD has not been mentioned. Please mention. Open.

Project Participant Response 18/06/2012

1. Now only the latest version of the tool "'Tool to calculate the emission factor of an electricity system version 0.2.2.1" is used. It has been corrected at all places in PDD. The emission factor is calculated in accordance to this latest tool
2. Reference of latest CEA database is provided now.
3. Emission reduction sheet is revised as per the latest CEA database
4. Weblink for CEA database is mentioned now.

Documents/ information provided by the Project Participant:

1. Revised PDD version 3 dated 18/06/2012
2. Revised ER calculation sheet dated 18/06/2012

Reasoning for acceptance or non-acceptance:	27/06/2012

1. OK, PP has applied the latest version 2.2.1 of the 'tool to calculate the emission factor of an electricity system'. However, the calculation of the emission factor is still not correct and not inline with the requirement of the 'tool'. Please correct. Open.
2. Ok, the reference of the latest CEA database available at the time of submission of the PDD to DOE has now been mentioned in section B.6.1 of the PDD. It is found to be correct and hence accepted.
3. The calculation of emission factor in the ER calculation sheet is still not correct. PP is requested to correct it as per the latest applicable emission factor calculation tool for an electricity system. Open.
4. The weblink for the CEA CO2 Baseline Database in the table in section B.6.2 of the PDD has now been provided. It is found to be correct and hence accepted..

The CAR#08 is still open.

Project Participant Response	30/07/2012

1. This has been revised in the ER sheet.

3. This has been revised in the ER sheet.

Documents/ information provided by the Project Participant:

Revised PDD version 4 dated 14/07/2012 and the revised IRR calculation sheet

Reasoning for acceptance or non-acceptance:	18/08/2012

1. & 3 OK, the ex- ante emission factor for the project activity has been calculated correctly in accordance with the version 2.2.1 of the 'tool to calculate the emission factor of an electricity system'. However, the value has been rounded up. PP is requested to use the round down value to be conservative. The PP is also requested to consider the rounded down value of the emission reductions and to revise the ER calculation sheet and the PDD.

The CAR#08 is still open.

Project Participant Response	22/08/2012
Value of emission factor is rounded down now to maintain the conservativeness.	
Documents/ information provided by the Project Participant:	
1. Revised PDD version 06 dated 17/08/2012 2. Revised ER calculation sheet	
Reasoning for acceptance or non-acceptance:	28/08/2012
1. The emission reductions have now been rounded down in the revised ER calculation sheet to be conservative. The final value of the ER calculation is 21085 t CO_2, the same has also been corrected in the revised PDD. Thus, the CAR#08 has been closed satisfactorily.	
Close out by Lead Assessor	28/08/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#09	**Reference**	AMS I. D. Version 19

Details of the Finding: 30-04-2012

1. As per the project boundary diagram mentioned in section B.3 of the webhosted PDD and during the site visit of the project activity it was noted that other WTGs which are not part this proposed CDM project activity are connected to the same substation meter. So, PP is requested to provide a proper apportioning procedure for the measurement of the electricity generated by the proposed CDM project activity in the PDD and to revise the monitoring plan accordingly.
2. PP is also requested to provide the supporting document for the apportioning procedure applied to monitor the net electricity exported to the grid by the proposed CDM project activity.
3. During the site visit of the project activity it was also noted that one 'ABT meter' was also installed along with the main meter and the check meter at the substation. PP is requested to clarify what exactly the ABT meter is and why it has been installed and please provide the suitable evidences to support the same.

Project Participant Response 04/05/2012

1. The apportioning method is explicitly discussed in the section B.7.2

2. The apportioning method is explicitly discussed in the section B.7.2

3. ABT (**Availability-based Tariff**) is a commercial tariff regime designed to inculcate grid discipline and to provide a system for commercial settlement for pricing 'unscheduled' transactions at grid level. The information required by participants of the scheme in India, using data from each of the 15-minute blocks that are used in managing the grid. The specially-developed software calculates, in real time, the projected financial impact for participants for each 15-minute block, based on the amount of energy drawn from or supplied to the grid. Reports generated by the software can be used for day-ahead forecasting and for balancing the conflicting demands of generators and large consumers.

Documents/ information provided by the Project Participant:

3. http://www.securetogether.com/Availability-based-Tariff-%28ABT%29-Accounting-and-Management-Service.aspx

Evidences verified by Lead Assessor/ Assessor:

3. http://www.securetogether.com/Availability-based-Tariff-%28ABT%29-Accounting-and-Management-Service.aspx

Reasoning for acceptance or non-acceptance: 05/06/2012

1. The monitoring procedure provided in section B.7.1 of the PDD is not inline with the requirement of para 24 (point 5) of the applied methodology AMS I. D. version 17, which requires the monitoring plan to be of continuous monitoring, hourly measurement and at least monthly recording. Furthermore, please ensure that the monitoring plan in section B.7.1 of the PDD complies with requirement of para 17 of EB 61, Annex 21. Open.
3. The parameters/ abbreviations for the parameters used in section B.7.2 of the PDD are not consisting with the parameters used in section B.7.1 of the PDD. PP is requested make the monitoring plan consistent in section B.7.1 and B.7.2 of the PDD. Open.
4. During site visit of the project activity it was found that the intra state ABT meters have already been implemented at the project activity site. So, PP is requested to clarify how readings of the ABT meters will be taken in account as the clause 5.4 of the PPA of the project activity states that "The other provisions of Intra State ABT

and Open Access Regulations appearing in this agreement shall also be applicable only after the intra-state ABT is implemented." Open.

Project Participant Response	18/06/2012

1. Monitoring procedure is revised now and is inline with the requirement of para 24 (point 5) of the applied methodology AMS I. D. version 17
2. Now parameters/abbreviation are consistent
3. The ABT meters are used to download data directly by State Load Dispatch Center (SLDC) and hence the data hence obtained is used for forecasting by SLDC.

Documents/ information provided by the Project Participant:

1. Revised PDD version 3 dated 18/06/2012
2. Revised ER calculation sheet dated 18/06/2012

Reasoning for acceptance or non-acceptance:	27/06/2012

1. The monitoring procedure provided in section B.7.1 of the PDD is still not inline with the requirement of para 24 (point 5) of the applied methodology AMS I. D. version 17, which requires the monitoring plan to be of continuous monitoring, hourly measurement and at least monthly recording. Please correct. Open
2. The parameters/ abbreviations for the parameters used in section B.7.2 of the PDD have been made consistent with the parameters used in section B.7.1 of the PDD. The same has been checked and found to be correct.
3. The above explanation regarding the implementation of the ABT meters and their use as mentioned in section Article 5 of the PPA is not clear. Please clarify it further and provide the supporting documents to substantiate the same. Open
4. Please provide the complete copies of the all the PPAs. The PPAs submitted till date do not have all the pages. Open.

The CAR#09 is still open.

Project Participant Response	30/07/2012

1. This has been revised in the PDD now.

3. ABT meters are used to provide continuous data which can be monitored by government officials for load profiling and load management. While main meter and backup meters are used to take the readings for monitoring electricity

4. JSD-51 didn't contain the missing pages 17-20. These pages are now included and JSD-51 PPA is being sent again.

Documents/ information provided by the Project Participant:

Reasoning for acceptance or non-acceptance:	18/08/2011

1. The monitoring procedure provided in section B.7.1 of the PDD has been made inline with the requirement of para 24 (point 5) of the applied methodology AMS I. D. version 17, which requires the monitoring plan to be of continuous monitoring, hourly measurement and at least monthly recording. However, PP is also requested to amend the monitoring plan in section B.7 to be inline with the requirement of para 14 of EB 66, Annex 23 and para 97 of EB 65, Annex 5. Open.

3. As per the clause no. 5.4 of the ABT meter which states that 'till the ABT meter is implemented, the certificate issued by GEDA for generation share of wind turbine shall be acceptable for monthly energy bill.' This means after the implementation of the ABT meters the monitoring procedure will be different than the described monitoring procedure

in the section B.7 of the PDD, which includes the main meter and the check meters installed at the substation. PP is requested to further clarify the same. Open. 4. OK, the complete copies of the PPAs have been provided.
Project Participant Response 22/08/2012
1. The monitoring plan is amended in accordance to para-14 of EB-66, Annex 23 and para 97 of EB 65, Annex 5. 3. As mentioned earlier, ABT meters are used to provide continuous data which can be monitored by government officials for load profiling and load management. While main meter and backup meters are used to take the readings for monitoring electricity.
Documents/ information provided by the Project Participant:
Revised PDD version 06 dated 17/ 08/2012
Reasoning for acceptance or non-acceptance: 28/08/2012
1. OK, the monitoring plan covers all the aspects of the para 97 of EB 65, Annex 5. However, the calibration frequency of the energy meters in section B.7.1 and B.7.2 of the PDD is not same. PP is requested to correct it. Open. 3. Ok, the main meter and check meters installed at the substation will be used for the monitoring of the electricity. However, the ABT meters installed at the substation will be used to provide continuous data which can be monitored by government officials for load profiling and load management. Thus, the CAR#09 is still open.
Project Participant Response 28/08/2012
1. Now, the consistency in calibration is maintained in both the sections B.7.1 and B.7.2. Calibration frequency is now considered once in a three year throughout.
Documents/ information provided by the Project Participant:
Revised PDD version 07 dated 28/08/2012
Reasoning for acceptance or non-acceptance: 01/12/2012
1. Ok, the calibration frequency of the energy meters has been made consistent in section B.7.1 and B.7.2. CAR has been opened due to ITR comments Source of data mentioned in Table B 7.1 for parameter EGy is not clear. Measurement methods and procedures to be applied for EGy are also not clear. Methodology requires continuous monitoring, hourly measurements and monthly recording which is not clearly mentioned in PDD. PP is requested to clarify on the apportioning details as mentioned in section B 7.2 of PDD. Also clarify regarding ABT meter.
Project Participant Response 01/12/2012

The source of data for parameter EGy is certificate for share of electricity generated/issued by SLDC. The measurement methods and procedures have been revised in section B.7.1 of revised PDD inline with actual monitoring being carried out at site. Continous monitoring , hourly measurements and monthly recording is mentioned in the revised PDD. Apportioning of net electricity supplied to grid by WTGs of project activity is being carried out. Apportioning is being carried out based on reading of meters at substation and meter at WTG. Apportioning is not under the control of PP and data is not shared with PP. SLDC issues certificate of share of electricity generated which provides net electricity exported to grid by WTGs of PP and this forms basis of emission reduction calculations. The apportioning details are accordingly revised in the updated PDD. ABT meter is used for the purpose of monitoring the net electricity exported to grid at the substation. The details are discussed now in section B.7.1 and B.7.2
Documents/ information provided by the Project Participant:
Revised PDD

Reasoning for acceptance or non-acceptance:	01/12/2012
Section B.7.1 has been revised correctly in revised PDD in line with actual monitoring being carried out at site. Source of data for EGy has been corrected and it is found to be correct. Revised PDD has been updated in regard to continuous monitoring, hourly measurement and monthly recording, section B.7.2 has been revised correctly. PP has clarified that apportioning is not under the control of PP and SLDC (statutory body) issues certificate of share of electricity which forms basis of emission reduction which is found to be correct. PP has also clarified that electricity is measured by ABT meter at sub-station which is correct. As above mentioned corrections have been made and found to be correct, hence CAR #09 has been closed.	
Close out by Lead Assessor	01/12/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#10	**Reference**	PDD, section B.7.2
Details of the Finding:		30-04-2012			
PP is requested to provide the copy of Operations and Maintenance Agreement signed between Suzlon & EECL as mentioned in section B.7.2 of the webhosted PDD.					
Project Participant Response		04/05/2012			
It has not been signed yet hence this statement is also revised in action B.7.2					
Documents/ information provided by the Project Participant:					
Not Applicable					
Evidences verified by Lead Assessor/ Assessor:					
Not Applicable					
Reasoning for acceptance or non-acceptance:		05/06/2012			
Ok, the Operations and Maintenance Agreement has not been signed between Suzlon & EECL yet and the statement in section B.7.2 of the PDD has been corrected accordingly. Hence, the CAR#10 has been closed satisfactorily.					
Close out by Lead Assessor		05/06/2012			

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#11	**Reference**	Attachment A to Appendix B, EB 41, para 67 & EB 62, Annex 5

Details of the Finding:	30-04-2012

1. PP is requested to provide the copies of the purchase orders of the project activity to substantiate the start date of the project activity as mentioned in section C.1.1 of the webhosted PDD.
2. PP is requested to provide evidences to substantiate the expected operational life of the project activity as mentioned in section C.1.2 of the webhosted PDD.

Project Participant Response	04/05/2012

1. Purchase order is submitted now.
2. Operational life is mentioned in the Technical specification sheet which is provided now.

Documents/ information provided by the Project Participant:

1. Purchase orders.
2. Technical specification

Evidences verified by Lead Assessor/ Assessor:

1. Purchase orders.
2. Technical specification

Reasoning for acceptance or non-acceptance:	05/06/2012

1. The PP has provided the copies of the purchase orders of the 6 nos. of 2.1 WTGs to be installed at Jasdan site in Gujarat. The date of the purchase orders is 20th, April, 2011. Thus, the start date of the project activity is 20/04/2011 as per para 67 of EB 41.
2. The expected operational lifetime of the project activity is 20 years. This has been confirmed with the technical specifications of the project activity.

Thus, the CAR#11 has been closed satisfactorily.

Close out by Lead Assessor	05/06/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#12	**Reference**	VVM Ver. 1.2 Para 128

Details of the Finding:	30-04-2012

1. PP is requested to provide the copies of the public notices and the invitation letters sent to invite the local stakeholders.

2. PP is requested to provide the copy of the minutes of meeting of the local stakeholder consultation as mentioned in section E.1 of the PDD.

Project Participant Response	04/05/2012

1. Public notice as well as invitation letters is provided.
2. Minutes of meeting is submitted.

Documents/ information provided by the Project Participant:

1. Public Notice
2. Invitation letter
3. Minutes of meeting

Evidences verified by Lead Assessor/ Assessor:

1. Public Notice

Reasoning for acceptance or non-acceptance:	05/06/2012

1. OK, PP has provided the copy of the public notice published in local news paper dated 18/10/2011 for the local stakeholder consultation meeting to be held at Rajpara substation, Taluka Chotila, District – Surendranagar on 24/10/2012. However, the copy of the invitation letter has not been submitted. PP is requested to submit the same. Open.
2. The minutes of meetings of local stakeholder consultation meeting held at Rajpara substation, Taluka Chotila, District – Surendranagar on 24/10/2012 has not been submitted. PP is requested to submit the same. Open.

Project Participant Response	18/06/2012

2. Copy of invitation letter is submitted now.
3. Minutes of meeting is also submitted now.

Documents/ information provided by the Project Participant:

Invitation letter
Minutes of meeting

Reasoning for acceptance or non-acceptance:	27/06/2012
1. There is only one stakeholder invitation letter submitted which was sent to NCDMA of India. PP is requested to submit the copies of all the invitation letters sent to the stakeholders as mentioned in section E.1 of the PDD. Open. 2. The minutes of meeting dated 24th October, 2011 does not contain the signatures of all the attendees of the local stakeholder consultation meeting. Please clarify how it is confirmed that the local stakeholder consultation meeting was attended by the stakeholders mentioned in the submitted 'minutes of meeting' dated 24th October, 2011. Open. The CAR#12 is still open.	
Project Participant Response	21/07/2012
1. The sample letter is submitted. 2. Attendance sheet is separately submitted now which contains signature of all the attendees	
Documents/ information provided by the Project Participant:	
Attendance sheet	
Reasoning for acceptance or non-acceptance:	18/08/2012
1. PP has submitted the sample copy of invitation letter sent to NCDMA of India as an evidence that the local stakeholders as identified in section E.1 of the PDD have been invited through invitation letters. 2. OK, PP has submitted a separate copy of the attendance sheet of the local stakeholders, who have attended the local stake holder consultation meeting., Which is found to be appropriate. Thus, the CAR#12 has been closed satisfactorily.	
Close out by Lead Assessor	18/08/2012

Date:	30-04-2012	**Raised by:**		Rakesh Chouhan	
Type of Finding	CAR	**No. of Finding**	#13	**Reference**	VVM Version 1.2, para 131

Details of the Finding:	30-04-2012
PP has used the Ministry of Environment and Forests (MoEF), Government of India notification dated September 14th, 2006 regarding the requirement of EIA studies as per the Environment Protection Rule, 1986 (MoEF, 2002). However, the PP is requested to provide the reference of the latest notification issued by Govt. of India for the requirement of the EIA clearance of the project activities.	
Project Participant Response	04/05/2012
This has been corrected now as per the latest notification dated December,1, 2009	
Documents/ information provided by the Project Participant:	
Revised PDD dated 22/05/2012	
Evidences verified by Lead Assessor/ Assessor:	
Revised PDD dated 22/05/2012	
Reasoning for acceptance or non-acceptance:	05/06/2012
Ok, PP has considered the latest notification dated December 1, 2009 issued by Govt. of India for the requirement of the EIA clearance of the project activity. However, PP is also requested to provide the weblink of this notification in section D.1 of the PDD. Open. Hence, the CAR#13 is still open.	
Project Participant Response	18/06/2012
Weblink of latest notification dated December 1, 2009 issued by Govt. of India for the requirement of the EIA clearance of the project activity is provided now.	
Documents/ information provided by the Project Participant:	
Revised PDD version 3 dated 18/06/2012	
Reasoning for acceptance or non-acceptance:	27/06/2012
OK, PP has provided the weblink http://moef.nic.in/downloads/rules-and-regulations/3067.pdf of the latest notification dated December 1, 2009 issued by Govt. of India in section D.1 of the PDD for the requirement of the EIA clearance of the project activity. It is found to be correct and hence accepted. Thus, the CAR#13 has been closed satisfactorily.	
Close out by Lead Assessor	27/06/2012

Date:	**29/10/2012**	**Raised by:**		Rakesh Chouhan Manoj Kumar Srivastava	
Type of Finding	**CAR**	**S. No. of Finding**	#14	REFERENCE	VVM/PDD

Details of the Finding:	29/10/2012
2. The host party identified is in section A.3 of web hosted PDD is not clear Please clarify the same.	
Project Participant Response	3/11/2012
Host Party is India and the same is mentioned in the revised PDD.	
Documents/ information provided by the Project Participant:	
Revised PDD received with correction in section A.3 and host party stands identified correctly.	
Reasoning for acceptance or non-acceptance:	01/12/2012
Ok, Revised PDD incorporates the correct name of host party in the section A.3. The host party name is mentioned as India which is correct. The response is appropriate and hence CAR #14 has been closed.	
Close out by Lead Assessor	01/12/2012

Date:	**29/10/2012**	**Raised by:**		Rakesh Chouhan Manoj Kumar Srivastava	
Type of Finding	**CAR**	**S. No. of Finding**	#15	REFERENCE	VVM/PDD

Details of the Finding:	29/10/2012
1. Project boundary description is not mentioned in section B.3 of PDD.	
Project Participant Response	3/11/2012
Now, project boundary description has been added in the section B.3 of the revised PDD as per the methodology AMS I.D. version-17	
Documents/ information provided by the Project Participant:	
Revised PDD	
Reasoning for acceptance or non-acceptance:	3/11/2012
Project boundary description has been added in the section B.3 of revised PDD which meets the requirement as per methodology AMS I.D version 17 hence the CAR #15 has been closed.	
Close out by Lead Assessor	03/11/2012

Date:	**29/10/2012**	**Raised by:**		Rakesh Chouhan Manoj Kumar Srivastava	
Type of Finding	**CAR**	**S. No. of Finding**	#16	REFERENCE	VVM/PDD

Details of the Finding:	29/11/2012

3. Complete steps for calculating emission factor are not mentioned in PDD.
4. Emission reductions are not mentioned correctly in section B 6.3 of PDD
3. Years mentioned in tables in Section 6.4 are not consistent with table provided in section section A.3

Project Participant Response	3/11/2012

1. Complete steps for calculating emission factor have been added in the revised PDD inline with "Tools to calculate emission factor for electricity system"
2. Emission reductions have been corrected in the revised PDD in the section B.6.3. The corrected emission reductions are 21085 tCO_2e per annum.
3. Years have been made consistent in section B.6.4 and A.3

Documents/ information provided by the Project Participant:

Revised PDD

Reasoning for acceptance or non-acceptance:	3/11/2012

Steps for calculation of emission factor has been correctly added in the revised PDD which is in line with "Tools to calculate emission factor for electricity system", emission reduction has been corrected in the section B 6.3 of revised PDD. Emission reductions has been corrected in section B 6.3 of PDD and the same has been checked by the validation team and found to be correct. Years has been made consistent in the section B 6.4 and A.3 of revised PDD. As the above mentioned corrections have been made and found to be correct, hence the CAR # 16 has been closed.

Close out by Lead Assessor	3/11/2012.

Date:	**29/10/2012**	**Raised by:**		Rakesh Chouhan Manoj Kumar Srivastava	
Type of Finding	**CL**	**S. No. of Finding**	#17	REFERENCE	VVM/PDD
Details of the Finding:		DD/MM/YYYY			
3. PP is requested to provide actual debt/equity ratio and copy of loan sanction letter 4. PP is requested to provide copy of O&M letter.					
Project Participant Response		29/10/2012			
1. Actual debt equity ratio for the project activity is 71:29. The IRR at actual debt equity ratio is 7.24% which is lower than the benchmark. Load sanction letter is also provided to the validation team. 2. O and M contract is not signed yet.					
Documents/ information provided by the Project Participant:					
Revised PDD, IRR Sheet					
Reasoning for acceptance or non-acceptance:		3/11/2012			
PP has provided loan sanction letter and actual debt equity is 71:29 and IRR at actual; debt equity is less than benchmark. PP has clarified that O&M contract has not been signed as yet. One year free O&M is provided by WTG supplier. Hence CL #17 has been closed.					
Close out by Lead Assessor		3/11/2012			

APPENDIX 2
QUALIFICATION CERTIFICATE

We declare that Mr./Ms Rakesh Chouhan

is qualified as Validator/Verifier

for the Technical Area 1.2

Technical Area	Technical Area Description	Sectoral Scope
1.2	Energy generation from renewable energy sources	1

He is also qualified as Team Leader for validation/verification functions

CEO

QUALIFICATION CERTIFICATE

We declare that Mr./Ms Manoj K. Srivastava

is qualified as Validator/Verifier

for the Technical Area -

Technical Area	Technical Area Description	Sectoral Scope
-	-	-

He is also qualified as Team Leader for validation/verification functions

CEO

QUALIFICATION CERTIFICATE

We declare that Mr./Ms Rajeev Singhal

is qualified as Financial expert

for the Technical Area -

Technical Area	Technical Area Description	Sectoral Scope
-	-	-

CEO

QUALIFICATION CERTIFICATE

We declare that Mr./Ms Naresh Badhwar

is qualified as Validator/Verifier, Technical Reviewer

for the Technical Area 1.2, 13.1

Technical Area	Technical Area Description	Sectoral Scope
1.2	Energy generation from renewable energy sources	1
13.1	Waste handling and disposal	13

He is also qualified as Team Leader for validation/verification functions

CEO