13.65 MW WIND POWER PROJECT OF KHATAU NARBHERAM & CO. IN TAMIL NADU, INDIA

Document Prepared By Khatau Narbheram & Co.

Project Title	13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India.
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1 PROJECT DETAILS

1.1 Summary Description of the Project

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

1.2 Sectoral Scope and Project Type

As per the Verified Carbon Standard, Methodologies for baseline estimation and formulation of monitoring plan include methodologies specified by the:

- VCS Methodologies
- Clean Development Mechanism (CDM) of United Nations Framework Convention on Climate Change (UNFCCC)
- California Climate Action Registry

For the GHG abatement project activity under consideration, the project proponent chooses to apply an appropriate methodology as specified by Appendix B to the simplified modalities and procedures for small scale CDM project activities[1]. The project activity under consideration fits into the following type and category:

- Sectoral Scope: I - Energy industries (renewable / non-renewable sources)
- Type: I – Renewable Energy Projects
- Category: I.D. ‘Grid Connected Renewable Energy Generation’

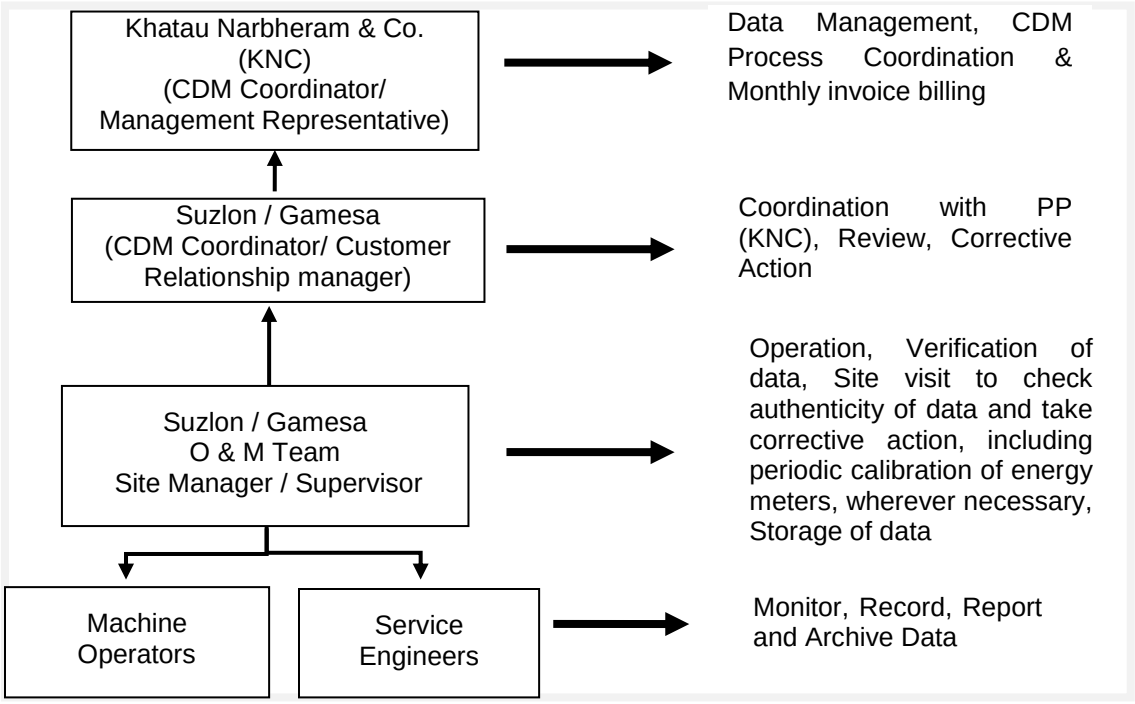
The project activity is not a grouped project activity.

[1] Refer to: http://cdm.unfccc.int/methodologies/SSCmethodologies

1.3 Project Proponent

Organization	Khatau Narbheram & Co.
Street/P.O. Box	91A/1 Park Street
Building	Avani Signature; 6th Floor
City	Kolkata
State/Region	West Bengal
Postcode	700016
Country	India
Telephone	+91-33-40118400
Fax	+91-33-40118401
E-mail	dipankar.palit@athagroup.in
Website	-
Contact person	Mr. Dipankar Palit
Title	Head - Wind Energy
Salutation	Mr.
Last name	Palit
Middle name	-
First name	Dipankar
Department	-
Mobile	-
Direct fax	+91-33-40118401
Direct tel.	+ 91-33-40118461
Personal e-mail	dipankar.palit@athagroup.in

The roles and responsibilities of project team are presented below:



1.4 Other Entities Involved in the Project

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled "13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India.". Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

1.5 Project Start Date

For the project activity, the project start date is the earliest date of the commissioning of any wind mill (i.e. date on which the project actually began reducing or removing GHG emissions), in line with the VCS standard Version 3.3[2]. The date of commissioning of the 13 WTGs is 09/09/2011, 12/09/2011, 27/09/2011 & 28/09/2011. As the earliest date of commissioning is 09/09/2011 which is for the HTSC No. # 3853 hence VCS project start date for the project activity is 09/09/2011.

1.6 Project Crediting Period

For the GHG abatement project activity under consideration, the project start date has been considered as the crediting period start date, i.e., the date on which the project began generating GHG emission reductions or removals which as defined in section 1.5 of the PD, is the earliest of the dates of the commissioning of the WTGs by the TANGEDCO. As per information furnished in the table in Section 1.7 of this document, it is established that the crediting period start date and end dates are 09/09/2011 and 08/09/2021.

Crediting Period: 10 years

[2] http://v-c-s.org/sites/v-c-s.org/files/VCS%20Standard%2C%20v3.3.pdf

The VCUs accumulated for the project activity from the date of crediting period would be claimed under the VCS mechanism. Furthermore, the above mentioned project activity has not participated under any other GHG program, apart from Clean Development Mechanism and Verified Carbon Standard. PP will not claim benefits of carbon emission reduction credits achieved through the wind project activity under any other GHG programme for the crediting period claimed under VCS.

1.7 Project Scale and Estimated GHG Emission Reductions or Removals

Project	√
Large project	Not Applicable

Emission Reduction Calculation:

The emission reduction ER_y by the project activity during a given year y is the difference between the baseline emissions (BE_y) and project emissions (PE_y) and leakage emissions (LE_y).

$ER_y = BE_y – PE_y – LE_y$ ..... (eq.1)

Where,
ER_y = Emission reductions in year y (tCO2e /yr)
BEy = Baseline emissions in year y (tCO2e /yr)
PE_y = Project activity emission in year y (tCO2e /yr)
LE_y = Estimation of leakage emissions in year y (tCO2e / yr)

Leakage Emissions:
As per the methodology AMS-I.D./ Version 17,
“If the energy generating equipment is transferred from another activity, leakage is to be considered”.

There are no anthropogenic emissions identified by sources outside the project boundary due to the project activity. Furthermore, the equipment (WTGs) used by the project activity are newly procured and hence not transferred from another project. Thus, there are no leakage emissions attributable to the project activity.

Hence,
$LE_y = 0$..... (eq.2)

As LE_y is zero,
$ER_y = BE_y – PE_y$ ..... (eq.3)

Baseline emissions are given as:
$BE_y = EG_{BL,y} \times EF_{CO2,\ grid,y}$..... (eq.4)

Where,
$EG_{BL,y}$ = Energy baseline in year ‘y’ i.e. net quantity of electricity exported to the grid in year ‘y’ by the project activity.
$EF_{CO2,\ grid,y}$ = CO2 Emission Factor in year ‘y ’

In line with paragraph 11 of the Approved small scale methodology AMS I.D. (Version 17, EB 61), the CO2 Emission Factor has been calculated as 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' .

Also CO_2 Baseline Database Version 7, Date – January 2012, published by Central Electricity Authority (hereafter CEA Database) has been referred for calculating the same.

Here,

$EF_{CO2, grid,y} = EF_{CO2, CM,y}$ ..... (eq.5)

Therefore,

$EF_{CO2,grid, y} = 0.8970\ tCO_2e/MWh$

- Net quantity of electricity supplied by the project ($EG_{BL,y}$):

Assumptions for calculation of Net Electricity Generation		
Unit	**Value**	**Reference**
No. of WTGs	13	Purchase Order
Total Installed capacity	13.65 MW	Purchase Order
Plant Load Factor (PLF)	25%	As per Third party PLF report dated December 2012 prepared by Inkwest Management consultants Pvt. Ltd.

- Estimation of Net Electricity generated in a year by the project activity:

Sl. No.	Parameter	Figures	Units
1	Electricity Generated per annum	29,893,500	kWh/year
		29,893.5	MWh/year

Therefore, Net Electricity Generated ($EG_{BL,y}$) per annum by the project activity is:

$EG_{BL,y} = 29,893.5$ MWh/year
Therefore, Baseline Emissions:
According to eq.4:
$BE_y = EG_{BL,y} \times EF_{CO2,}$
$BE_y = 29893.5 \times 0.8970 = 26,813\ tCO_2e/year$

Project Emissions:

As the project activity is a wind power project, there are no anthropogenic emissions by sources of GHGs within the project boundary as a result of the project activity. Hence there are no project emissions to be considered.
Therefore,
$PE_y = 0$ ..... (eq.6)

From eq.1:

$ER_y = BE_y – PE_y – LE_y$

$ER_y = BE_y – 0 – 0$

$ER_y = 26,813$ tCO2e/year

Therefore, total emission reductions achieved due to the project activity is 26,813 tCO2e/year

Emission Reductions:

Parameter	Figures	Units
Baseline emissions	26,813	tCO_2e/year
Project Emissions	0	
Emission Reductions	26,813	

Years	Estimated GHG emission reductions or removals (tCO_2e)
9th Sep 2011 – 8th Sep 2012	26,813
9th Sep 2012 – 8th Sep 2013	26,813
9th Sep 2013 – 8th Sep 2014	26,813
9th Sep 2014 – 8th Sep 2015	26,813
9th Sep 2015 – 8th Sep 2016	26,813
9th Sep 2016 – 8th Sep 2017	26,813
9th Sep 2017 – 8th Sep 2018	26,813
9th Sep 2018 – 8th Sep 2019	26,813
9th Sep 2019 – 8th Sep 2020	26,813
9th Sep 2020 – 8th Sep 2021	26,813
Total estimated ERs	268,130
Total number of crediting years	10
Average annual ERs	26,813

1.8 Description of the Project Activity

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

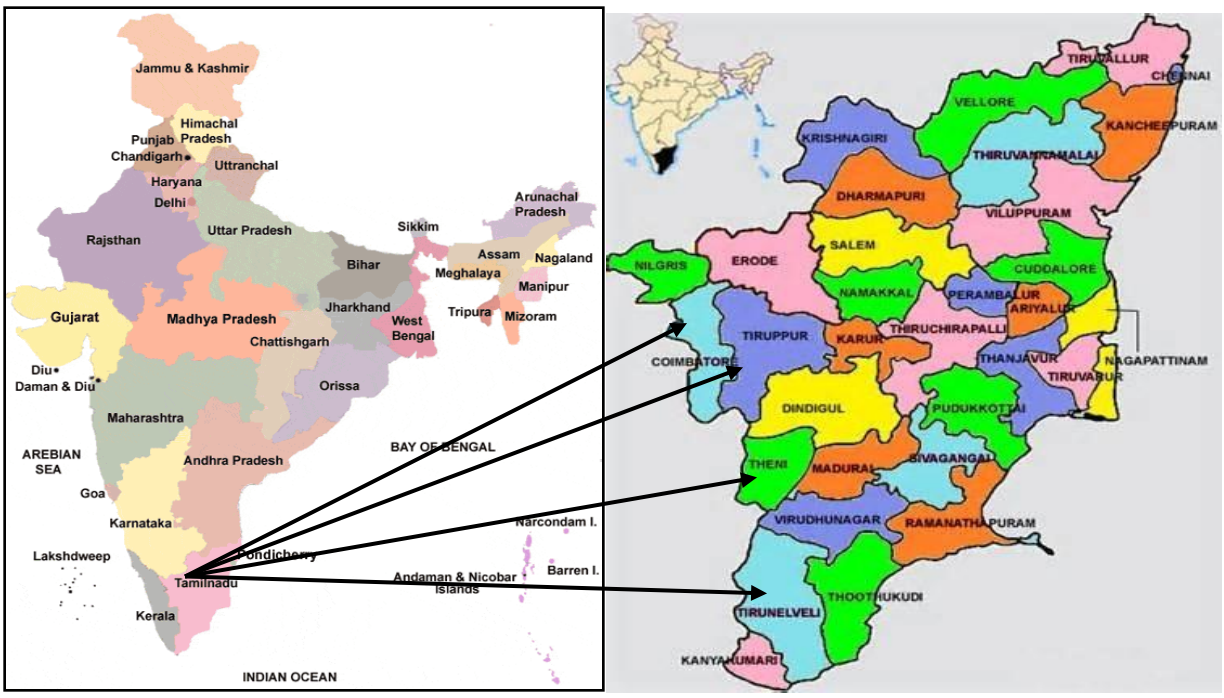
1.9 Project Location

Country: India
Region/State/Province etc.: Tamil Nadu
City/Town/Community etc.:
Village: Virugalpatti, Mulanur, Anikadavu,Thadicheri, Ettankulam, Pudur and Madhavakurichi
District: Tirunelveli, Tirupur, Theni and Coimbatore
State: Tamil Nadu

The total capacity of the project activity is 13.65 MW. Details of physical Location, including information allowing the unique identification of this small scale project activity:

Sl. No	Location No.	HTSC No.	WTG Capacity (MW)	Commissioning Date	Village	District, State	Geographical Coordinates	
							Latitude	Longitude
1	KN-103	U 2156	0.85	28/09/2011	Virugalpatti	Tiruppur Tamil Nadu	N10°42'31.5″	E77°08'30.3″
2	KN-118	U 2157	0.85	28/09/2011	Mulanur	Coimbatore Tamil Nadu	N10°42'21.7″	E77°08'29.5″
3	KN-79	U 2158	0.85	28/09/2011	Mulanur	Coimbatore Tamil Nadu	N10°42'42.4″	E77°08'11.2″
4	KN-417	U 2155	0.85	28/09/2011	Anikadavu	Tiruppur Tamil Nadu	N10°44'04.7″	E77°10'00.0″
5	KN-431	U 2154	0.85	28/09/2011	Anikadavu	Tiruppur Tamil Nadu	N10°43'51.6″	E77°09'58.9″
6	KN-521	U 2153	0.85	28/09/2011	Anikadavu	Tiruppur Tamil Nadu	N10°44'28.4″	E77°09'13.3″
7	KN-556	U 2152	0.85	28/09/2011	Anikadavu	Tiruppur Tamil Nadu	N10°43'59.6″	E77°08'57.0″
8	KN-60	GAII-T 52	0.85	27/09/2011	Thadicheri	Theni Tamil Nadu	N9°56'29.5″	E77°27'38.3″
9	KN-220	GAII–T 53	0.85	27/09/2011	Thadicheri	Theni Tamil Nadu	N9°56'29.7″	E77°29'22.2″
10	M46	3900	1.5	27/09/2011	Ettankulam	Tirunelveli Tamil Nadu	N8° 52'12.5″	E77°37'12.8″
11	M130	3864	1.5	12/09/2011	Pudur	Tirunelveli Tamil Nadu	N8° 49'06.1″	E77°35'49.9″
12	M188	3853	1.5	09/09/2011	Madhavakurichi	Tirunelveli Tamil Nadu	N8° 48'55.6″	E77°37'51.2″
13	M197	3909	1.5	28/09/2011	Madhavakurichi	Tirunelveli Tamil Nadu	N8° 48'57.3″	E77°38'35.2″

The physical location of the site is shown in the maps depicted below:



1.10 Conditions Prior to Project Initiation

Pre-Project Scenario:

The project is a Greenfield power generation project where no renewable power had been generated prior to the project activity. Also there was no other kind of occupancy in terms of any other industrial project, dwelling of local people at the project site etc. The project activity has been commissioned on unused land where there was no need to demolish any existing structure. Hence, in the pre-project scenario there was barren unoccupied land where the WTGs stand now.

In the absence of the project activity, the same amount of electricity would have been generated from the connected power plants in the southern grid, which are predominantly based on fossil fuel. Thus, the project activity achieves considerable amount of the GHG emission reduction into the atmosphere due to electricity generation using wind as a renewable energy source. The project activity has not been implemented to generate GHG emissions for the purpose of their subsequent reduction, removal or destruction.

1.11 Compliance with Laws, Statutes and Other Regulatory Frameworks

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

1.12 Ownership and Other Programs

1.12.1 Right of Use

Khatau Narbheram & Co. is the project proponent (PP) who is authorized to do all the activities related to VCS verification. The PP is the owner of the WTGs which is evident from the Purchase Orders. The PP has signed the Power Purchase Agreements with TANGEDCO for sale of the electricity generated from this project activity. PP has also bought the land for development of the project activity which is evident from the Land sale deeds. The Host Country Approval (HCA) letter dated 24 Dec, 2012 (No: 4/12/2012-CCC) from Ministry of Environment and Forest Government of India (MOEF) has been received by the PP for the project activity under CDM. Further, the emission reduction generated from this project activity will also be solely claimed by the Project Proponent. Thus, it can be established that the PP has the right of use.

1.12.2 Emissions Trading Programs and Other Binding Limits

Net GHG emission reductions or removals generated by this project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions as the host country is not a participant in any emission trading programs or does not has any binding limits. PP has submitted a self-declaration for the same.

1.12.3 Participation under Other GHG Programs

The project activity is currently submitted for request for registration under CDM cycle with UNFCCC. However, the project has not participated under any other GHG program other than CDM and VCS. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”.

For this project activity, the GHG abatement benefits (CERs/VCUs) for any particular duration of time will be claimed only under one GHG abatement scheme (CDM/VCS). PP will not claim benefits of carbon emission reduction credits achieved through the wind project activity under any other GHG programme for the crediting period claimed under VCS.

1.12.4 Other Forms of Environmental Credit

The above mentioned project activity has not participated under any other GHG program, apart from Clean Development Mechanism and Verified Carbon Standard. It is to be noted that for the WTG under consideration that the GHG abatement benefits (CERs/VCUs) for any particular duration of time will be claimed only under one GHG abatement scheme (CDM/VCS). PP will not claim benefits of carbon emission reduction credits achieved through the wind project activity under any other GHG programme for the crediting period claimed under VCS. Also the project has not generated any other form of environmental credit and a declaration for the same has been submitted by the PP.

1.12.5 Projects Rejected by Other GHG Programs

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

1.13 Additional Information Relevant to the Project

Eligibility Criteria

As per the paragraph 3.4.9 of the VCS Standard Version 3.3, the eligibility criteria are applicable for grouped project activities. The project activity is not a grouped project. Hence the section is not applicable.

Leakage Management

As per the applicable approved methodology AMS I.D. (version 17), leakage is to be considered if the energy generating equipment is transferred from another activity. The project activity is a green field wind power generation facility and the energy generating equipment used in the project activity has not been transferred from any other activity. Hence, leakage is not considered. $L_y = 0$

There are no risks involved in the project activity; hence no risk mitigation measures have been taken.

Commercially Sensitive Information

There is no commercial sensitive information for this project activity.

Further Information

The project activity under consideration complies with the applicable regional and national level legal and regulatory requirements for installation and operation of the wind-farms. The same is listed as follows:

Sl No.	Clearance / Approval /Agreement	Clearance / Approval Authority	Date of document
1	Commissioning Certificate obtained for the WTGs under consideration	Tamil Nadu Generation and Distribution Corporation Ltd. (TANGEDCO)	14/10/2011
			07/12/2011
			07/12/2011
			07/12/2011
			14/10/2011
			07/12/2011
			07/12/2011
			07/12/2011
			07/12/2011
			15/10/2011
			15/10/2011
			15/10/2011
			15/10/2011
2	Host Country Approval	Ministry of Environment & Forests (MoEF)	24/12/2012
3	Wind Energy Purchase Agreement	TANGEDCO	19/10/2011
			19/10/2011
			19/10/2011
			19/10/2011

Sl No.	Clearance / Approval /Agreement	Clearance / Approval Authority	Date of document
			27/09/2011
			27/09/2011
			28/09/2011
			28/09/2011
			28/09/2011
			28/09/2011
			28/09/2011
			28/09/2011
			28/09/2011

The documents related to relevant statutory clearances would be made available to the validator during the time of the validation.

The project also fulfils several sustainable development objectives as illustrated below:

Social well-being:

- The social well-being is assessed by the contribution of the project activity towards improvement in the living standards of the local community. Project activities like wind power generation provides job opportunities to the local population thus contributing towards social upliftment of the local community.

- This project activity has also led to the development of basic amenities leading to improvement in living standards of the local population. Thus the project activity has contributed to social well-being.

Economic well-being:

- Wind farms need large area. Thus, the procurement of land by the various project promoters, has led to the appreciation of land value benefiting the landowners and local community directly. These lands were generally unproductive. Most of the wind energy potential areas are remotely located areas and are largely unfertile. These lands generally command low prices. But due to the land demand for wind farms, the land prices have increased leading to economic well-being of the local community.

- The project activity has created direct and indirect job opportunities to the local community during installation and operation of the WEGs. The investment for the project activity has increased the economic activity of the local area. The above have contributed to the economic well-being and social well-being of the local community.

Environmental well-being:

- The project activity produces electricity without any greenhouse gas (GHG) emissions. Additionally, the project activity generates electricity from a ‘renewable energy source’. The renewable energy source is generally defined as a source of energy that gets replenished naturally and does not suffer permanent depletion due to use.

Technological well-being:

- Advent of wind power projects in India will further enhance research and development (R&D) efforts by technology providers to develop more efficient and better machinery in future.
- Overall technological well-being and development of the emission-free energy sector..

2 APPLICATION OF METHODOLOGY

2.1 Title and Reference of Methodology

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

2.2 Applicability of Methodology

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

2.3 Project Boundary

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

2.4 Baseline Scenario

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

2.5 Additionality

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

2.6 Methodology Deviations

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

3 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

3.1 Baseline Emissions

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

3.2 Project Emissions

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

3.3 Leakage

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

3.4 Summary of GHG Emission Reductions and Removals

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

4 MONITORING

4.1 Data and Parameters Available at Validation

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

4.2 Data and Parameters Monitored

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

4.3 Description of the Monitoring Plan

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and

is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

5 ENVIRONMENTAL IMPACT

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.

6 STAKEHOLDER COMMENTS

The project activity has already received positive CDM validation by the DOE and has been submitted to UNFCCC for registration. The reference no. of the CDM project activity is 9715 and is titled “13.65 MW Wind Power Project of Khatau Narbheram & Co. in Tamil Nadu, India”. Hence, as per the first paragraph of section 3.11.8 of the VCS Standard Version 3.3, this section is not required.