



## Voluntary Carbon Standard Project Description

**19 November 2007**

*[Date of the VCS PD-29/01/2010]*

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## 1 Description of Project:

### 1.1 Project title

10 MW Wind Power Project in Maharashtra by Deepak Fertilizers and Petrochemicals Corporation Limited.

### 1.2 Type/Category of the project

As defined under Appendix B of the simplified modalities and procedures for small-scale CDM project activities, the project activity proposes to apply following project types and categories:

Type : I – Renewable Energy Projects  
 Project Category : I.D. – Grid connected renewable electricity generation  
 (Version 13: 14 December 2007)

The project is a renewable energy project generating electricity (Type ID) – the monitoring methodology and baseline have been selected as suggested in the document ‘Simplified Modalities and Procedures for Small-Scale CDM project activities’

The project is not a grouped project.

### 1.3 Estimated amount of emission reductions over the crediting period including project size:

| Years                                                                                     | Estimation of annual emission reductions in tonnes of CO <sub>2</sub> e |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 2009                                                                                      | 14,313                                                                  |
| 2010                                                                                      | 14,313                                                                  |
| 2011                                                                                      | 14,313                                                                  |
| 2012                                                                                      | 14,313                                                                  |
| 2013                                                                                      | 14,313                                                                  |
| 2014                                                                                      | 14,313                                                                  |
| 2015                                                                                      | 14,313                                                                  |
| 2016                                                                                      | 14,313                                                                  |
| 2017                                                                                      | 14,313                                                                  |
| 2018                                                                                      | 14,313                                                                  |
| Total estimated reductions (tonnes of CO <sub>2</sub> e)                                  | 143130                                                                  |
| Total number of crediting years                                                           | 10                                                                      |
| Annual average of the estimated reductions over the crediting period (tCO <sub>2</sub> e) | 14,313                                                                  |

### 1.4 A brief description of the project:

The proposed project activity is a wind power project of 10 MW installed capacity in the State of Maharashtra by M/s Deepak Fertilisers and Petrochemical Corporation Ltd. (hereafter DFPCCL or project participant). It consists of eight wind electricity generators (WEGs) of 1.25 MW capacity each.

The details of each of the WTGs are tabulated below:-

| WTG location no and commissioning date | Installed capacity | Make              | Village  | District  |
|----------------------------------------|--------------------|-------------------|----------|-----------|
| J087- 29.09.2006                       | 1.25               | Suzlon Model S-70 | Aichale  | Dhule     |
| J091- 29.09.2006                       | 1.25               | Suzlon Model S-70 | Aichale  | Dhule     |
| K441-29.09.2006                        | 1.25               | Suzlon Model S-70 | Dhandane | Nandurbar |
| K442-29.09.2006                        | 1.25               | Suzlon Model S-70 | Dhandane | Nandurbar |
| K513-29.09.2006                        | 1.25               | Suzlon Model S-70 | Wankute  | Nandurbar |
| K514-29.09.2006                        | 1.25               | Suzlon Model S-70 | Wankute  | Nandurbar |
| K478-29.09.2006                        | 1.25               | Suzlon Model S-70 | Mandal   | Nandurbar |
| K503-29.09.2006                        | 1.25               | Suzlon Model S-70 | Vavad    | Nandurbar |

The electricity generation from this project will contribute to GHG reductions estimated at 14,313 tCO<sub>2</sub>e p.a. over its estimated life of 20 years. It will evacuate approximately 17 million kWh of renewable power annually to the power deficit Western Region Grid (Now Integrated NEWNE Grid).

#### **1.5 Project location including geographic and physical information allowing the unique identification and delineation of the specific extent of the project:**

| WTG Location no | Village  | Taluka    | District  | Latitude      | Longitude     |
|-----------------|----------|-----------|-----------|---------------|---------------|
| J087            | Aichale  | Sakri     | Dhule     | 21°13'37.8" N | 74°22'37.6" E |
| J091            | Aichale  | Sakri     | Dhule     | 21°13'52" N   | 74°23'07.8" E |
| K441            | Dhandane | Nandurbar | Nandurbar | 21°18'33.4" N | 74°20'44.2" E |
| K442            | Dhandane | Nandurbar | Nandurbar | 21°19'47.6" N | 74°19'30.3" E |
| K513            | Wankute  | Nandurbar | Nandurbar | 21°19'56.1" N | 74°19'47.1" E |
| K514            | Wankute  | Nandurbar | Nandurbar | 21°20'34.0" N | 74°19'47.1" E |
| K478            | Mandal   | Nandurbar | Nandurbar | 21°19'40.8" N | 74°22'11.7" E |
| K503            | Vavad    | Nandurbar | Nandurbar | 21°20'01.9" N | 74°22'21.7" E |

#### **1.6 Duration of the project activity/crediting period:**

Crediting period for the project activity under VCS 2007.1 has been taken from 2007-04-24 to 2009-06-15, since this is a CDM registered project.

#### **1.7 Conditions prior to project initiation:**

No condition exists prior to the project initiation.

### 1.8 A description of how the project will achieve GHG emission reductions and/or removal enhancements:

The present project activity will evacuate approximately 17 million kWh of renewable power annually to the power deficit Western Region Grid (Now Integrated NEWNE Grid) to which the project activity is connected, the same amount of electricity, in absence of the project activity would otherwise be generated in the existing thermal power plants. The prevailing condition of electricity generation is apparent from the table1 below, where the total installed capacity is 138251.63 MW and the share of thermal is 89275.84. Hence almost 65% of the total generation in the Western Region Grid (Now Integrated NEWNE Grid) comes from thermal power plants.

Thus it can be safely concluded that the project activity leads to GHG emission reduction that would have occurred had the same amount of electricity been generated in grid connected thermal power plants.

| Region    | Hydro     | Thermal   |          |         |           | Nuclear  | Renew.   | Total     |
|-----------|-----------|-----------|----------|---------|-----------|----------|----------|-----------|
|           |           | Coal      | Gas      | Diesel  | Total     |          |          |           |
| Northern  | 12671.15  | 18,327.50 | 3,433.19 | 14.99   | 21,775.68 | 1,180.00 | 1220.18  | 36847.01  |
| Western   | 7198.50   | 23502.50  | 6600.72  | 17.48   | 30120.70  | 1,840.00 | 2670.34  | 41829.54  |
| Southern  | 10646.18  | 16182.50  | 3,586.30 | 939.32  | 20,708.12 | 1100.00  | 5899.33  | 38353.63  |
| Eastern   | 3048.93   | 15149.88  | 190.00   | 17.20   | 15357.08  | 0.00     | 227.81   | 18633.82  |
| N.Eastern | 1,116.00  | 330.00    | 771.50   | 142.74  | 1,244.24  | 0.00     | 146.01   | 2506.25   |
| Islands   | 0         | 0.00      | 0.00     | 70.02   | 70.02     | 0.00     | 11.36    | 81.38     |
| All India | 34,680.76 | 73492.38  | 14581.71 | 1201.75 | 89275.84  | 4120.00  | 10175.03 | 138251.63 |

Region wise installed capacity (MW) as on 30.11.2007.

### 1.9 Project technologies, products, services and the expected level of activity:

#### Technology

Wind has considerable amount of kinetic energy when blowing at high speeds. This kinetic energy when it passes through the blades of the wind turbines is converted into mechanical energy and rotates the wind blades. When the blades rotate, the connected generator also rotates, thereby producing electricity.

1 [http://www.cea.nic.in/planning/c%20and%20e/user\\_guide\\_ver3.pdf](http://www.cea.nic.in/planning/c%20and%20e/user_guide_ver3.pdf)

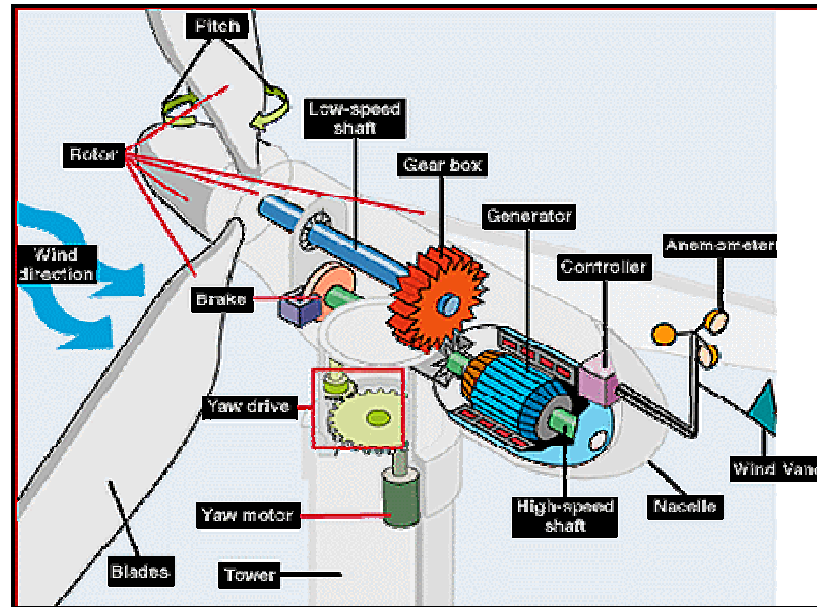


Figure- Major Mechanical Parts of a Wind Turbine

The technology is a clean technology since there are no GHG emissions associated with the electricity generation. The project involves 8 nos. Suzlon make WEGs, model S-70 of individual 1.25 MW capacities. Salient features of the model S70 WEGs are -

**Salient Features of 1.25 MW (S 70) WEG**

| Sr. No. | Particulars                 | Specifications                           |
|---------|-----------------------------|------------------------------------------|
| 1.      | Rotor diameter              | 69.1 m                                   |
| 2.      | Hub height                  | 74 m                                     |
| 3.      | Installed electrical output | 1250 kW                                  |
| 4.      | Cut-in wind speed           | 3 m/s                                    |
| 5.      | Rated wind speed            | 12 m/s                                   |
| 6.      | Cut-out wind speed          | 20 m/s                                   |
| 7.      | Rotor swept area            | 3750 m <sup>2</sup>                      |
| 8.      | Rotational speed            | 13.2/19.8                                |
| 9.      | Rotor material              | GRP                                      |
| 10.     | Regulation                  | Pitch                                    |
| 11.     | Generator                   | Asynchronous Generator, 4/6 poles        |
| 12.     | Rated output                | 250/1250 kW                              |
| 13.     | Rotational speed            | 1010/1515 rpm                            |
| 14.     | Operating voltage           | 690 V                                    |
| 15.     | Frequency                   | 50 Hz                                    |
| 16.     | Protection                  | IP 56                                    |
| 17.     | Insulation class            | H                                        |
| 18.     | Cooling system              | Air cooled                               |
| 19.     | Gear box                    | 3-stage gearbox, 1 planetary & 2 helical |
| 20.     | Manufacturer                | Winergy                                  |
| 21.     | Gear ratio                  | 77.848                                   |
| 22.     | Nominal load                | 1390 kW                                  |
| 23.     | Type of cooling             | Oil cooling system                       |
| 24.     | Yaw drive system            | 4 active electrical yaw motors           |

|       |                   |                                                                                                    |
|-------|-------------------|----------------------------------------------------------------------------------------------------|
| 25.   | Yaw bearing       | Polyamide slide bearing                                                                            |
| 26.   | Safety system     |                                                                                                    |
| 26.1. | Aerodynamic brake | 3 times independent pitch regulation                                                               |
| 26.2  | Mechanical brake  | Spring power disc brake, hydraulically released, fail safe. Microprocessor controlled, indicating. |
| 27.   | Control unit      | Actual operating conditions, UPS back-up system                                                    |
| 28.   | Tower             | Tubular                                                                                            |
| 29.   | Design standards  | GL/IEC                                                                                             |

The 1.25 MW S-70 windmills used in the project have been developed indigenously by Suzlon Energy Limited and no transfer of technology is involved.

No technology transfer has taken place with respect to the present project activity.

### **Product**

The energy generated will be in terms of KWh of electricity.

### **Service**

This project generates electrical energy which is being evacuated to the local grid.

### **Expected level of activity**

The present project activity will evacuate approximately 17 million kWh of renewable power annually to the power deficit Western Region Grid (Now Integrated NEWNE Grid)

### **1.10 Compliance with relevant local laws and regulations related to the project:**

The present project activity is in compliance with all the relevant local laws and regulation

### **1.11 Identification of risks that may substantially affect the project's GHG emission reductions or removal enhancements:**

There is no risk involved in the project activity.

### **1.12 Demonstration to confirm that the project was not implemented to create GHG emissions primarily for the purpose of its subsequent removal or destruction.**

The project activity will utilize wind energy to generate electricity. This will lead to reduced dependency on grid for electricity generation and hence reduce associated emissions. The project is primarily taken up as GHG abatement project. The project does not utilize any fossil fuel thereby leading to zero GHG emissions.

The project promoter has also submitted an undertaking on the same which can be referred from Annex 1.

### **1.13 Demonstration that the project has not created another form of environmental credit (for example renewable energy certificates).**

The project has been purely taken up as CDM project and has not been applied for any form of environmental credit. The project is registered as reference number 2540 at UNFCCC. An undertaking from the promoter has been attached in Annex 1 of the PD.

**1.14 Project rejected under other GHG programs (if applicable):**

The project activity was registered under CDM on 16<sup>th</sup> June 2009; UNFCCC Reference Number 2540 (link <http://cdm.unfccc.int/Projects/DB/SGSUKL1240498237.32/view>). The project has neither been applied under any other mechanism, nor has been rejected by any mechanism.

**1.15 Project proponents roles and responsibilities, including contact information of the project proponent, other project participants:****Roles and responsibilities:**

The project promoter has the ownership of the project. The PP with the help of O & M contractor will record the entire data required for the calculation of GHG emission reduction due to the project and will be made available to the DOE during the verification process.

|                  |                                                       |
|------------------|-------------------------------------------------------|
| Organization:    | Deepak Fertilisers and Petrochemical Corporation Ltd. |
| Street/P.O.Box:  | Opp. Golf Course, Shastri Nagar                       |
| Building:        | Yerwada                                               |
| City:            | Pune                                                  |
| State/Region:    | Maharashtra                                           |
| Postfix/ZIP:     | 411006                                                |
| Country:         | INDIA                                                 |
| Telephone:       | +91-20-66458000                                       |
| FAX:             | +91-020-26683723                                      |
| E-Mail:          | dbanerjee@deepakfertilisers.com                       |
| URL:             | www.dfpcl.com                                         |
| Represented by:  |                                                       |
| Title:           | Vice President: Finance and Accounts                  |
| Salutation:      | Mr.                                                   |
| Last Name:       | Banerjee                                              |
| Middle Name:     | --                                                    |
| First Name:      | D.                                                    |
| Department:      | Management                                            |
| Mobile:          | +91-9657727401                                        |
| Direct FAX:      | +91-20- 26683723                                      |
| Direct tel:      | +91-20- 66458070                                      |
| Personal E-Mail: | --                                                    |

**1.16 Any information relevant for the eligibility of the project and quantification of emission reductions or removal enhancements, including legislative, technical, economic, sectoral, social, environmental, geographic, site-specific and temporal information.):**

The following information pertains to the eligibility of the project and quantification of emission reductions or removal enhancements:

**Legislative:** Policy support for grid interactive renewable power

Electricity Act 2003<sup>2</sup>

<sup>2</sup> [http://www.powermin.nic.in/acts\\_notification/electricity\\_act2003/pdf/The%20Electricity%20Act\\_2003.pdf](http://www.powermin.nic.in/acts_notification/electricity_act2003/pdf/The%20Electricity%20Act_2003.pdf)

Section 86. (1): The State Commission shall discharge the following functions....  
(e):promote cogeneration and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person, and also specify, for purchase of electricity from such sources, a percentage of the total consumption of electricity in the area of a distribution licensee;

#### National Electricity Policy 2005<sup>3</sup>

The National Electricity Policy 2005 stipulates that progressively the share of electricity from non-conventional sources would need to be increased; such purchase by distribution companies shall be through competitive bidding process; considering the fact that it will take some time before non-conventional technologies compete, in terms of cost, with conventional sources, the commission may determine an appropriate deferential in prices to promote these technologies.

#### Tariff Policy 2006<sup>4</sup>

The Tariff Policy announced in January 2006 has the following provision:

Pursuant to provisions of section 86 (1) (e) of the Act, the Appropriate Commission shall fix a minimum percentage for purchase of energy from such sources taking into account availability of such resources in the region and its impact on retail tariffs. Such percentages for purchase of energy should be made applicable for the tariffs to be determined by the SERCs latest by April 01, 2006.

**Technical:** Grid emission factor used for calculating emission reduction values has been referred from CO<sub>2</sub> Baseline Database for the Indian Power Sector; User Guide Version 3.0 published by Central Electricity Authority.

### **1.17 List of commercially sensitive information (if applicable):**

Not applicable.

## **2 VCS Methodology:**

### **2.1 Title and reference of the VCS methodology applied to the project activity and explanation of methodology choices:**

**Project Type** : I – Renewable Energy Projects  
**Project Category:** D – Grid connected renewable electricity generation (Version 13: 14 December 2007)  
**Reference** : Appendix B of the simplified M&P for small-scale CDM project activities (UNFCCC, 2003b)

### **2.2 Justification of the choice of the methodology and why it is applicable to the project activity:**

Requirements with respect to technology/measure under AMS I.D. – Grid connected renewable electricity generation (Version 13: 14 December 2007)

<sup>3</sup> <http://pib.nic.in/archieve/others/2005/nep20050209.pdf>

<sup>4</sup> <http://www.karmayog.org/redirect/strred.asp?docId=2176>

- This category comprises renewable energy generation units, such as photovoltaics, hydro, tidal/wave, wind, geothermal and renewable biomass, that supply electricity to and/or displace electricity from an electricity distribution system that is or would have been supplied by at least one fossil fuel fired generating unit.
- If the unit added has both renewable and non-renewable components (e.g.. a wind/diesel unit), the eligibility limit of 15MW for a small-scale CDM project activity applies only to the renewable component. If the unit added co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15MW.
- Combined heat and power (co-generation) systems are not eligible under this category.
- 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.
- Project activities that seek to retrofit or modify an existing facility for renewable energy generation are included in this category. To qualify as a small scale project, the total output of the modified or retrofitted unit shall not exceed the limit of 15 MW.

**Justification:**

The installed capacity of the project is 10 MW, which is less than the limiting capacity of 15 MW and is thus eligible to use small-scale simplified methodologies. Further, the project activity supplies electricity to Western Region Grid, where major part of electricity comes from non-renewable electricity generation. Hence, the type and category of the project activity matches with I.D. as specified in Appendix B of the indicative simplified baseline and monitoring methodologies for small-scale CDM project activities.

**2.3 Identifying GHG sources, sinks and reservoirs for the baseline scenario and for the project:**

Project boundary specified in the Appendix B of simplified modalities and procedures is that which encompasses the physical and geographical site of the renewable generation source. This includes the wind turbine installation, pooling and MSEDCL sub-stations. The proposed project activity evacuates the power to Western Region Grid. Therefore, all the power plants contributing electricity to the Western Region Grid are taken in the connected (project) electricity system for the purpose of baseline estimation. The meter which is used to measure the electricity supplied to grid is at substation and is an integral part of project boundary.

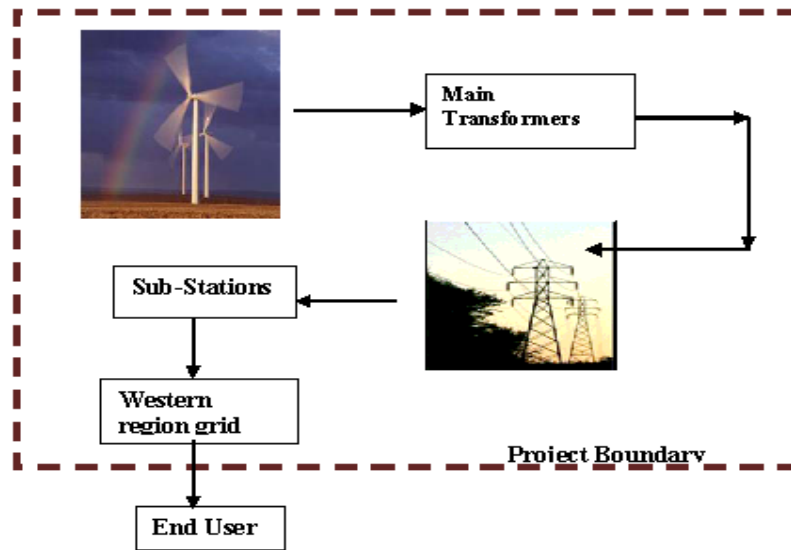


Figure- Project Boundary

## 2.4 Description of how the baseline scenario is identified and description of the identified baseline scenario:

### Baseline Estimation:

Baseline for projects under Type I.D has been detailed in paragraphs 7-11(Type I.D) of the above-mentioned document. Paragraph 9 (Type I.D) applies to this project activity, which states that:

The baseline for all other projects (excluding landfill gas, waste gas, waste water treatment, agro- industry projects and projects where all generators use exclusively fuel oil and/or diesel fuel) is the kWh produced by the renewable generating unit multiplied by an emission coefficient (measured in kg CO<sub>2</sub>equ/kWh) calculated in a transparent and conservative manner as:

- 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 kg CO<sub>2</sub>equ/kWh) of the current generation mix. (The data of the year in which project generation occurs must be used)

*Baseline emission reductions have been estimated using weighted average emissions (in tCO<sub>2</sub> equ/MWh) for the Western Region Grid.*

Following information is used for baseline determination:

| Sr. No. | Key information/data used for baseline | Source of data/information                                    |
|---------|----------------------------------------|---------------------------------------------------------------|
| 1.      | Electricity generated                  | Monthly Meter Reading                                         |
| 2       | Western Region Grid                    | CO <sub>2</sub> Baseline Database for the Indian Power Sector |

|  |  |                                                                                            |
|--|--|--------------------------------------------------------------------------------------------|
|  |  | User Guide <sup>5</sup> - Version 3<br>Central Electricity Authority, Government of India. |
|--|--|--------------------------------------------------------------------------------------------|

**2.5 Description of how the emissions of GHG by source in baseline scenario are reduced below those that would have occurred in the absence of the project activity (assessment and demonstration of additionality):**

This is a CDM registered project, please refer to section B.5 of the registered CDM PDD.

### 3 Monitoring:

**3.1 Title and reference of the VCS methodology (which includes the monitoring requirements) applied to the project activity and explanation of methodology choices:**

AMS I.D. – Grid connected renewable electricity generation ,Version 13: 14 December 2007 is used.

**3.2 Monitoring, including estimation, modelling, measurement or calculation approaches:**

Please refer to section B.7.2 of the registered CDM PDD.

**3.3 Data and parameters monitored / Selecting relevant GHG sources, sinks and reservoirs for monitoring or estimating GHG emissions and removals:**

Please refer to section B.7.1 of the registered CDM PDD.

**3.4 Description of the monitoring plan**

Please refer to section B.7.2 of the registered CDM PDD.

### 4 GHG Emission Reductions:

**4.1 Explanation of methodological choice:**

Please refer to section B.6.1 Explanation of methodological choices *of the registered CDM PDD*.

**4.2 Quantifying GHG emissions and/or removals for the baseline scenario:**

Please refer to section B.6.3 Ex-ante calculation of emission reductions *of the registered CDM PDD*.

**4.3 Quantifying GHG emissions and/or removals for the project:**

Please refer to section B.6.3 Ex-ante calculation of emission reductions *of the registered CDM PDD*.

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<sup>5</sup> <http://www.cea.nic.in/planning/c%20and%20e/Government%20of%20India%20website.htm>

#### 4.4 Quantifying GHG emission reductions and removal enhancements for the GHG project:

Quantification of the project emission, baseline emission, leakage and emission reduction from the project activity is summarized below:

| Year                                  | Project Emission (tonnes CO <sub>2</sub> e /yr.) | Baseline Emissions (tonnes CO <sub>2</sub> e /yr.) | Leakage (tonnes CO <sub>2</sub> e / yr.) | Emission Reductions (tonnes CO <sub>2</sub> e /yr.) |
|---------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------------|
| 2009                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2010                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2011                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2012                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2013                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2014                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2015                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2016                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2017                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| 2018                                  | 0                                                | 14,313                                             | 0                                        | 14,313                                              |
| <b>Total (tonnes CO<sub>2</sub>e)</b> | <b>0</b>                                         | <b>143130</b>                                      | <b>0</b>                                 | <b>143130</b>                                       |

#### 5 Environmental Impact:

Please refer to section D. Environmental impacts *of the registered CDM PDD*.

#### 6 Stakeholders comments:

Please refer to section E. Stakeholders' comments *of the registered CDM PDD*.

#### 7 Schedule:

Chronological plan for the date of initiating project activities, date of terminating the project, frequency of monitoring and reporting for VCS 2007.1 is as follows.

| Start Date | Termination Date | Frequency of monitoring and reporting | Project life |
|------------|------------------|---------------------------------------|--------------|
| 2007-04-24 | 2009-06-15       | For the entire Vintage.               | 20 Years     |

| S. N o. | Date        | Event                                                               | Reference                                                                                                                                                                                 |
|---------|-------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | 07/06/2006  | Released Purchase Order for the WTGs                                | Purchase Order dated 07/06/2006                                                                                                                                                           |
| 2       | 29/09/2006  | Commissioning of the project activity                               | Commissioning certificates SE/DHL/Tech/Wind/No 8166 and SE/DHL/Tech/Wind/No 8171 dated 30/09/2006                                                                                         |
| 3       | 06/11/2006  | Signing of Power Purchase Agreement                                 | Wind Energy Purchase Agreement between DFPCL 10 MW and MSEDCL                                                                                                                             |
| 4       | 05/06/2007  | Stakeholders consultation meeting                                   | Invitation letter for stakeholders meeting dated 25/05/2007                                                                                                                               |
| 5       | 09/04/2008  | HCA accorded                                                        | Host Country Approval Document                                                                                                                                                            |
| 6       | 12/05/2008  | Agreement with DOE for validation services                          | Copy of work order                                                                                                                                                                        |
| 7       | 12/06/2008  | Web hosting of the project for international stakeholders' comments | <a href="http://cdm.unfccc.int/Projects/Validation/DB/W1715YOXN98VYVOMSIKQN9P6FD5C58/view.html">http://cdm.unfccc.int/Projects/Validation/DB/W1715YOXN98VYVOMSIKQN9P6FD5C58/view.html</a> |
| 8.      | 16 /06/2009 | Registration of the project to CDM EB                               | <a href="http://cdm.unfccc.int/Projects/DB/SGS-UKL1240498237.32/view">http://cdm.unfccc.int/Projects/DB/SGS-UKL1240498237.32/view</a>                                                     |

Project activity will avail CDM benefits from the date of registration to the CDM EB i.e. 16/06/2009.

## 8 Ownership:

### 8.1 Proof of Title:

The evidence of proof of title is the Power Purchase Agreement (PPA) between Project promoter and the Maharashtra state utility, MSEDCL<sup>6</sup>.

### 8.2 Projects that reduce GHG emissions from activities that participate in an emissions trading program (if applicable):

Not Applicable. The project has been registered at UNFCCC as reference number: 2540. The project is also approved by DNA and copy of the same has been submitted to the DOE.

<sup>6</sup> The same has been submitted to the DOE

ANNEXURE 1- Letter of Undertaking



**DEEPAK FERTILISERS  
AND PETROCHEMICALS CORPORATION LIMITED**

REGISTERED OFFICE :  
Opp. Golf Course, Shastri Nagar, Yerawada, Pune - 411 006, India.  
Tel. : +91-20-8845 8000 Fax : 2868 3723  
Internet : www.dfpc.com

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Letter of Under-taking

We undertake that the "10 MW Wind Power Project in Maharashtra by Deepak Fertilisers and Petrochemicals Corporation Limited" is not implemented to create GHG emissions primarily for the purpose of its subsequent removal or destruction.

Further, the project is voluntary and hence not part of any legal or regulatory requirement. Also, the project has not generated another form of environmental credit.

For Deepak Fertilisers  
And Petrochemicals Corporation Limited

D Banerjee  
Vice-President: Finance and Accounts

Dated: 14<sup>th</sup> September, 2009

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