

SUZLON 8.40 MW WIND POWER PROJECT

Document Prepared By EKI Energy Services Limited

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|--------------------------|--|
| Project Title | <i>Suzlon 8.40 MW Wind Power Project</i> |
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| Report ID | NA |
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| Monitoring Period | 31-December-2010 to 18-October-2012(both day included) |
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1 PROJECT DETAILS

1.1 Summary Description of Project

The project activity is promoted by Kishangarh Hi-tech Textile Park Ltd. The project activity involves supply, erection, commissioning and operation of 4 Wind Turbine Generators (WTGs) of 2100 kW each at District Jaisalmer in Rajasthan; all WTGs are supplied and manufactured by Suzlon Energy Limited.

Kishangarh Hi-tech Textile Park Ltd. (KHTPL) has signed up an Energy Wheeling Agreement (EWA) with Rajasthan Rajya Vidyut Prasaran Nigam Limited and the power generated will be wheeled for utilization at KHTPL's state-of-the-art hi-tech integrated textile park being developed at Kishangarh (Dist. Ajmer) in Rajasthan.

The main purpose of the project activity is to generate electrical energy through sustainable means using wind power resources, to utilize the generated output for selling it to the third party and to contribute to climate change mitigation efforts.

The owner of the WTGs is:-

| Project Proponents' Name | Capacity in MW | Make/Model | Commissioning Date |
|--------------------------------------|----------------|------------|--------------------|
| Kishangarh Hi-tech Textile Park Ltd. | 2.1 X 4 | S-88 | 31/12/2010 |

The project was registered at UNFCCC (Ref. No. 7804) on 19-October-2012 and the details of the same can be viewed on <https://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1350651308.1/view>.

The expected operational lifetime of the project is for 20 years. The total emission reductions achieved under this monitoring period is 25,473 tCO₂.

1.2 Sectoral Scope and Project Type

The project activity involves generation of grid connected electricity from renewable wind energy. Since the project activity capacity is 8.40 MW, which is less than the maximum qualifying capacity of 15 MW for a small scale project. Therefore the project activity may be categorized in Scope Number 1, Sectoral Scope - Energy industries (renewable - / non-renewable sources).

Project Type : I – Renewable Energy Projects
Project Category : D. – Grid connected renewable electricity generation
Sectoral Scope : 1 - Energy Industries (renewable - /non renewable sources)

Further the project activity is not among the grouped projects, which allows the expansion of a project activity subsequent to project validation. Initial project activity instances identified in the project description will remain same throughout VCS verification cycle.

1.3 Project Proponent

Kishangarh Hi-tech Textile Park Ltd.

Roles and Responsibilities of the Project Proponents:

- Overall responsibility of implementation of the VCS project
- Daily monitoring and record keeping
- Collection of credit reports
- Generating the invoices as per credit reports

Contact Information:

| | |
|---------------|--------------------------------------|
| Organization: | Kishangarh Hi-tech Textile Park Ltd. |
|---------------|--------------------------------------|

| | |
|------------------|--|
| Street/P.O.Box: | Bhat Mohalla, Madanganj |
| Building: | Agrawal Sadan, |
| City: | Kishangarh |
| State/Region: | Rajasthan |
| Postfix/ZIP: | 305801 |
| Country: | INDIA |
| Telephone: | 01463 242877 |
| FAX: | 01463 242877 |
| E-Mail: | info@khtpl.com |
| URL: | www.khtpl.com/ |
| Represented by: | |
| Title: | Director |
| Salutation: | Mr. |
| Last Name: | Agarwal |
| Middle Name: | Kumar |
| First Name: | Vijay |
| Department: | NA |
| Mobile: | |
| Direct FAX: | 01463 242877 |
| Direct tel: | 01463 242877 |
| Personal E-Mail: | khtpl2006@gmail.com |

1.4 Other Entities Involved in the Project

No other entity is involved in the project.

1.5 Project Start Date

31/10/2010 (Date of commissioning of WTGs, inclusive of monitoring period)

1.6 Project Crediting Period

As per validated CDM-PDD:

Project Crediting Period Start Date: 30/10/2012 (Changed to 19/10/2012)

Project Crediting Period End Date: 29/10/2019 (Changed to 18/10/2017)

Total Number of Years of Crediting Period: 7

The project activity has been registered with UNFCCC for CDM on 19/10/2012. Therefore, project participant would like to withdraw the project activity from VCS w.e.f. 19/10/2012. Accordingly PP has revised crediting period as follows:

Project Crediting Period Start Date: 31/12/2010 (this date includes in monitoring period)

Project Crediting Period End Date: 18/10/2012 (this date includes in monitoring period)

Project Location

Village: Habur, District: Jaisalmer, State: Rajasthan, Country: India

| WTG Owner | UID | Latitude | | | | Longitude | | | |
|--|---------------|----------|-----|-----|-------|-----------|-----|-----|-------|
| Kishangarh Hi - tech Textile Park Ltd. | MK 5 | N | 27° | 10' | 46.9" | E | 70° | 38' | 12.0" |
| | MK 6 | N | 27° | 10' | 40.3" | E | 70° | 38' | 29.7" |
| | MK 7 | N | 27° | 10' | 33.7" | E | 70° | 38' | 47.4" |
| | MK8 | N | 27° | 10' | 18.2" | E | 70° | 38' | 00.9" |
| Total Capacity | 8.4 MW | | | | | | | | |

1.7 Title and Reference of Methodology

Title : Grid connected renewable electricity generation
 Reference : AMS I. D (Version 17, EB 61)
 Tool : Tool to calculate the Emission Factor for an Electricity System, Version 02.2.0 Annex 12, EB 61.

2 IMPLEMENTATION STATUS

2.1 Implementation Status of the Project Activity

The implementation of the project has been completed on 31/12/2010.

Wind power technology details – The technology employed, converts wind energy to electrical energy. In wind power generation, energy of wind is converted into mechanical energy and subsequently into electrical energy. The project activity is the installation of an environmentally safe and sound technology since there are no GHG emissions associated with the electricity generation.

The technical specifications of the WTGs have been provided as below. There is no transfer of technology involved in the project activity. The project activity consists of WTGs of Following Machines:-

| | |
|---------------------|-------------------------------|
| Capacity of machine | Installed Machine Manufacture |
| 2100 KW | Suzlon Energy Limited |

Technical details for 2100 KW Machine manufactured by Suzlon Energy Limited

| Sr. No. | PARTICULARS | DETAILS |
|---------|--------------------|---|
| 1 | Rated power | 2.1 MW |
| 2 | Cut-in wind speed | 4 m/s |
| 3 | Rated wind Speed | 14 m/s |
| 4 | Cut-out wind speed | 25 m/s |
| 5 | Hub height | 79 m (Foundation top equal to ground level) |
| 6 | Rotational Speed | 15 to 17.6 rpm |
| 7 | Swept area | 6082 m square |
| 8 | Type | Tubular Tower (4 sections) |
| 9 | Gear box Ratio | 1:98.8 |
| 10 | Rated power | 2100 kW |

2.2 Project Description Deviations

NA

2.3 Grouped Project

NA

3 DATA AND PARAMETERS

3.1 Data and Parameters Available at Validation

| | |
|--|---|
| Data Unit / Parameter: | EF _{CO₂,grid,y} |
| Data unit: | tCO ₂ / MWh |
| Description: | Combined margin CO ₂ emission factor for the project electricity system. |
| Source of data: | CEA CO ₂ Baseline Database (Version- 6.0, Date-March 2011) |
| Value applied: | 0.9487 |
| Justification of choice of data or description of measurement methods and procedures applied | <p>The CO₂ Baseline Database is the most authentic data available in India since it has been prepared & published by Central Electricity Authority, Government of India.</p> <p>The EF_{grid, CM, y} calculation is based on equation 13 of the 'Tool to calculate the emission factor for an electricity system' (Version- 02.2.1, EB- 63, Annex- 19) which is given below as:</p> $EF_{grid,CM,y} = 0.75 \times EF_{grid,OM,y} + 0.25 \times EF_{grid,BM,y}$ |
| Purpose of the data: | For the calculation of the Baseline Emission |
| Any comment: | The calculation is done as <i>ex ante</i> . |

| | |
|--|--|
| Data Unit / Parameter: | EF _{grid, OM, y} |
| Data unit: | tCO ₂ / MWh |
| Description: | Operating margin CO ₂ emission factor for the project electricity system. |
| Source of data: | CEA CO ₂ Baseline Database (Version- 6.0, Date-March 2011) |
| Value applied: | 0.9942 |
| Justification of choice of data or description of measurement methods and procedures applied | <p>The <i>CO₂ Baseline Database</i> is the most authentic data available in India since it has been prepared & published by Central Electricity Authority, Government of India.</p> <p>The EF_{grid, CM, y} calculation is based on the guidelines in '<i>Tool to calculate the emission factor for an electricity system</i>' (Version- 02.2.1, EB- 63, Annex- 19)</p> |

| | |
|----------------------|--|
| Purpose of the data: | For the calculation of the Baseline Emission |
| Any comment: | None |

| | |
|--|---|
| Data Unit / Parameter: | $EF_{grid, BM, y}$ |
| Data unit: | tCO ₂ / MWh |
| Description: | Build margin CO ₂ emission factor for the project electricity system. |
| Source of data: | CEA CO ₂ Baseline Database (Version- 6.0, Date- March 2011) |
| Value applied: | 0.8123 |
| Justification of choice of data or description of measurement methods and procedures applied | <p>The CO₂ Baseline Database is the most authentic data available in India since it has been prepared & published by Central Electricity Authority, Government of India.</p> <p>The $EF_{grid, BM, y}$ calculation is based on the guidelines in 'Tool to calculate the emission factor for an electricity system' (Version- 02.2.1, EB- 63, Annex- 19)</p> |
| Purpose of the data: | For the calculation of the Baseline Emission |
| Any comment: | None |

3.2 Data and Parameters Monitored

| | |
|------------------------|---|
| Data Unit / Parameter: | EG_{Bly} |
| Data unit: | MWh |
| Description: | Quantity of net electricity supplied to the grid as a result of the implementation of the project activity in year y |
| Source of data: | <p>Breakup of Net Export as per Monthly Generation Report and Joint Meter Reading authorized by R.R.V.P.N.L.</p> <p>The quantity of net electricity supplied to the grid (i.e. Net Export in kWh) by the project activity will be taken from the break-up sheet prepared by Suzlon India Limited on the basis of monthly Joint Meter Reading (JMR) certificate certified by Rajasthan Rajya Vidyut Prasaran Nigam Limited (RRVPNL).</p> |

| | |
|--|--|
| | The value for net electricity supplied to the grid will be cross verified from the monthly invoice raised by the project participant. |
| Description of measurement methods and procedures to be applied: | <p>Net electricity delivered to the Grid:</p> <p>The net electricity delivered to the Grid by the given WTG for the given month (net export kWh) is obtained by subtracting import from export as below:</p> $EG_{Bly} = EG_{Export,Project,y} - EG_{Import,Project,y}$ <p>The values of the net electricity delivered to the Grid are aggregated annually to get EG_{Bly}.</p> <p>The value of net electricity delivered to the Grid (EG_{Bly}) by the project activity per annum is converted to MWh before the calculation of emission reductions.</p> <p>The details on the calculation of net electricity exported to grid and the apportioning mechanism adopted are explained in detail under section 3.3.</p> |
| Frequency of monitoring/recording: | Monthly |
| Value monitored: | 26,851.17 |
| Monitoring equipment: | Calculated Value |
| QA/QC procedures to be applied: | <p>Annual Testing of all the meters will be undertaken and faulty meters will be duly replaced immediately. However the meters will be calibrated at-least once in 3 years.</p> <p>The Net Units generated will be cross checked against the invoice raised by the PP towards the Discom</p> |
| Calculation method: | $EG_{Bly} = EG_{Export,Project,y} - EG_{Import,Project,y}$ |
| Any comment: | Data will be archived in electronic form for two years after the end of monitoring period. |
| Data Unit / Parameter: | $EG_{Export,Project,y}$ |
| Data unit: | MWh |
| Description: | Quantity of electricity exported to the grid as a result of the implementation of the project activity |

| | |
|--|---|
| | in year y |
| Source of data: | <p>Monthly Generation Report and Joint Meter Reading authorized by R.R.V.P.N.L.</p> <p>The value for electricity exported to the grid will be cross verified from the monthly invoice raised by the project participant.</p> |
| Description of measurement methods and procedures to be applied: | The details on the calculation of electricity exported to grid and the apportioning mechanism adopted are explained in detail under section 3.3. |
| Frequency of monitoring/recording: | Monthly |
| Value monitored: | 26,983.828 |
| Monitoring equipment: | <p>Monitoring Equipment: Energy Meter</p> <p>Type: Two-way tri-vector energy meter</p> <p>Accuracy class:0.2s</p> <p>Calibration Frequency: Once in 3 years</p> |
| QA/QC procedures to be applied: | <p>Annual Testing of all the meters will be undertaken and faulty meters will be duly replaced immediately. However the meters will be calibrated at-least once in 3 years.</p> <p>The electricity exported will be cross checked against the invoice raised by the PP towards the Discom</p> |
| Calculation method: | Not Applicable |
| Any comment: | Data will be archived in electronic form for two years after the end of monitoring period. |

| | |
|--|--|
| Data Unit / Parameter: | EG _{Import,Project,y} |
| Data unit: | MWh |
| Description: | Quantity of electricity imported the grid as a result of the implementation of the project activity in year y |
| Source of data: | <p>Monthly Generation Report and Joint Meter Reading authorized by R.R.V.P.N.L.</p> <p>The value for electricity imported from the grid will be cross verified from the monthly invoice raised by the project participant.</p> |
| Description of measurement methods and procedures to be applied: | The details on the calculation of electricity imported from the grid and the apportioning |

| | |
|------------------------------------|--|
| | mechanism adopted are explained in detail under section 3.3. |
| Frequency of monitoring/recording: | Monthly |
| Value monitored: | 132.661 |
| Monitoring equipment: | Monitoring Equipment: Energy Meter Type: Two-way tri-vector energy meter Accuracy class:0.2s Calibration Frequency: Once in 3 years |
| QA/QC procedures to be applied: | Annual Testing of all the meters will be undertaken and faulty meters will be duly replaced immediately. However the meters will be calibrated at-least once in 3 years. The electricity exported will be cross checked against the invoice raised by the PP towards the Discom |
| Calculation method: | Not Applicable |
| Any comment: | Data will be archived in electronic form for two years after the end of monitoring period. |

| | |
|--|--|
| Data Unit / Parameter: | EG _{Controller,y} |
| Data unit: | MWh |
| Description: | Electricity generated by installed WTG of PP connected to particular feeder |
| Source of data: | Record of metering available at Central Monitoring Station for the project activity |
| Description of measurement methods and procedures to be applied: | Each WTG in Wind Farm is equipped with controller meter located inside the WTG. The controller meter provides daily generation report from each WTG. The controller meter located in each WTG is a microprocessor based intelligent controller which controls entire turbine operation and record energy generation with basic signal of CT and PT. The controller meter does not require calibration as it is self calibration type. Further, controller will stop the turbine if it detects any error in measurement therefore avoids the uncertainty in the generation data. |
| Frequency of monitoring/recording: | Continuous monitoring, hourly measurement and |

| | |
|---------------------------------|---|
| | Monthly recording from Energy Meter, Summarized Annually |
| Value monitored: | 28,361 |
| Monitoring equipment: | The WTG SCS/LCS Controller is micro-processor based. |
| QA/QC procedures to be applied: | The monitoring of all these wind turbines is performed from a common monitoring station as a part of central monitoring system. The system consists of a state-of-the-art monitoring station connected via optic cables to individual WTG. CMS is managed by well trained staff personnel. The personal are always present on site to monitor various parameters of power generation and deal with any problems related to generation, transmission or maintenance. |
| Calculation method: | Not applicable. |
| Any comment: | Data will be archived in electronic form for two years after the end of monitoring period. |

3.3 Description of the Monitoring Plan

The monitoring of the project activity is given as below:

- The electricity generated by the project activity WTG/s is evacuated to the pooling station at 33 kV/220 kV level. The project activity WTG/s along with other WTGs, are connected to the feeder-wise metering point/s, where each metering point consists of both main & check meters. These energy meters are having accuracy class of 0.2s.
- The joint meter reading is taken on monthly basis at these metering point/s at particular feeders by the representatives of PP & State Utility, which records parameters like export, import.
- All these metering points are further connected to the common delivery point at the 220 kV level.
- The common metering point at 220 kV GSS concurrently records total electricity (total export and total import) received from all connected metering points. The common metering point consists of both main & check meters. These energy meters are having accuracy class of 0.2s. The monthly JMR is taken by the representative of PP & State Utility.
- Billing of the energy will be done based on the energy break up available at the metering at 220 kV level.
- The monitoring & measurement of electricity will be done on continuous basis; while recording will be done on monthly basis as Joint Meter Reading by the representatives of State Utility & PP.
- The value of monthly export by the project activity along with import and net export will be recorded in the monthly Break up of net export units report.
- The values of monthly export & import by the project activity recorded in the monthly Break up of net export units report is calculated based on the apportioning method by the state utility.
- The meters shall be approved, tested & sealed by the State Utility. The meters are in the custody of State Utility.

- The calibration of the meters will be carried out at least once in three years (as per paragraph 17 (c) of General Guidelines to SSC CDM methodologies, Version 17).
- In the absence or delay in meter calibration - appropriate guideline will be applied to confirm the conservativeness of emission reductions.
- The net electricity supplied to the grid will be converted to MWh for calculation of emission reductions.
- Data will be archived in electronic form for two years after the end of crediting period or of the last issuance of CERs for this project activity, whichever occurs later.
- The PP is responsible for data collection & archiving.

Sample Apportioning Procedure:

The apportioning of the electricity is the responsibility of the State Utility. The sample apportioning procedure adopted for any given WTGs in project activity for any given month is given below:

Generation Ratio at metering point (33 kV/220 kV level GSS):

The generation ratio for project activity is the ratio of electricity generated by installed WTG of PP to the total generation by all the connected WTGs to the applicable metering point.

$$G_{R,y} = EG_{\text{Controller},y} / EG_{\text{All Controller},y} \quad (a)$$

Where,

- $G_{R,y}$: Generation Ratio at WTG for the project activity
- $EG_{\text{Controller},y}$: Electricity generated by installed WTGs of PP connected to particular feeder
- $EG_{\text{All Controller},y}$: Total generation by all the connected WTGs to the particular feeder. This parameter is not in the control of the PP.

Calculation of net electricity exported at applicable metering point:

The Main and Check meters at the particular feeder measure a number of parameters including export and import for all the connected WTGs.

The import, kWh by the WTG at the metering point is calculated in the following manner:

$$EG_{\text{Import,Project},y} = G_{R,y} \times EG_{\text{Import feeder},y} \quad (b)$$

Where,

- $EG_{\text{Import,Project},y}$: Import, kWh by the project WTG apportioned at metering point at particular feeder.
- $G_{R,y}$: Generation Ratio at WTG for the project activity
- $EG_{\text{Import feeder},y}$: Total Import by all the WTGs at the metering point at particular feeder. This parameter is not within the control of the PP.

The export, kWh by the WTG at the metering point is calculated in the following manner:

$$EG_{\text{Export,Project},y} = G_{R,y} \times EG_{\text{Export feeder},y} \quad (c)$$

Where,

- $EG_{\text{Export,Project},y}$: Export, kWh by the project WTG apportioned at metering point at particular feeder
- $G_{R,y}$: Generation Ratio at WTG for the project activity
- $EG_{\text{Export feeder},y}$: Total Export by all the WTGs at the metering point at particular feeder. This parameter is not within the control of the PP.

The net electricity exported by the WTGs at the 33 kV/220 kV level metering point is calculated by subtracting equation (b) from (c).

Thus, the net electricity exported at 33 kV/220 kV level metering point:

$$EG_{Bly} = EG_{Export,Project,y} - EG_{Import,Project,y} \quad (d)$$

The quantity of net electricity supplied to the grid (Net Export in kWh) i.e. EG_{Bly} by the project activity will be taken from the break-up sheet prepared by Suzlon India Limited on the basis of monthly Joint Meter Reading (JMR) certificate certified by Rajasthan Rajya Vidyut Prasaran Nigam Limited (RRVPL) and shall be used for emission reduction calculations.

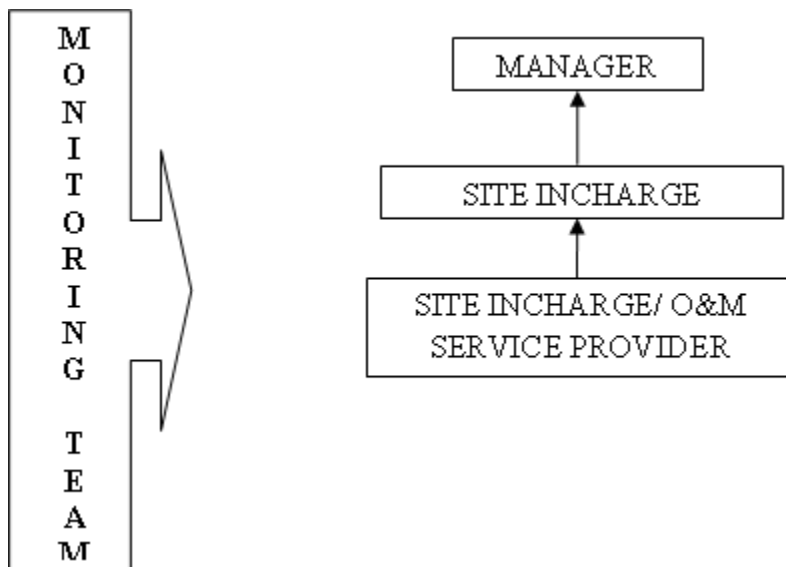
Operation & Maintenance of the Project:

Suzlon Infrastructure Services Ltd. is providing O&M services to the project promoter. Following services are provided by Suzlon Infrastructure Services Ltd.:

- **Routine Maintenance Services:** Routine maintenance labor work involves making available suitable manpower for operation and maintenance of the equipment and covers periodic preventive maintenance, cleaning and upkeep of the equipment
- **Security Services:** This service includes watch and ward and security of the wind turbines and the equipment.
- **Management Services:**
 - ✓ Data logging for power generation, grid availability, machine availability.
 - ✓ Preparation and submission of monthly performance report.
 - ✓ Taking monthly meter reading jointly with utility of power generated at promoter’s wind turbines and supplied to grid from the meter/s maintained by utility for the purpose and co-ordinate to obtain necessary power credit report/ certificate.
- **Technical Services:**
 - ✓ Visual inspection of the WTGs and all parts thereof.
 - ✓ Technical assistance including checking of various technical, safety and operational parameters of the equipment, trouble shooting and relevant technical services

Operational & Management Structure:

The O & M Contractor for the project activity is an ISO 9001 certified company. The operational and management structure:



Organizational Structure for monitoring

| Designation | Responsibilities |
|-------------------------------------|--|
| MANAGER | Holds complete control over monitoring aspects pertaining to the project |
| SITE INCHARGE | <ul style="list-style-type: none"> • Recording • Verification • Storage of Data |
| SITE INCHARGE/ O&M SERVICE PROVIDER | <ul style="list-style-type: none"> • Operation and Maintenance • Storage of data • Data Recording |

4 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

4.1 Baseline Emissions

| Period | Baseline emission factor (tCO ₂ /MWh) | Net Electricity generation (MWh) | Baseline emissions (ER _y) |
|--------------------------|--|----------------------------------|---------------------------------------|
| 31/12/2010 to 31/12/2010 | 0.9487 | 0.597 | 0. |
| 01/01/2011 to 31/12/2011 | 0.9487 | 14,083.510 | 13,361 |
| 01/01/2012 to 18/10/2012 | 0.9487 | 12,767,060 | 12,112 |

4.2 Project Emissions

| Period | Project Emissions (PE _y) |
|--------------------------|--------------------------------------|
| 01/01/2011 to 31/12/2011 | 0 |
| 01/01/2012 to 30/09/2012 | 0 |

4.3 Leakage

| Period | Project Leakage (LE _y) |
|--------------------------|------------------------------------|
| 01/01/2011 to 31/12/2011 | 0 |
| 01/01/2012 to 30/09/2012 | 0 |

4.4 Summary of GHG Emission Reductions and Removals

| Period | Emission factor | Estimation of baseline emissions (tCO ₂ e) | Estimation of project activity emissions (tCO ₂ e) | Estimation of leakage (tCO ₂ e) | Estimation of overall emission reductions (tCO ₂ e) |
|--------------------------|-----------------|---|---|--|--|
| 31/12/2010 to 31/12/2010 | 0.9487 | 0 | 0 | 0 | 0 |
| 01/01/2011 to 31/12/2011 | 0.9487 | 13361 | 0 | 0 | 13361 |
| 01/01/2012 to 30/09/2012 | 0.9487 | 12112 | 0 | 0 | 12112 |
| Total | | 25473.00 | 0 | 0 | 25473.00 |

5 ADDITIONAL INFORMATION

Vintage wise ER Calculations:

2010

| Month | EG _{Export,Project,y} | EG _{Import,Project,y} | EG _{Bly} | EF _{CO2,grid,y} | PE _y | LE _y | ER _y |
|--------------|--------------------------------|--------------------------------|-------------------|--------------------------|--------------------|--------------------|--------------------|
| | kWh | kWh | kWh | | tCO ₂ e | tCO ₂ e | tCO ₂ e |
| Dec-10 | 597 | 0 | 597 | 0.9487 | 0 | 0 | 0 |
| Total | 597 | 0 | 597 | | 0 | 0 | 0 |

2011

| Month | EG _{Export,Project,y} | EG _{Import,Project,y} | EG _{Bly} | EF _{CO2,grid,y} | PE _y | LE _y | ER _y |
|--------------|--------------------------------|--------------------------------|-------------------|--------------------------|--------------------|--------------------|--------------------|
| | kWh | kWh | kWh | | tCO ₂ e | tCO ₂ e | tCO ₂ e |
| Jan-11 | 455,121 | 5,711 | 449,410 | 0.9487 | 0 | 0 | 13,361 |
| Feb-11 | 689,998 | 7,270 | 682,728 | | | | |
| Mar-11 | 946,230 | 8,750 | 937,480 | | | | |
| Apr-11 | 1,196,592 | 5,895 | 1,190,697 | | | | |
| May-11 | 2,258,009 | 1,401 | 2,256,608 | | | | |
| Jun-11 | 2,979,173 | 1,978 | 2,977,195 | | | | |
| Jul-11 | 1,844,732 | 3,476 | 1,841,256 | | | | |
| Aug-11 | 1,324,939 | 4,574 | 1,320,365 | | | | |
| Sep-11 | 983,930 | 1,589 | 982,341 | | | | |
| Oct-11 | 758,604 | 11,961 | 746,643 | | | | |
| Nov-11 | 244,570 | 15,064 | 229,506 | | | | |
| Dec-11 | 479,475 | 10,194 | 469,281 | | | | |
| Total | 14,161,373 | 77,863 | 14,083,510 | | 0 | 0 | 13,361 |

2012

| Month | EG _{Export,Project,y} | EG _{Import,Project,y} | EG _{Bly} | EF _{CO2,grid,y} | PE _y | LE _y | ER _y |
|--------|--------------------------------|--------------------------------|-------------------|--------------------------|--------------------|--------------------|--------------------|
| | kWh | kWh | kWh | | tCO ₂ e | tCO ₂ e | tCO ₂ e |
| Jan-12 | 574,241 | 8,597 | 565,644 | 0.9487 | 0 | 0 | 12,112 |
| Feb-12 | 615,730 | 7,219 | 608,511 | | | | |
| Mar-12 | 961,576 | 8,837 | 952,739 | | | | |
| Apr-12 | 925,017 | 7,267 | 917,750 | | | | |
| May-12 | 1,470,986 | 3,540 | 1,467,446 | | | | |
| Jun-12 | 3,180,411 | 1,166 | 3,179,245 | | | | |
| Jul-12 | 2,885,446 | 2,251 | 2,883,195 | | | | |
| Aug-12 | 1,435,074 | 6,388 | 1,428,686 | | | | |

| | | | | | | | |
|--------------|----------------|--------|------------|--|---|---|--------|
| Sep-12 | 773,377 | 9,533 | 763,844 | | | | |
| Oct-12 | 0 ¹ | 0 | 0 | | | | |
| Total | 12,821,858 | 54,798 | 12,767,060 | | 0 | 0 | 12,112 |

Energy Meters' Details:

| Meter | Feeder | Sr. No. of Meter | Make & Model of Meter | Accuracy Class | Date of Calibration |
|--------|------------|------------------|-----------------------|----------------|---------------------|
| Main | 220 kV GSS | 09166172 | L&T (RS 485) | 0.2s | 13/03/2012 |
| Backup | Amarsagar | 09166170 | L&T (RS 485) | 0.2s | 13/03/2012 |

As per the registered PDD the calibration frequency is once in a three year. As per the commissioning of the Wind mills the calibration due date is 30/12/2013. The calibration is done well before the due date and the calibration certificates are submitted to the DOE. PP thus confirms that the submitted generation value to the DOE is thus correct.

¹ *18 days generation is waived off and not considered due to apportioning.