



MONITORING REPORT
Version Number 1 and date 27/07/2011

Title: 8.75 MW Wind Power Project in Gujarat
Reference Number: 0776
Monitoring period no: 03
First and last days included (26/02/2010 - 30/06/2011)

SECTION A. General description of the project activity

A.1. Brief description of the project activity: >>

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This is a wind energy project of capacity 8.75 MW comprising 7 Wind Turbine Generators (WTG's) of 1.25MW each. The WTG's are located at sites Bhogat, Lamba and Mandvi. The project activity is executed in a phased manner during March 2003 to March 2005.

The project conceptualizes wheeling of electricity, produced at wind energy farms, using state grid to the investing company for its internal use. Rolex Rings Private Limited, referred to as RRPL hereafter, has business interests in the area of auto component manufacturing. RRPL generates electrical power using wind energy at their wind farms in Gujarat. Power is wheeled to the forging and component manufacturing plant at Rajkot, Gujarat. Gujarat State Electricity Board grid (part of Western Regional (WR) grid in India) network is used for transmission of power to RRPL plant.

The commissioning dates for WTGs are tabulated below. These are also the start date of operation of WTGs respectively:

| Capacity | Unique ID | Location | Commissioning Date |
|----------|-----------|----------|--------------------|
| 1.25MW | B1 | Bhogat | 27/03/2003 |
| 1.25MW | B2 | Bhogat | 29/07/2003 |
| 1.25MW | B4 | Bhogat | 29/07/2003 |
| 1.25MW | W06 | Lamba | 01/06/2005 |
| 1.25MW | V09 | Vanku | 29/04/2006 |
| 1.25MW | V10 | Vanku | 18/04/2006 |
| 1.25MW | V18 | Vanku | 29/04/2006 |

Total emission reductions achieved in the monitoring period are 12, 140 tCO₂e.

A.2. Project Participants

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| Name of Party involved (host) indicates a host Party) | Private and/or public entity(ies) project participants (as applicable) |
|--|---|
| Government of India (Host Party) | Rolex Rings Private Limited (RRPL) |
| Government of Japan | Mitsubishi Corporation |

A.3. Location of the project activity:

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The project sites are located in the State of Gujarat.



| Capacity | Unique ID | Location | Latitude/Longitude |
|----------|-----------|----------|-------------------------------------|
| 1.25MW | B1 | Bhogat | 21° 57' 26.28"N, 69° 13' 19.5594"E |
| 1.25MW | B2 | Bhogat | 21° 57' 41.76"N , 69° 13' 30.72"E |
| 1.25MW | B4 | Bhogat | 21° 57' 48.5994"N, 69° 13' 23.52"E |
| 1.25MW | W06 | Lamba | 21° 51' 53.2794"N, 69° 19' 27.12"E |
| 1.25MW | V09 | Vanku | 23° 6' 51.8394"N, 68° 49' 59.8794"E |
| 1.25MW | V10 | Vanku | 23° 6' 38.88"N, 68° 49' 59.8794"E |
| 1.25MW | V18 | Vanku | 23° 6' 40.6794"N, 68° 50' 27.9594"E |



A.4. Technical description of the project

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The project is a Renewable Energy project with maximum output capacity of 8.75 MW. WTGs installed in the project activity are of 1.25 MW capacities. Details are given in table below –

| Wind Turbine Generator Type | 1.25 MW |
|-----------------------------|--------------------------|
| Make | Suzlon |
| Rotor | |
| Rotor Diameter | 64 m |
| Number of rotor blades | 03 |
| Orientation | Upwind / Horizontal axis |
| Hub Height | 65 m |
| Swept Area | 3217 square meter |
| Rotational Speed | 13.8 / 20.7 rpm |
| Rotational Direction | Clockwise |
| Rotor Blade Material | GRP |
| Regulation | Pitch –regulated |



| | |
|-------------------------|---|
| Operational Data | |
| Cut in wind speed | 3 m/s |
| Rated wind speed | 13 m/s |
| Cut off wind speed | 25 m/s |
| Gear Box | |
| Type | Integrated 3 Stage 1 planetary & 2 helical |
| Manufacturer | Flender - Winergy |
| Nominal load | 1390 kW |
| Type of cooling | Oil cooling system, Forced lubrication |
| Gear ratio | 1: 74.917 |
| Generator | |
| Type | Asynchronous 4/6 pole |
| Rotational Speed | 1006/1506 RPM |
| Rated output | 250/1250 kW |
| Rated Voltage | 690 V |
| Frequency | 50 Hz |
| Insulation | Class “H” |
| Enclosure class | IP 56 |
| Cooling system | Air cooled |
| Operating Brakes | |
| Aerodynamic brake | 3 Independent systems with blade pitching |
| Mechanical brake | Spring powered disc brakes, hydraulically released, fail safe |
| Yaw Drive | |
| Method of operation | 4 active electrical yaw motors |
| Bearing type | Polyamide slide bearing |

A.5. Title, reference and version of the baseline and monitoring methodology applied to the project activity:

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Methodology: AMS I.D. ‘Grid connected renewable electricity generation’, Version 09, 28 July 2006/Scope 1

Reference: Appendix B of the simplified modalities & procedures for small-scale CDM-project Activities

A.6. Registration date of the project activity:

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11/02/2007

A.7. Crediting period of the project activity and related information (start date and choice of crediting period):

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Start date of crediting period: 11/02/2007

Choice of crediting period: Fixed crediting period for 10 years

There is no change of credit period start date post registration of the project activity.

A.8. Name of responsible person(s)/entity(ies):

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SECTION B. Implementation of the project activity**B.1. Implementation status of the project activity**

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All WTGs part of the project activity have been commissioned and are operating. The project activity has issued CERs earlier. Please find below the commissioning details of the WTGs:

| Capacity | Unique ID | Location | Commissioning Date |
|----------|-----------|----------|--------------------|
| 1.25MW | B1 | Bhogat | 27/03/2003 |
| 1.25MW | B2 | Bhogat | 29/07/2003 |
| 1.25MW | B4 | Bhogat | 29/07/2003 |
| 1.25MW | W06 | Lamba | 01/06/2005 |
| 1.25MW | V09 | Vanku | 29/04/2006 |
| 1.25MW | V10 | Vanku | 18/04/2006 |
| 1.25MW | V18 | Vanku | 29/04/2006 |

There are no changes that have happened in project activity which may impact the applicability of the methodology.

B.2. Revision of the monitoring plan

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The monitoring plan has not been revised for the project activity.

B.3. Request for deviation applied to this monitoring period

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No request for deviation applied to this monitoring period

B.4. Notification or request of approval of changes

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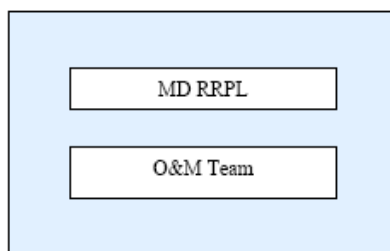
No notification or request of approval of changes applied to this monitoring period.

SECTION C. Description of the monitoring system

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As per the registered PDD, following monitoring systems has been implemented in the project activity.

Organizational structure, roles and responsibilities



The WTGs are owned by RRPL and the machines are under contract for the turn-key operation and maintenance by the manufacturer itself. The responsibility of WTG maintenance (usual and preventive as well), daily WTG wise power generation data collection & reporting, monthly joint meter reading of common meter with SEB personnel are with manufacturer itself. WTG manufacturer is an ISO certified company and has standard procedures for O&M, training, emergency situations, meter calibration etc.

Data Monitoring:

The methodology requires monitoring of the following:

- Actual Electricity generation from the project activity

Completeness-

For Electricity generation data: There is tower wise meter which is used to monitor tower wise power generation data. This meter is maintained by O&M team contracted by Rolex Rings Private Limited (RRPL). A daily generation report is prepared which is sent to RRPL. Overall plant electricity generation is monitored using GEB meter. GEB takes reading of power generation every month; this data is used for billing purposes. This meter is maintained by GEB.

A daily log is maintained by O&M team about issues related to power generation (tower shutdown, grid failure etc). A monthly MIS is prepared based on this data and is reviewed by RRPL.

Calibration of Meters-

Tower wise meter is of high accuracy level, and is checked for accuracy on a regular basis. GEB meter is maintained by GEB personnel and calibration is done periodically. If there are problems found with performance of the meter, necessary actions are taken by GEB. The details of calibration of meters are provided in Annex-1

Frequency-

Electricity generation data is collected daily by O&M team. GEB meter reading is done every month by GEB.

Emergency procedures for the monitoring system

If there are problems found with performance of the meter, necessary actions are taken by GEB.

For line diagrams showing relevant monitoring points, please refer Annex 2.

SECTION D. Data and parameters

D.1. Data and parameters determined at registration and not monitored during the monitoring period, including default values and factors

| | |
|----------------------|----|
| Data / Parameter: | NA |
| Data unit: | |
| Description: | |
| Source of data used: | |



| | |
|--|--|
| Value(s) : | |
| Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations) | |
| Additional comment: | |

| D.2. Data and parameters monitored¹ | |
|---|--|
| Data / Parameter: | $GEN_{i,y}$ |
| Data unit: | kWh |
| Description: | Electricity generated in Wind Energy Generator (i) i.e. delivered to grid |
| Measured /Calculated /Default: | Measured |
| Source of data: | Energy meter |
| Value(s) of monitored parameter: | 14745393 |
| Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations) | Baseline emission |
| Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity) | Please refer Annex 1 |
| Measuring/ Reading/ Recording frequency: | Measuring frequency: Continuous Recording frequency: Continuous Reading frequency: Monthly |
| Calculation method (if applicable): | Monthly GEDA share of electricity certificate is used for this variable. The reading from common meter as well individual meters is used by GEDA personnel to calculate share of each WTG on Pro-rata basis. |
| QA/QC procedures applied: | <p>The data is very accurately measured. Tower wise electricity generation is measured using WTG meter. Electricity exported to grid is measured using SEB meter installed on uploading station, this reading is taken monthly by joint team of O&M team at wind farm and SEB personnel. The meter at the uploading station is a two way meter and is in custody of State electricity board.</p> <p>GEDA issues monthly certificate for actual power exported by each WTG on the wind farm. This reading is derived using above meters. Reading recorded in this certificate is used for actual estimations.</p> |

| | |
|--------------------------|--|
| Data / Parameter: | EF_y |
| Data unit: | t CO ₂ /MWh |
| Description: | CO ₂ emission factor of the grid. |
| Measured /Calculated | Calculated |

¹ The monitoring parameters other than the emission factor of the grid were not included in the MR as these parameters are being used for the emission factor calculation and available at the CEA (central electricity authority) web site. The emission factor values are being referred from the CEA database itself.



| | |
|---|--|
| /Default: | |
| Source of data: | Central Electricity Authority (CEA) data |
| Value(s) of monitored parameter: | 0.82 |
| Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations) | Baseline emission |
| Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity) | Not applicable |
| Measuring/ Reading/ Recording frequency: | Frequency: Yearly |
| Calculation method (if applicable): | Calculated as emission factor pertaining to current generation mix, i.e. the year in which generation from project activity takes place. |
| QA/QC procedures applied: | Not required |

SECTION E. Emission reductions calculation

E.1. Baseline emissions calculation

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Baseline emissions are calculated as:

$$BE_y = \sum GEN_i \times EF_y / 1000$$

Where:

BE_y - Baseline emissions in year y, tCO₂e

GEN_i - Net power wheeled to the grid from wind mill i, kWh

EF_y - Grid emission factor calculated ex-post for year y, kg CO₂e/MWh

Sample calculation for the month of April 2010

$$\begin{aligned} BE_y &= 438512 \text{ (kWh)} \times 0.82 \text{ (tCO}_2\text{/MWh)} / 1000 \\ &= 361 \text{ (tCO}_2\text{e)} \end{aligned}$$

Sample calculation for the month of March 2011

$$\begin{aligned} BE_y &= 600855 \text{ (kWh)} \times 0.82 \text{ (tCO}_2\text{/MWh)} / 1000 \\ &= 495 \text{ (tCO}_2\text{e)} \end{aligned}$$

The cumulative baseline emissions for the entire monitored period are:

$$BE_y = 12,140 \text{ (tCO}_2\text{e)}$$



The detailed worksheet of baseline emissions is as below:

| Month | GEN _i (kWh) | | | | | | | | | | | | ΣGEN _i (kWh) | Estimations of baseline emissions (tCO ₂ e) |
|--------|------------------------------|---------------------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|-----------------------|--------------------------|---------------------------------|--------------------------------------|---------------------|--------------------------|----------------------------|---|
| | Bhogat | | | | Vanku | | | | Lamba | | | | | |
| | Bhogat (As per GEDA),a | Bhogat (As per Apportio n),b | Bhogat (Min a,b) | Permi ssible error | Vanku (As per GEDA), c | Vanku (As per Apportio n),d | Vanku (Min c,d) | Permi ssible error | Lamba (As per GEDA), e | Lamba (As per Apportio n),f | Lamba (Min e, f) | Permiss ible error | | |
| Mar-10 | 364227 | 364354 | 364227 | 0 | 280694 | 280694 | 280694 | 0 | 140936 | 140936 | 140936 | 0 | 785857 | 647 |
| Apr-10 | 129289 | 128981 | 128981 | 0 | 249955 | 229955 | 229955 | 0 | 82043 | 79576 | 79576 | 0 | 438512 | 361 |
| May-10 | 575279 | 575303 | 575279 | 0 | 637441 | 637441 | 637441 | 0 | 269874 | 269647 | 269647 | 0 | 1482367 | 1221 |
| Jun-10 | 516676 | 516752 | 516676 | 0 | 490260 | 490260 | 490260 | 0 | 214745 | 213361 | 213361 | 0 | 1220297 | 1005 |
| Jul-10 | 452342 | 452499 | 452342 | 0 | 475758 | 475758 | 475758 | 0 | 276387 | 276387 | 276387 | 0 | 1204487 | 992 |
| Aug-10 | 460799 | 460931 | 460799 | 0 | 239775 | 239775 | 239775 | 0 | 210503 | 210503 | 210503 | 0 | 911077 | 750 |
| Sep-10 | 217533 | 218181 | 217533 | 0 | 117518 | 117518 | 117518 | 0 | 106778 | 106778 | 106778 | 0 | 441829 | 364 |
| Oct-10 | 218023 | 218220 | 218023 | 0 | 120370 | 120527 | 120370 | 0 | 78120 | 78194 | 78120 | 0 | 416513 | 343 |
| Nov-10 | 333804 | 326380 | 326380 | 0 | 206919 | 206919 | 206919 | 0 | 137363 | 137363 | 137363 | 0 | 670662 | 552 |
| Dec-10 | 319549 | 311593 | 311593 | 0 | 212157 | 212157 | 212157 | 0 | 142454 | 142454 | 142454 | 0 | 666204 | 549 |
| Jan-11 | 468275 | 458195 | 458195 | 0 | 227479 | 227479 | 227479 | 0 | 199298 | 199298 | 199298 | 0 | 884972 | 729 |
| Feb-11 | 284993 | 278840 | 278840 | 0 | 176156 | 176156 | 176156 | 0 | 117712 | 117712 | 117712 | 0 | 572708 | 472 |
| Mar-11 | 286643 | 279626 | 279626 | 0 | 210854 | 210854 | 210854 | 0 | 110375 | 110375 | 110375 | 0 | 600855 | 495 |
| Apr-11 | 390962 | 383122 | 383122 | 0 | 242143 | 242143 | 242143 | 0 | 154553 | 154552 | 154552 | 0 | 779817 | 642 |
| May-11 | 650621 | 634916 | 634916 | 0 | 692512 | 692512 | 692512 | 0 | 252714 | 252848 | 252714 | 0 | 1580142 | 1301 |



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| | | | | | | | | | | | | | | |
|--------|---------|---------|---------|---|---------|---------|---------|---|---------|---------|---------|---|----------|--------|
| Jun-11 | 867603 | 883909 | 867603 | 0 | 877367 | 877367 | 877367 | 0 | 344125 | 344124 | 344124 | 0 | 2089094 | 1720 |
| Total | 6536618 | 6491802 | 6474135 | 0 | 5457358 | 5437515 | 5437358 | 0 | 2837980 | 2834108 | 2833900 | 0 | 14745393 | 12,140 |



*As per para 8 of “Guidelines for Assessing Compliance With The Calibration Frequency Requirements (Version 01), *“In cases where neither the monitoring methodology, nor the monitoring plan specify any requirements for calibration frequency for measuring equipments, the DOE shall ensure that the equipments are calibrated either in accordance with the specifications of the local/national standards, or as per the manufacturer specification. If local/national standards or the manufacturer specification is not available, international standards may be used”.*

For substation meters:

The PP has used the calibration approach, for substation meters, as per the available local standards (GETCO - Gujarat Energy Transmission Corporation Ltd.). As per this GETCO guideline, the substation meters would be tested once in three years.

For meters other than substation:

In the project case calibration frequency of meter is not specified either in monitoring methodology or in monitoring plan of registered CDM-SCC-PDD. Calibration frequency for the project case is considered as per national standard, CEA Regulation on “*Installation and operation of meters*” Para 18 (3). As per this regulation energy meters requires to be calibrated once in five years. However, taking the conservative approach, PP has considered the guidance on calibration of meters for small scale projects which prescribes calibration of meters at least once in 3 years, *As per para 12 (c) of EB 35 Annex 35 “Measuring equipment should be certified to national or IEC standards and calibrated according to the national standards and reference points or IEC standards and recalibrated at appropriate intervals according to manufacturer specifications, but at least once in 3 years”.*

| |
|---|
| E.2. Project emissions calculation |
|---|

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Since, the proposed project activity is a renewable energy project which generates electricity using wind power; no anthropogenic emissions by sources of greenhouse gases within the project boundary are identified. Hence, project emissions are zero.

$$PE_y = 0$$

| |
|---------------------------------|
| E.3. Leakage calculation |
|---------------------------------|

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No anthropogenic greenhouse gases by sources outside the project boundary that are significant, measurable and attributable to the project activity are identified. Hence, no leakage is considered from the project activity.

$$L_y = 0$$

| |
|---|
| E.4. Emission reductions calculation / table |
|---|

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In accordance with the applied methodology-AMS I.D., Version 09, the emission reductions can be calculated as follows:

$$ER_y = BE_y - PE_y - L_y$$

Where,

ER_y: Emission reductions in year y (tCO₂e.)

BE_y: Baseline emissions in year y (tCO₂e.)

PE_y: Project emissions in year y (tCO₂e.)

L_y: Emissions due to leakage in year y (tCO₂e.)



Total baseline emissions: 12, 140 tCO₂e
 Total project emissions: 0
 Total leakage: 0 tCO₂e
 Total emission reductions: 12, 140 tCO₂e

The detailed worksheet of emission reductions is as below:

| Month | Estimation of project activity emissions (tCO ₂ e) | Estimations of baseline emissions (tCO ₂ e) | Estimation of leakage (tCO ₂ e) | Estimation of overall emission reductions (tCO ₂ e) |
|--------------|---|--|--|--|
| Mar-10 | 0 | 647 | 0 | 647 |
| Apr-10 | 0 | 361 | 0 | 361 |
| May-10 | 0 | 1221 | 0 | 1221 |
| Jun-10 | 0 | 1005 | 0 | 1005 |
| Jul-10 | 0 | 992 | 0 | 992 |
| Aug-10 | 0 | 750 | 0 | 750 |
| Sep-10 | 0 | 364 | 0 | 364 |
| Oct-10 | 0 | 343 | 0 | 343 |
| Nov-10 | 0 | 552 | 0 | 552 |
| Dec-10 | 0 | 549 | 0 | 549 |
| Jan-11 | 0 | 729 | 0 | 729 |
| Feb-11 | 0 | 472 | 0 | 472 |
| Mar-11 | 0 | 495 | 0 | 495 |
| Apr-11 | 0 | 642 | 0 | 642 |
| May-11 | 0 | 1301 | 0 | 1301 |
| Jun-11 | 0 | 1720 | 0 | 1720 |
| Total | 0 | 12, 140 | 0 | 12, 140 |

E.5. Comparison of actual emission reductions with estimates in the CDM-PDD

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| Item | Values applied in ex-ante calculation of the registered CDM-PDD | Actual values reached during the monitoring period |
|--|---|--|
| Emission reductions (tCO ₂ e) | 20,597 | 12,140 |

There are 489 days in this monitoring period (26/02/2010 – 30/06/2011)
 Emission reductions estimated in the registered PDD: 20,597 tCO₂e (=15342/365*490 tCO₂e)
 The actual emission reductions achieved during the monitoring period: 12, 140 tCO₂e

E.6. Remarks on difference from estimated value in the PDD

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| Estimated Emission Reduction | Actual Emission Reduction | Variation |
|------------------------------|---------------------------|-----------|
| 20,597* | 12,140 | -41.06 % |

* Estimated emission reduction is 490 days; this is as per registered PDD.



Variation in actual emission reduction is due to the lower capacity utilization factor (CUF) achieved in the present monitoring period.

**ANNEX-1**

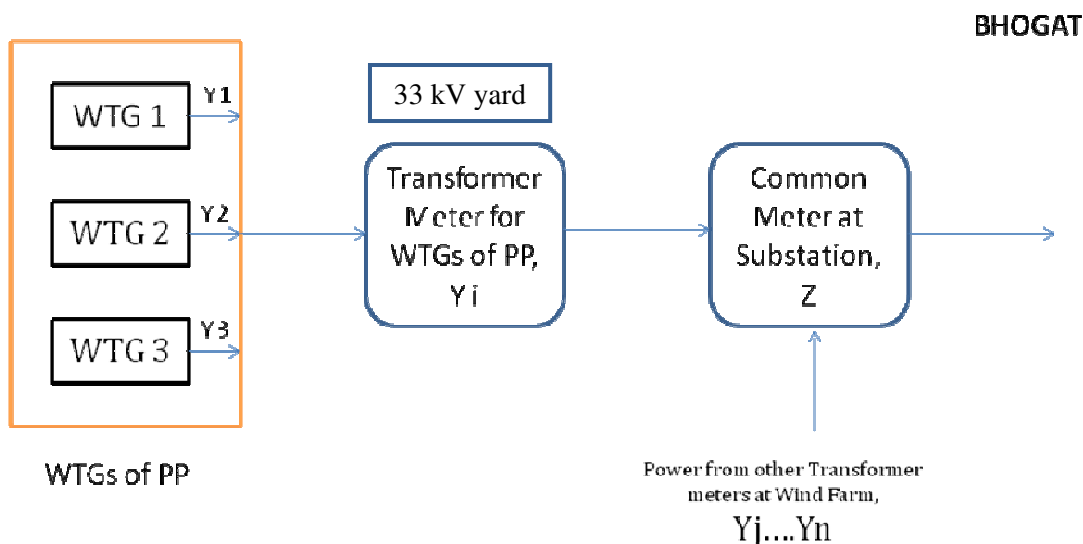
Calibration details² of the energy meters are given below:

| SN | Meter location | Site | Date of testing | Meter Serial No | Make | Accuracy Class/ Least Count |
|----|------------------------|--------|-----------------|-----------------|--------|--------------------------------|
| 1 | B1 - B2 - B4 | Bhogat | 06-04-2010 | GJB 01396 | Secure | 0.2S |
| 2 | B86 | Lamba | 09/04/2010 | GJB 00133 | Secure | 0.5S |
| 3 | V9 | Vanku | 08-07-2010 | GJU 00855 | Secure | 0.5S |
| 4 | V10 | Vanku | 15-07-2010 | GJU 03427 | Secure | 0.5S |
| 5 | V18 | Vanku | 12-07-2010 | GJB 00123 | Secure | 0.5S |
| 6 | Substation (Lamba) | SS 1 | 26-05-2010 | GJB 00487 | Secure | 0.5S |
| | | SS 2 | 26-05-2010 | MSB 02438 | Secure | 0.5S |
| 7 | Substation (Vanku) | TR 1 | 31-01-2011 | GJB 00591 | Secure | 0.5S |
| | | TR 2 | 31-01-2011 | GJB 00592 | Secure | 0.5S |
| 8 | Substation (Bhogat) | SS 1 | 29-05-2010 | GJB 00270 | Secure | 0.5S |
| | | SS 2 | 24-02-2009 | GJB 00595 | Secure | 0.5S |

² There have been a few changes in meters at site by the authorities beyond PP's control. Details of all meters, old and new, are provided separately as part of Emission Reduction worksheet to DOE.

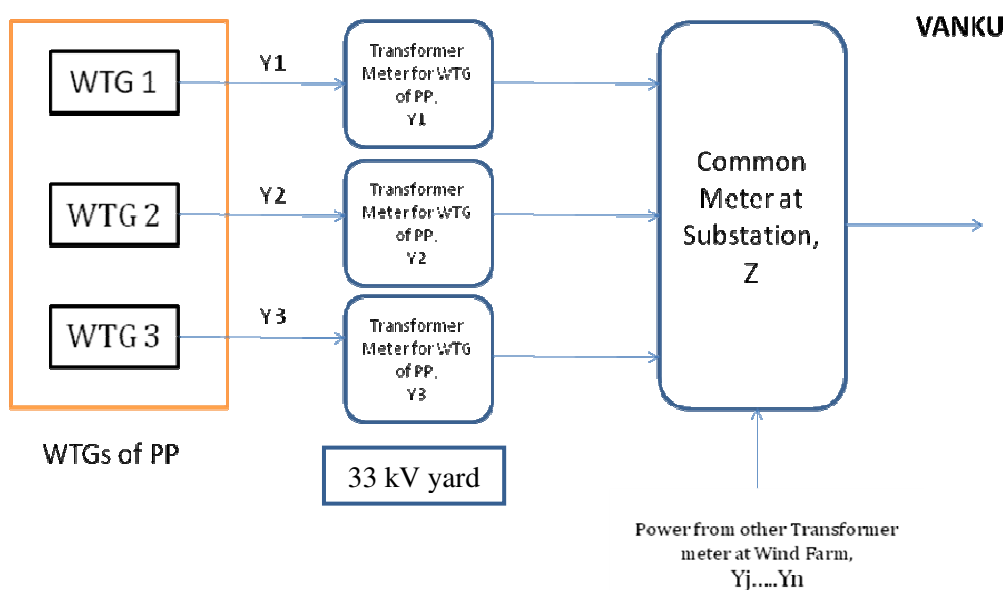
ANNEX -2

Line diagrams showing all relevant monitoring points



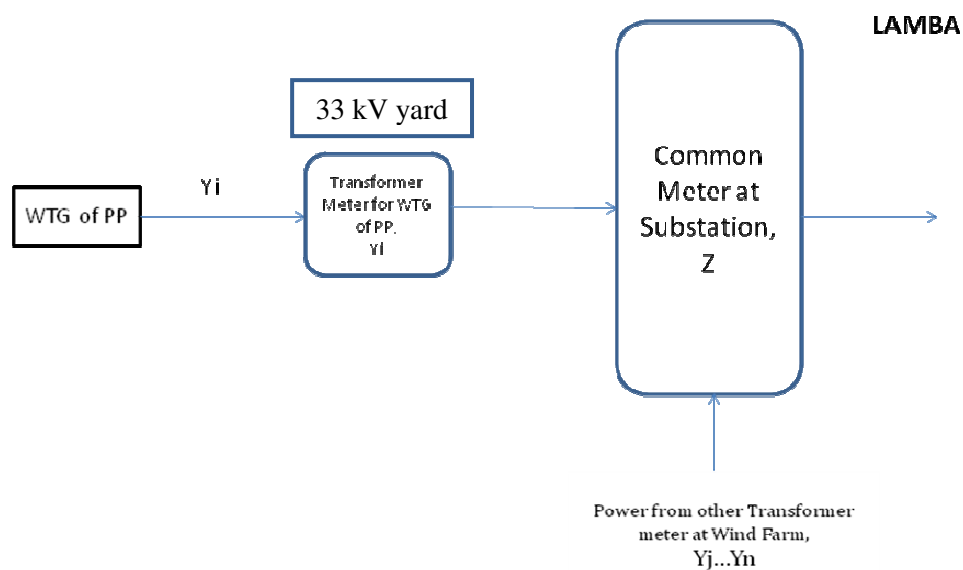
Net Electricity apportioned to WTGs of PP (WTGs 1, 2 & 3) – $Y_i \times Z / (Y_i + Y_j + \dots + Y_n)$

Both Transformer meter and Common meter are calibrated at regular intervals.



Net Electricity apportioned to WTG of PP (WTG 1) – $Y_1 \times Z / (Y_1 + Y_2 + Y_3 + \dots + Y_n)$

Transformer meters and Common meter are calibrated at regular intervals.



Net Electricity apportioned to WTG of PP (WTG 1) = $Y_i \times Z / (Y_i + \dots + Y_n)$

Transformer meters and Common meter are calibrated at regular intervals.

**ANNEX-3****Apportioning approach for Bhogat, Vanku and Lamba**
$$GEN_i = \text{Net electricity export to the grid (measured at Substation Meter)} \times \left[\frac{\text{sum of electricity generation recorded at controller meters of WTGs of PP}}{\text{sum of electricity generation recorded at controller meters of all WTGs located at the wind farm}} \right]$$
Sample calculation at Bhogat for the month of June-10

$$\begin{aligned} &= 2736944 * (524160 / 2776179) \\ &= 516752 \text{ kWh} \end{aligned}$$

As per JMR of month of June-10 the PP share is 516676 kWh

Now the lower of the two, i.e. 516676 kWh is considered for the CER calculation, which is conservative.

Sample calculation at Vanku for the month of Oct-10

$$\begin{aligned} &= 1798693 * (128034 / 1910721) \\ &= 120527 \text{ kWh} \end{aligned}$$

As per JMR of month of Oct-10 the PP share is 120370 kWh

Now the lower of the two, i.e. 120370 kWh is considered for the CER calculation, which is conservative.

Sample calculation at Lamba for the month of Oct-10

$$\begin{aligned} &= 1670605 * (80118 / 1711719) \\ &= 78194 \text{ kWh} \end{aligned}$$

As per JMR of month of Oct-10 the PP share is 78120 kWh

Now the lower of the two, i.e. 78120 kWh is considered for the CER calculation, which is conservative.