



Monitoring report form
(Version 05.1)

MONITORING REPORT

Title of the project activity	Wind Power Project in Tirupur District	
UNFCCC reference number of the project activity	9538	
Version number of the monitoring report	01	
Completion date of the monitoring report	02/02/2017	
Monitoring period number and duration of this monitoring period	Monitoring Period No: 02 Duration: 08/03/2014 to 07/01/2017	
Project participant(s)	NSL Wind Power Company (Phoolwadi) Pvt. Ltd	
Host Party	India	
Sectoral scope(s)	Sectoral scope 1 : Energy industries (renewable - / non-renewable sources)	
Selected methodology(ies)	ACM 0002 , version 13.0.0	
Selected standardized baseline(s)	Not Applicable	
Estimated amount of GHG emission reductions or net GHG removals by sinks for this monitoring period in the registered PDD	308,752 tCO ₂ e	
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period	GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards
	Not Applicable	303,765 tCO ₂ e

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

>>

NSL Wind Power Company (Phoolwadi) Pvt. Ltd. has implemented a 49.5 MW wind Power project in Tirupur District in the state of Tamil Nadu. ReGen Powertech Private Limited is the Technology Supplier for this project.

The proposed project activity involves power generation using Wind Energy Converters (WEC) of 1.5 MW capacity each. The purpose of the project activity is to commission and operate 33 WECs to a total capacity of 49.5 MW in the state of Tamil Nadu. The power generated by this project activity has been supplied to Tamil Nadu state electricity grid, which is a part of Southern Grid, India. The project activity will help to reduce the supply demand gap in the state and also helps in contributing to the sustainable development by using wind energy as the source of power generation and reduction of GHG Emission.

The project has got registered under UNFCCC on 29/01/2013 and the crediting period starts on 31/01/2013. This is second monitoring period covering 08/03/2014 to 07/01/2017 and the total emission reduction achieved during this period is 303,765 tCO₂.

In the absence of the project activity, the equivalent amount of electricity would have been generated by power plants connected to the southern grid, which is dominated by fossil fuels.

The project activity has been commissioned & running successfully (commissioning details of each WEC are mentioned in section B.1 of monitoring report) and the operation details are provided in spread sheet and summary of operation details are provided in Annex –III of monitoring report.

A.2. Location of project activity

>>

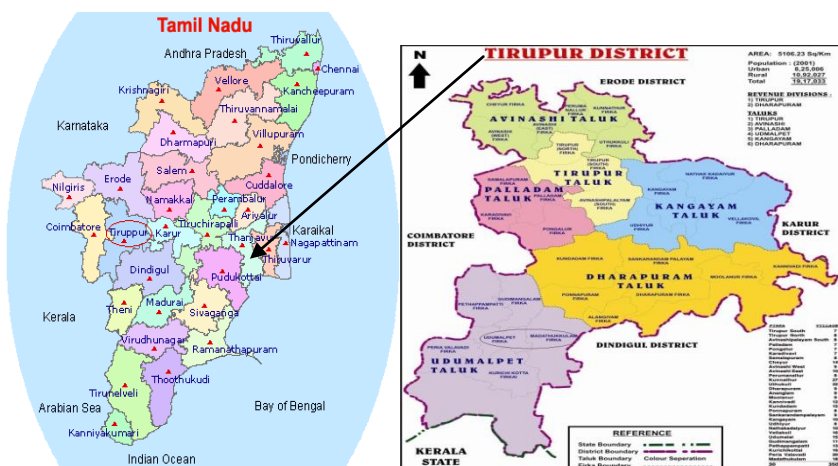
The wind power project is located in Tiruppur District, Tamil Nadu State, India. The geo-coordinates of the project location is as follows:

Table 1: Geo Co-ordinates of WECs.

S.No	Location No	Village	Latitude	Longitude
1	RKPT 465	Kondampatti	10° 42' 15.391" N	77° 14' 17.901" E
2	RAK 444	Anaikadavu	10° 43' 30.983" N	77° 9' 40.871" E
3	RIN 397	Iluppanagaram	10° 42' 40.834" N	77° 10' 24.108" E
4	RKPT 502	Kondampatti	10° 42' 1.297" N	77° 14' 9.738" E
5	RIN 421	Iluppanagaram	10° 43' 5.674" N	77° 9' 58.754" E
6	RVG 274	Vadugapalayam	10° 41' 36.949" N	77° 13' 48.538" E
7	RSP 68	Somavarapatti	10° 42' 2.215" N	77° 12' 33.058" E
8	RVP 433	Virugalpatti	10° 42' 21.917" N	77° 11' 12.368" E
9	RIN 433	Iluppanagaram	10° 42' 59.917" N	77° 10' 21.744" E
10	RVP 53	Virugalpatti	10° 43' 1.547" N	77° 8' 57.101" E
11	RVG 292	Vadugapalayam	10° 42' 13.301" N	77° 13' 42.751" E
12	RVP 86	Virugalpatti	10° 42' 57.446" N	77° 8' 38.451" E
13	RJKM 17	J.Krishnapuram	10° 48' 34.394" N	77° 14' 27.477" E
14	RJKM 529	J.Krishnapuram	10° 47' 45.572" N	77° 15' 32.568" E
15	RKPI 240	Kammalapatti	10° 49' 41.656" N	77° 14' 57.202" E
16	RKPI 257	Kammalapatti	10° 49' 57.304" N	77° 14' 30.628" E
17	RJKM 593	J.Krishnapuram	10° 48' 25.535" N	77° 14' 46.729" E
18	RSPR 433	Sencheriputhur	10° 48' 20.444" N	77° 15' 28.880" E
19	RJKM 535	J.Krishnapuram	10° 48' 1.713" N	77° 15' 27.621" E
20	RTK 137	Talakkarai	10° 48' 35.987" N	77° 13' 51.881" E
21	RSPR 157	Sencheriputhur	10° 48' 31.749" N	77° 15' 9.055" E
22	RSPR 161	Sencheriputhur	10° 48' 39.607" N	77° 15' 33.334" E
23	RAYM 40	Ayyampalayam	10° 49' 30.720" N	77° 14' 39.941" E
24	RSPR 199	Sencheriputhur	10° 48' 47.367" N	77° 16' 2.089" E
25	RJKM 62	J.Krishnapuram	10° 48' 16.891" N	77° 13' 46.935" E
26	RKTM 366	Kottamangalam	10° 40' 22.112" N	77° 15' 46.576" E

27	RKTM 389	Kottamangalam	10° 40' 11.207" N	77° 15' 6.924" E
28	RKTM 250	Kottamangalam	10° 39' 36.748" N	77° 15' 43.511" E
29	RKTM 540	Kottamangalam	10° 39' 27.480" N	77° 14' 12.494" E
30	RPM 364	Pookulam	10° 38' 2.905" N	77° 13' 56.287" E
31	RPM 331	Pookulam	10° 38' 5.271" N	77° 13' 25.585" E
32	RPM 349	Pookulam	10° 37' 27.713" N	77° 13' 54.617" E
33	RAM 65	Amandakadavu	10° 45' 43.902" N	77° 14' 14.830" E

The location of project activity is shown in the following maps.



A.3. Parties and project participant(s)

Party involved ((host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate whether the Party involved wishes to be considered as project participant (yes/no)
India (host)	Private entity: NSL Wind Power Company (Phoolwadi) Pvt. Ltd.	No

A.4. Reference of applied methodology and standardized baseline

>>

Applied Methodology Reference: ACM 0002 version 13.0.0

Title: “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”

Tool: The tools used for the project activity are as follows:

- “Tool to calculate emission factor for an electricity system” – Version 02.2.1, Approved in EB 63¹.
- “Tool for the demonstration and assessment of additionality”- Version 06.0.0. Approved in EB 65².
- “Guidance on assessment of investment analysis”- Version 5. Approved in EB 62³.

¹ http://cdm.unfccc.int/filestorage/Z/U/L/ZULY095DAFBVKQ2IEXSM6HRT7NOG1C/eb63_repan19.pdf?t=TIV8bHc3MWQ2fDCJz9hEWk1d5fEqXWIEBK

² http://cdm.unfccc.int/filestorage/9/A/G/9AGSVUJ4HP731N0DRL8CYF5EXTBZKQ/eb65_repan21.pdf?t=NDJ8bHc1MWRwfDB_K5q9GNf7yq--IAB8iFq2

³http://cdm.unfccc.int/filestorage/O/H/N/OHNFC4T6RUZEQXDL20JVG7MWK35YI1/eb62_repan5.pdf?t=eDI8bHc2ZXhyfDBPwToPTqhFirWImG0aC3Np

A.5. Crediting period of project activity

>>

Type of Crediting Period: Fixed**Start date of crediting period:** 31/01/2013**Length of Crediting Period:** 10 years (From 31/01/2013 to 30/01/2023)**A.6. Contact information of responsible persons/entities**

>>

NSL Wind Power Company (Phoolwadi) Pvt. Ltd.

(Contact details are provided in Appendix 1)

SECTION B. Implementation of project activity**B.1. Description of implemented registered project activity**

>>

The project activity has been commissioned & running successfully. As on 31/03/2012, the project participant has completed the commissioning of all the 33 WECs. There have been no events which has affected the GHG emission reductions and monitoring. Overall the project is running successfully. The commissioning details of the project activity are as follows:

S.No	Meter Serial Number/ Ht.Sc.No	Village	Commissioning date
1	URA – 41	Vadugapalayam	11.07.2011
2	URA-51	Virugalpatti & Iluppanagaram	18.08.2011
3	URA – 52	Virugalpatti	18.08.2011
4	URA – 53	Virugalpatti	18.08.2011
5	URA – 54	Virugalpatti	18.08.2011
6	URA – 57	Kondampatti	18.08.2011
7	URA – 58	Somavarapatti	18.08.2011
8	URA – 62	Iluppanagaram	23.08.2011
9	URA – 63	Iluppanagaram	23.08.2011
10	URA – 68	Vadugapalayam	17.09.2011
11	URA – 69	Kondampatty	17.09.2011
12	URA – 72	Kottamangalam	23.09.2011
13	URA – 73	Kottamangalam	23.09.2011
14	URA – 74	Kottamangalam	27.09.2011
15	URA – 80	Anaikadavu	29.09.2011
16	URA – 81	Kottamangalam	29.09.2011
17	URA – 88	J.Krishnapuram	30.09.2011
18	URA – 89	Sencheriputhur	30.09.2011
19	URA – 90	Sencheriputhur	30.09.2011
20	URA – 91	J.Krishnapuram	30.09.2011
21	URA – 92	J.Krishnapuram	30.09.2011
22	URA – 93	Thalakkurai	30.09.2011
23	URA – 94	J.Krishnapuram	30.09.2011
24	URA – 95	S.Ayyampalayam	30.09.2011
25	URA – 96	Sencheriputhur	30.09.2011

26	URA – 97	Pukkulam	30.09.2011
27	URA – 98	Pukkulam	30.09.2011
28	URA – 99	Kammalapatti	03.10.2011
29	URA – 105	J.Krishnapuram	08.12.2011
30	URA – 106	Sencheriputhur	08.12.2011
31	URA – 108	Kammalapatti	06.01.2012
32	URA – 109	Pukkulam	27.02.2012
33	URA – 133	Amandakadavu	31.03.2012

The operation details are provided in spread sheet submitted to DOE and summary of operation details are provided of monitoring report.

Technology:

The project activity installed WECs of ReGen make V 82 model of 1.5 MW each. The technical details are shown below⁴.

General Specifications:

WEC Type : Direct Drive Horizontal Axis Wind Turbines with Variable Rotor speed
 Rated Power : 1500 kW
 Rotor Diameter : 82 m
 Number of Blades : 3 Nos
 Hub-Height : 85 m
 Power control system : Pitch control
 Swept Area : 5258 m²

Wind Conditions:

Cut – in speed : 3 m/s
 Rated Wind speed : 13 m/s (approximately)
 Cut-out Speed : 22 m/s

Generator:

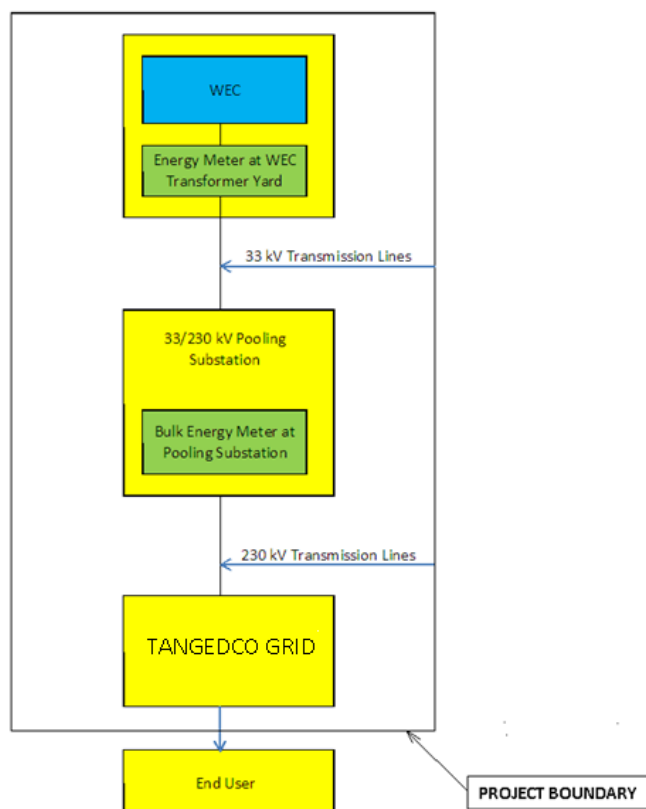
Type : Synchronous, VariableSpeed
 Cooling : Passive Air cooled
 Excitation : Permanent Magnet

Braking system:

Primary Brake System : Aerodynamic Brake, Individual full 90 deg. Blade pitch and control for each blade.

Project Boundary: The project boundary is as follow:

⁴ Proposal from the WEC supplier



B.2. Post-registration changes

B.2.1. Temporary deviations from registered monitoring plan, applied methodology or applied standardized baseline

>>

Not Applicable

B.2.2. Corrections

>>

Not Applicable

B.2.3. Changes to start date of crediting period

>>

Not Applicable

B.2.4. Inclusion of a monitoring plan to the registered PDD that was not included at registration

>>

Not Applicable

B.2.5. Permanent changes from registered monitoring plan, applied methodology or applied standardized baseline

>>

Not Applicable

B.2.6. Changes to project design of registered project activity

>>

Not Applicable

B.2.7. Types of changes specific to afforestation or reforestation project activity

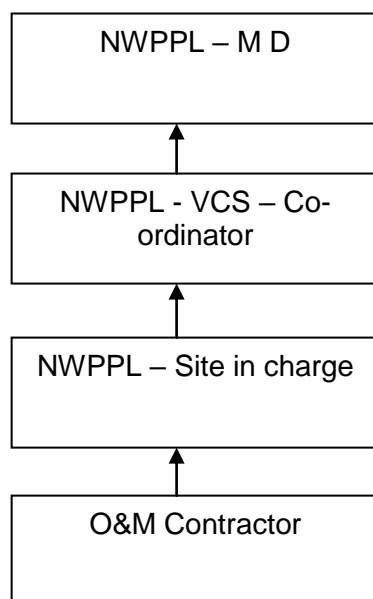
>>

Not Applicable

SECTION C. Description of monitoring system

>>

The organizational structure of the project activity is as follows.



The project participant has entered into agreement with the WEC Supplier – ReGen Powertech Private Limited for the operation and maintenance of WECs. The WEC supplier has dedicated and technically well-equipped O&M team for day to day Operation and maintenance of each WEC.

O&M contractor will provide a monthly report, which includes generation data, major breakdown events and machine availability. Project Manager is responsible for recording of monthly power export and import data. Monthly power export and import data is been sent regularly to CDM coordinator of NSL Wind power Company (Phoolwadi) Pvt. Ltd. As the operation and maintenance of the WECs have been outsourced to the technology supplier, ReGen Powertech Private Limited has trained the O&M personnel involved in the site periodically.

The Operation & Maintenance of the project is being done by ReGen Powertech Private Limited. As per the monitoring plan, the electricity exported to the TANGEDCO Limited grid through the

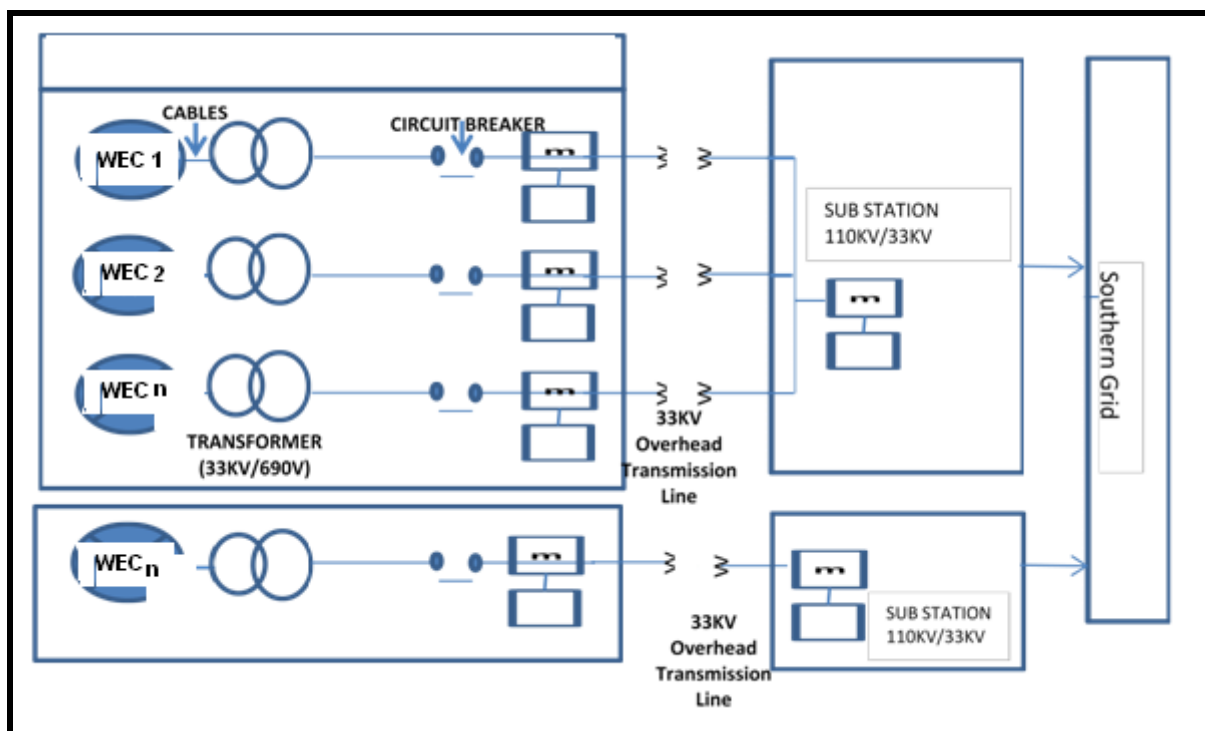
project activity and the electricity imported from the TANGEDCO LIMITED grid is been monitored. The metering system comprises of a energy meter at each WEC transformer yard that measure export and import of electricity. The energy meters are sealed by the representatives of TANGEDCO Limited. The O&M personnel are responsible for recording the generation data from each WEC on daily basis at the site. This is done through a Central Monitoring System (CMS) available at the project site. Monthly readings of energy meters are recorded by the officials from TANGEDCO (Tamil Nadu Generation and Distribution Corporation) Limited and the statement of TANGEDCO will be submitted to the project participant.

Export and Import readings recorded at energy meter are considered for billing purpose and estimation of emission reductions. A bulk meter consisting of main meter and check meter are installed at the nearby pooling substation to measure total quantity of electricity exported and imported for the project activity. The difference between the sum of individual meters reading and the bulk meter reading is the basis for the calculation of line loss percentage ($Z\%$). Net quantity of electricity exported by the project is calculated based on the net of sum of export from individual meters (E_{exp}), sum of import from individual meters (E_{imp}) and line losses export from individual WEC (E_{loss}). These readings are further used for billing purposes and the same will be used for the calculation of the emission reductions.

The energy meters are tested and calibrated at-least once in three years. The testing and calibration of the meter are conducted by the officials of TANGEDCO LIMITED or its authorized agencies and the results and correction so arrived will be applicable and binding on both the parties. During the test calibration, if there are errors beyond permissible limit, the bills shall be revised for the previous three months or for the exact period if known and agreed upon by both the parties, by applying correction as determined by the meter testing wing of the state transmission utility / distribution licensee to the consumption registered by the meters with lesser error.

All the data items monitored under the monitoring plan will be kept for 2 years after the end of crediting period or till the last issuance of ERs for this project activity, whichever occurs later.

The line diagram showing metering points is mentioned below.



SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante or at renewal of crediting period

(Copy this table for each piece of data and parameter)

Data/parameter:	$EF_{grid,OMsimple,y}$
Unit	tCO ₂ /MWh
Description	Operating margin CO ₂ emission factor of southern grid
Source of data	Central Electricity Authority:CO ₂ Emission Database CEA CO ₂ Baseline database Version 06 dated March 2011
Value(s) applied)	0.9677
Choice of data or measurement methods and procedures	The operating margin emission factor is a 3-year generation-weighted average (2008-11) data calculated to be 0.9677. It is calculated as per 'Tool to calculate the emission factor for an electricity system'.
Purpose of data	Baseline Emission calculation
Additional comments	The operating Margin is calculated ex ante and fixed during the crediting period.

Data/parameter:	$EF_{grid,BM,y}$
Unit	tCO ₂ /MWh
Description	Build margin CO ₂ emission factor of southern grid
Source of data	Central Electricity Authority:CO ₂ Emission Database CEA CO ₂ Baseline database Version 06 dated March 2011
Value(s) applied)	0.7634
Choice of data or measurement methods and procedures	For ex ante calculation the most recent data available has been used and the build margin thus calculated is 0.7634. It is calculated as per 'Tool to calculate the emission factor for an electricity system'.
Purpose of data	Baseline Emission calculation
Additional comments	The Build Margin would be calculated ex ante and fixed during the crediting period.

Data/parameter:	$EF_{grid,CM,y}$
Unit	tCO ₂ /MWh
Description	Combined margin CO ₂ emission factor of southern grid
Source of data	Central Electricity Authority:CO ₂ Emission Database CEA CO ₂ Baseline database Version 06 dated March 11
Value(s) applied)	0.9167
Choice of data or measurement methods and procedures	The combined margin would be calculated ex-ante and fixed for the entire crediting period and the combined margin thus calculated is 0.9167. It is calculated as per 'Tool to calculate the emission factor for an electricity system'.
Purpose of data	Baseline Emission calculation
Additional comments	The combined margin is calculated ex ante and fixed during the crediting period.

D.2. Data and parameters monitored

(Copy this table for each piece of data and parameter)

Data/parameter:	$EG_{PJ,y}$
Unit	MWh/year
Description	Quantity of Net Electricity exported to the grid during the year y.
Measured/calculated/default	Calculated
Source of data	Monthly energy Statement of TANGEDCO Limited.
Value(s) of monitored parameter	338,543 (Monthly Net electricity exported values have been included in Appendix-2 and further details are provided in emission reduction sheet)
Monitoring equipment	Not Applicable as Calculated Parameter
Measuring/reading/recording frequency:	Monthly Recording
Calculation method (if applicable):	Net quantity of electricity exported by the project is calculated as the net of sum of export from individual meters, sum of import from individual meters and line losses
QA/QC procedures:	Net electricity supplied to the grid by the project activity has been cross checked with invoices submitted to TANGEDCO LIMITED.
Purpose of data:	Data is use for baseline emission calculation.
Additional comments:	All the data items monitored under the monitoring plan will be kept for 2 years after the end of crediting period or till the last issuance of ERs for this project activity, whichever occurs later

Data/parameter:	E_{exp}
Unit	MWh
Description	Electricity exported from the power plant during the year y.
Measured/calculated/default	Measured
Source of data	Monthly energy Statement of TANGEDCO Limited.
Value(s) of monitored parameter	331,368 (Monthly Electricity exported values have been included in Appendix-3 and further details are provided in emission reduction sheet)
Monitoring equipment	Energy meters installed for individual WEC have been provided under section C of the MR.
Measuring/reading/recording frequency:	Measuring frequency: Data monitored Continuously (Automated measurement on a real time basis) Reading frequency: Daily Recording frequency: Monthly.
Calculation method (if applicable):	Not Applicable
QA/QC procedures:	Net electricity supplied to the grid by the project activity has been cross checked with invoices submitted to TANGEDCO LIMITED. The energy meters have to be calibrated at least once in 5 years as per CEA guidelines ⁵ . On a Conservative basis, the meters will be calibrated at least once in 3 years. All meter were calibrated before installation and the details have been provided under section C of the MR.

⁵ http://www.cea.nic.in/reports/regulation/meter_reg.pdf

Purpose of data:	Data is use for baseline emission calculation.
Additional comments:	All the data items monitored under the monitoring plan will be kept for 2 years after the end of crediting period or till the last issuance of ERs for this project activity, whichever occurs later

Data/parameter:	E _{imp}
Unit	MWh/year
Description	Electricity imported by the power plant during the year y.
Measured/calculated/default	Measured
Source of data	Monthly energy Statement of TANGEDCO Limited.
Value(s) of monitored parameter	676 (Monthly Electricity imported values have been included in Appendix-3 and further details are provided in emission reduction sheet)
Monitoring equipment	Energy meters installed for individual WEC have been provided under section C of the MR.
Measuring/reading/recording frequency:	Measuring frequency: Data monitored Continuously (Automated measurement on a real time basis) Reading frequency: Daily Recording frequency: Monthly.
Calculation method (if applicable):	Not Applicable
QA/QC procedures:	Net electricity supplied to the grid by the project activity has been cross checked with invoices submitted to TANGEDCO LIMITED. The energy meters have to be calibrated at least once in 5 years as per CEA guidelines ⁶ . On a Conservative basis, the meters will be calibrated at least once in 3 years. All meter were calibrated before installation and the details have been provided under section C of the MR.
Purpose of data:	Data is use for baseline emission calculation.
Additional comments:	All the data items monitored under the monitoring plan will be kept for 2 years after the end of crediting period or till the last issuance of ERs for this project activity, whichever occurs later

Data/parameter:	E _{loss}
Unit	MWh/year
Description	Line Loss Export from the power plant during the year y.
Measured/calculated/default	Calculated
Source of data	Monthly energy Statement of TANGEDCO Limited.
Value(s) of monitored parameter	6,499 (Monthly Line Loss Exported values have been included in Appendix-3 and further details are provided in emission reduction sheet)
Monitoring equipment	Not Applicable as Calculated Parameter
Measuring/reading/recording frequency:	Recording frequency: Monthly.

⁶ http://www.cea.nic.in/reports/regulation/meter_reg.pdf

Calculation method (if applicable):	The line loss export from the power plant has been calculated by multiply the line loss percentage with the Electricity exported from the power. The following formulae will be used for calculation: $E_{loss} = E_{exp} \times \text{Line Loss Percentage (Z\%)}$ Total electricity exported by the WECs (inclusive of other project participants) was measured at the bulk meter located at the substation. The difference between the sum of individual meter readings of export of WECs (inclusive of other project participants connected to the bulk meter) and the electricity export measured at the bulk meter has been used for calculation of Line Loss Percentage (Z%).
QA/QC procedures:	This parameter can be cross checked with invoiced submitted to TANGEDCO LIMITED.
Purpose of data:	Data is use for baseline emission calculation.
Additional comments:	All the data items monitored under the monitoring plan will be kept for 2 years after the end of crediting period or till the last issuance of ERs for this project activity, whichever occurs later

D.3. Implementation of sampling plan

>>

Not Applicable.

SECTION E. Calculation of emission reductions or GHG removals by sinks

E.1. Calculation of baseline emissions or baseline net GHG removals by sinks

>>

The baseline emissions are the product of electrical energy baseline $EG_{PJ,y}$ expressed in MWh of electricity produced by the renewable generating unit multiplied by the grid emission factor. Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors.

$$BE_y = EG_{PJ,y} * EF_{CO_2,grid,y}$$

Where:

BE_y : Baseline Emissions in year y; t CO₂

$EG_{PJ,y}$:Energy baseline in year y; MWh

EF_{CO_2} :Emission Factor in year y; t CO₂e/MWh

As per the registered PDD, combined margin emission factor is 0.9167 tCO₂ /MWh. Hence the baseline emissions for the project activity for the current monitoring period are as follows.

$$BE_y = EG_{BL,y} * EF_{CO_2} = 331,368 \times 0.9167 = 303,765 \text{ tCO}_2 \text{ (Round down).}$$

E.2. Calculation of project emissions or actual net GHG removals by sinks

>>

The project activity is a wind power project and there are no emission associated with the project. Hence the Project Emission for the project activity is zero.

E.3. Calculation of leakage

>> The project activity is a Greenfield wind power project and there is no technology transfer with respect to this project activity. Hence the Leakage emissions for the project are zero.

E.4. Summary of calculation of emission reductions or net GHG removals by sinks

Item	Baseline emissions or baseline net GHG removals by sinks (t CO ₂ e)	Project emissions or actual net GHG removals by sinks (t CO ₂ e)	Leakage (t CO ₂ e)	GHG emission reductions or net GHG removals by sinks (t CO ₂ e) achieved in the monitoring period		
				Up to 31/12/2012	From 01/01/2013	Total amount
Total	303,765	0	0	0	303,765	303,765

E.5. Comparison of actual emission reductions or net GHG removals by sinks with estimates in registered PDD

Item	Values estimated in ex ante calculation of registered PDD	Actual values achieved during this monitoring period
Emission reductions or GHG removals by sinks (t CO ₂ e)	308,752	303,765

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

>>

From the above section E.5, we can observe that actual emission reduction for the monitoring is less than estimated emission reductions by 1.62% only.

Appendix 1. Contact information of project participants and responsible persons/entities

Project participant and/or responsible person/ entity	<input checked="" type="checkbox"/> Project participant <input checked="" type="checkbox"/> Person/entity responsible for completing the CDM-MR-FORM
Organization name	NSL Wind Power Company (Phoolwadi) Pvt. Ltd.
Street/P.O. Box	Road No. 12, Banjara Hills,
Building	#8-2-684/2/A, NSL ICON
City	Hyderabad
State/region	Andhra Pradesh
Postcode	500 034
Country	India
Telephone	040 3051 4444
Fax	040 2332 7919
E-mail	-
Website	-
Contact person	-
Title	General Manager (GM)
Salutation	Mr
Last name	P
Middle name	-
First name	Nageswara Rao
Department	Finance
Mobile	-
Direct fax	040 2332 7919
Direct tel.	040 3051 4444
Personal e-mail	pnr@nslindia.com

Appendix 2. Monthly CER generated and Net electricity exported

Month	EGPJ,y (Quantity of Net Electricity exported to the grid during the year y.)(MWh)	Baseline Emission Factor (tCO2/MWh)	Baseline emissions (tCO2)	Project emissions (tCO2)	Leakage emissions (tCO2)	Emission Reductions (tCO2)
Apr.14	2,261.03	0.9167	2,073	0	0	2,073
May.14	5,776.91	0.9167	5,296	0	0	5,296
Jun.14	4,682.83	0.9167	4,293	0	0	4,293
Jul.14	14,582.63	0.9167	13,368	0	0	13,368
Aug.14	22,107.65	0.9167	20,266	0	0	20,266
Sep.14	25,628.01	0.9167	23,493	0	0	23,493
Oct.14	17,404.52	0.9167	15,955	0	0	15,955
Nov.14	10,780.81	0.9167	9,883	0	0	9,883
Dec.14	2,919.65	0.9167	2,676	0	0	2,676
Jan.15	2,247.48	0.9167	2,060	0	0	2,060
Feb.15	1,819.91	0.9167	1,668	0	0	1,668
Mar.15	2,611.52	0.9167	2,394	0	0	2,394
Apr.15	2,002.49	0.9167	1,836	0	0	1,836
May.15	2,887.62	0.9167	2,647	0	0	2,647
Jun.15	2,032.30	0.9167	1,863	0	0	1,863
Jul.15	7,734.14	0.9167	7,090	0	0	7,090
Aug.15	17,461.81	0.9167	16,007	0	0	16,007
Sep.15	21,815.55	0.9167	19,998	0	0	19,998
Oct.15	17,109.38	0.9167	15,684	0	0	15,684
Nov.15	11,154.20	0.9167	10,225	0	0	10,225
Dec.15	2,167.98	0.9167	1,987	0	0	1,987
Jan.16	951.45	0.9167	872	0	0	872
Feb.16	2,381.63	0.9167	2,183	0	0	2,183
Mar.16	2,244.75	0.9167	2,058	0	0	2,058
Apr.16	2,748.82	0.9167	2,520	0	0	2,520
May.16	3,085.67	0.9167	2,829	0	0	2,829
Jun.16	6,752.87	0.9167	6,190	0	0	6,190
Jul.16	13,272.60	0.9167	12,167	0	0	12,167
Aug.16	21,291.98	0.9167	19,518	0	0	19,518
Sep.16	24,783.25	0.9167	22,719	0	0	22,719
Oct.16	24,472.88	0.9167	22,434	0	0	22,434
Nov.16	22,558.30	0.9167	20,679	0	0	20,679
Dec.16	8,206.48	0.9167	7,523	0	0	7,523
Jan.17	1,429.07	0.9167	1,310	0	0	1,310
Total	331,368		303,765	0	0	303,765

Appendix 3. Monthly Values of Monitoring Parameters

Month	E,exp (Electricity exported from the power plant during the year y.) (MWh)	E,imp (Electricity imported by the power plant during the year y.) (MWh)	Line Loss (%)	E,loss (Line Loss Export from the power plant during the year y.) (MWh)	EGPJ,y (Quantity of Net Electricity exported to the grid during the year y.)(MWh)
Apr.14	2,346	24.79	2.55%	59.81	2,261.03
May.14	5,870	17.74	1.28%	75.13	5,776.91
Jun.14	4,772	28.46	1.27%	60.60	4,682.83
Jul.14	15,026	10.94	2.88%	432.76	14,582.63
Aug.14	22,606	7.97	2.17%	490.55	22,107.65
Sep.14	26,025	9.12	1.49%	387.77	25,628.01
Oct.14	17,680	12.50	1.49%	263.44	17,404.52
Nov.14	11,042	21.34	2.17%	239.61	10,780.81
Dec.14	2,972	37.08	0.52%	15.46	2,919.65
Jan.15	2,296	19.73	1.27%	29.16	2,247.48
Feb.15	1,868	22.58	1.35%	25.21	1,819.91
Mar.15	2,713	21.07	2.97%	80.58	2,611.52
Apr.15	2,062	27.46	1.57%	32.38	2,002.49
May.15	2,959	24.72	1.57%	46.45	2,887.62
Jun.15	2,126	44.04	2.33%	49.53	2,032.30
Jul.15	7,996	31.22	2.89%	231.10	7,734.14
Aug.15	17,813	16.63	1.88%	334.89	17,461.81
Sep.15	22,309	6.67	2.18%	486.33	21,815.55
Oct.15	17,400	9.14	1.62%	281.89	17,109.38
Nov.15	11,365	18.43	1.69%	192.06	11,154.20
Dec.15	2,255	33.84	2.38%	53.68	2,167.98
Jan.16	1,035	39.22	4.25%	43.97	951.45
Feb.16	2,435	19.06	1.41%	34.33	2,381.63
Mar.16	2,302	20.95	1.57%	36.14	2,244.75
Apr.16	2,814	21.24	1.57%	44.18	2,748.82
May.16	3,165	32.64	1.47%	46.52	3,085.67
Jun.16	6,866	24.12	1.29%	88.57	6,752.87
Jul.16	13,593	17.23	2.23%	303.12	13,272.60
Aug.16	21,788	5.81	2.25%	490.23	21,291.98
Sep.16	25,249	4.03	1.83%	462.06	24,783.25
Oct.16	25,043	1.75	2.27%	568.48	24,472.88
Nov.16	23,005	2.47	1.93%	443.99	22,558.30
Dec.16	8,271	16.92	0.57%	47.14	8,206.48
Jan.17	1,476	24.82	1.49%	21.99	1,429.07
Total	338,543	676		6,499	331,368

- - - - -

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
05.1	4 May 2015	Editorial revision to correct version numbering.
05.0	1 April 2015	Revisions to: <ul style="list-style-type: none"> • Include provisions related to delayed submission of a monitoring plan; • Provisions related to the Host Party; • Remove reference to programme of activities; • Overall editorial improvement.
04.0	25 June 2014	Revisions to: <ul style="list-style-type: none"> • Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0)); • Include provisions related to standardized baselines; • Add contact information on a responsible person(s)/ entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1; • Change the reference number from <i>F-CDM-MR</i> to <i>CDM-MR-FORM</i>; • Editorial improvement.
03.2	5 November 2013	Editorial revision to correct table in page 1.
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB70, Annex 11).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01	28 May 2010	EB 54, Annex 34. Initial adoption.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: monitoring report		