

“Wind Power Project at Anthiyur, Tamil Nadu”

Voluntary Carbon Standard Emission Reduction Monitoring Report

First Verification
For the Monitoring period
1st April 2006 to 7th February 2010

Version 03 Dated 16/12/2010

Project Location
Udumalpet, Tamil Nadu
India

Nuziveedu Seeds Limited
NSL ICON, 4th Floor
Road No. 12, Banjara Hills,
Hyderabad
Andhra Pradesh – 500 034
India
Email: nuziveeduseeds@hotmail.com

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Brief Description of the project activity

The project activity is a 14.85 MW wind farm consisting of 9 Vestas (India) Pvt. Ltd. WTGs of NM82/1650 kW capacity each. The project activity is implemented in the Anthiyur Village of Udumalpet and Pollachi Talukas of Coimbatore District in state of Tamil Nadu.

The project activity involves implementation of WTGs as a voluntary measure to strengthen the regional grid of India through wind power generation potential available to India. The generated electricity shall be fed into the Tamil Nadu Electricity Board (TNEB). The electricity generation from the project activity is free of GHG emissions since wind energy (a zero emission source) is harnessed for electricity generation. However, in the baseline scenario, in the absence of the project activity the electricity would have been generated from the power stations operating in the grid.

The commissioning date of each of the WTGs along with their H.T. Service Number is provided below;

Location Name	S.F.Nos	HT.Service Number	Date of commissioning
NSL 1	38 & 39/3	751	31.03.2005
NSL 2	150/3A2,150/3B, 158/1	752	31.03.2005
NSL 3	104/1 & 109/1	754	31.03.2005
NSL 4	56/1C, 47/8 & 56/1B	788	29.04.2005
NSL 5	431/3	753	31.03.2005
NSL 6	95/2 , 95/3 & 95/4	808	17.05.2005
NSL 7	17 & 18	728	30.03.2005
NSL 8	2/1	755	31.03.2005
NSL 9	254/A1, 255/2B, 255/2C	690	26.03.2005

The total emission reductions achieved in this monitoring period are **144,528 tCO₂**.

Project participants:

Nuziveedu Seeds Limited (Project Promoter)

Location of the project activity:

S. No	Location Name	S.F.Nos	Village Name	Taluk Name	Co-ordinates			HT.Service Number	Date of commissioning
					North	East	Altitude in metres		
1	NSL 1	38 & 39/3	Koolanayakan Patti	Pollachi	10°36' 49.6"	77°09' 15.3"	385	751	31.03.2005
2	NSL 2	150/3A2,150/3B, 158/1	Gomangalam Puthoor	Pollachi	10°37' 21.4"	77°09' 30.0"	380	752	31.03.2005
3	NSL 3	104/1 & 109/1	Gomangalam Puthoor	Pollachi	10°36' 48.2"	77°09' 51.0"	386	754	31.03.2005
4	NSL 4	56/1C, 47/8 & 56/1B	Gomangalam Puthoor	Pollachi	10°37' 01.2"	77°09' 45.6"	383	788	29.04.2005
5	NSL 5	431/3	Gomangalam	Pollachi	10°37' 15.5"	77°09' 52.9"	379	753	31.03.2005
6	NSL 6	95/2 , 95/3 & 95/4	Gomangalam Puthoor	Pollachi	10°36' 39.6"	77°10' 07.7"	385	808	17.05.2005
7	NSL 7	17 & 18	Venasa Patti	Udumalpet	10°37' 11.7"	77°11' 25.2"	383	728	30.03.2005
8	NSL 8	.2/1	Venasa Patti	Udumalpet	10°37' 27.5"	77°11' 21.0"	379	755	31.03.2005
9	NSL 9	254/A1, 255/2B, 255/2C	Pannai Kinaru	Udumalpet	10°38' 33.8"	77°11' 02.9"	364	690	26.03.2005

Technical Description of the project:

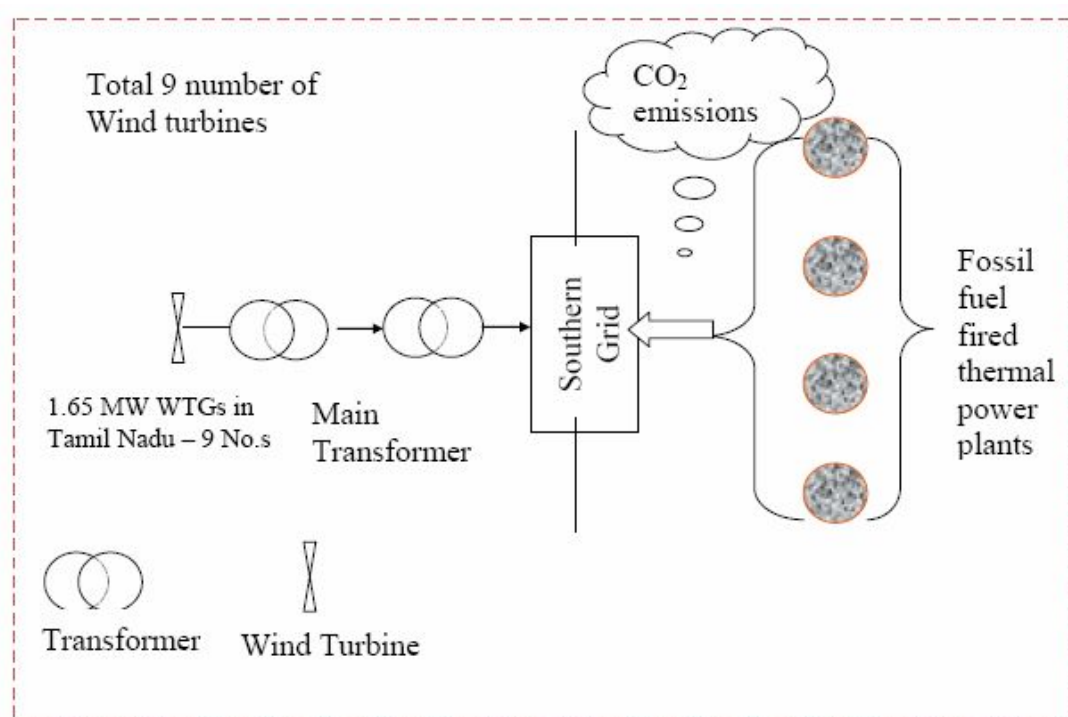
There are 9 Nos. Vestas (India) Pvt. Ltd. machines of 1650 kW WTGs. The estimated Plant Load Factor as provided by an independent third party Micro siting study is 25.20%. Each WTG consists of

- Nacelle assembly consisting of gear box, generator and
- other accessories
- Three bladed active stall rotor of 82m diameter
- WTG microprocessor control unit and control panels
- 75.5 m conical steel painted tower
- Civil Foundation
- Transformers and related electricals including circuit
- breakers and Metering units

The technical details of the WTGs are detailed as below:

Operational conditions	
Cut in wind speed	3.5 m/s
Cut out wind speed	20 m/s
Maximum rotational speed	14.4 rpm
Main specification	
Rotor Diameter	82 m
Number of Blades	3
Rotational speed (synchronous)	14.4 rpm
Rotor	
Rotor Diameter	82 m
Tilt angle	5°
Swept area	5281 m ²
Generator	
Nominal Power	1650 kW
Rotational Speed	1012 rpm at rated power
Control system	
Manufacture	VESTAS control systems
Type	Microprocessor based

The schematic diagram of the project boundary is as follows;



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

Project category is a part of the VCS Board approved CDM GHG program. The project is a 'Grid connected Renewable Electricity Generation' plant that falls under the Scope number-1 of sectoral scope: Energy Industries (renewable/non- renewable sources). The version 14 of AMS-1.D is used for the project activity.

The project is not a grouped project.

A combined margin emission factor (CM), consisting of the combination of operating margin emission factor (OM) and build margin emission factor (BM) is calculated according to the procedures prescribed in the “Tool to calculate the emission factor of an electricity system”.

Duration of the project activity/crediting period

Registration date: The project was registered with Voluntary Carbon Standard 2007.1 on 15/11/2009.

Project Start date: 26/03/2005 (Date on which the project began reducing or removing GHG emissions i.e. the commissioning date of the project).

VCS project crediting period: 01/04/2006 to 31/03/2015

Monitoring period: The monitoring period chosen was from 1st April 2006 to 07th February 2010

Statement to which extent the project has been implemented as planned

The project has been completed as planned and described in the VCS-Registered Project Document (PD), Version 02 and dated 27 October 2009.

Project's Contribution to Sustainable Development

The project primarily assists the region as a whole in stimulating and accelerating the commercialization of grid connected renewable energy technologies.

The project activity is contributing to the sustainable development¹ in the following way:

- *Social well being:* Enhancing local employment in the rural area around the project. Capacity building and empowerment of vulnerable sections of the rural community dwelling in the project area.
- *Economical well being:* The project activity is generating small business opportunities for local stakeholders such as bankers, suppliers, manufacturers and contractors.
- *Environmental well being:* This project activity contributing to sustainable development through generation of eco-friendly power resulting in the increase of the share of renewable energy power generation in the regional and national grid. It would aid in strengthening India's rural electrification coverage. Wind power projects also aid in reducing GHG emissions and other pollutants (Sox, NOx, PM etc.).
- *Technological well being:* The project activity helps in increasing the share of renewable energy power generation in the regional and national grid. The project activity also, encourages clean, renewable and efficient technologies.

¹ As stipulated by Ministry of Environment and Forest social, economic, environmental and technological well being are the sustainable development indicators for a project activity. MoEF Web site http://envfor.nic.in/cdm/host_approval_criteria.htm#

Monitoring Information

Types of data and information to be reported, including units of measurement

The approved monitoring methodology (AMS-1.D version 14) requires monitoring of the gross electricity exported, net electricity supplied to the grid and the electricity imported from the project activity.

Metering Equipment

Metering system

Energy Meter for each WTG for metering the exported electricity to the grid and imported electricity from grid system

Data Monitoring:

The data is monitored at the main meter of each WTG.

1. Equipment:

The main meter is an Energy Meter of accuracy class (0.5%). The meters have the capability of recording half-hourly and monthly readings.

2. Meter readings:

The monthly meter readings at the project site and receiving station are taken simultaneously by the site personnel and electricity board personnel every month. A document indicating number of kilo-watt-hours indicated by meter is prepared and signed by officials of the electricity board and operating Office.

a) Accuracy:

All meters installed at the project site are of 0.5% accuracy class. Each meter is jointly inspected and sealed in the presence of both the parties. The accuracy of monitoring parameter is ensured by adhering to the calibration and testing procedure as described in the QA/QC procedures as per the registered PD. The project adheres to all the mandatory regulatory and statutory requirements at the state as well as national level. The data will be archived for a period of 2 years after the end of the crediting period in the hard copy format.

b) Testing:

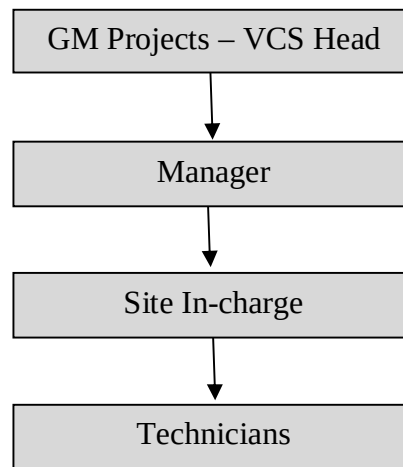
All meters are tested for accuracy every year in accordance with the electricity standards. The consumption by equipments / electricity exported to the grid registered by main meters hold good for purpose of billing as long as errors in main meters are within the permissible limits.

3. Billing:

A daily generation report is prepared by site personnel. As discussed the meters are capable of storing readings, which is submitted to the state electricity board along with the cumulative meter reading for the wind farm. This is maintained by the state authorities. These readings are used to determine line losses as well as power exported to the grid.

Monitoring roles and responsibilities

The operational and management structure implemented by NSL is as follows:



The General Manager (GM) manager is the head of the VCS team and is responsible for coordinating with the manager and ensures that the monitoring is carried out in a transparent and accurate manner. The manager coordinates with the site in charge and the technicians and takes care of all the day to day activities of the plant and is responsible for testing the equipment, billing and archiving the data. The site in charge and the technicians are responsible for recording the operation and downtime hours of the project activity. The monitoring team is also responsible for the following:

- Overall maintenance of the WTGs
- Calculation of actual creditable emission reduction in the most transparent and relevant manner
- For claims and settlement of electricity payment from the state utility every month
- Renewal of contracts with OEMs, insurance etc
- Periodical meter checking, calibration etc
- Meet the training needs of the personnel other than from the O&M contract at site
- Extracting, checking and Maintenance of data both manual and electronic form and preservation for the entire crediting period

The authority and responsibility of overall project coordination in relation to the VCS validation would be with the project proponent.

Procedures for internal audit and Management review:

An internal audit of the project activity is done on an annual basis by a special audit team. The audit team comprises of competitive persons who are appointed by the General Manager in charge. The audit team after the audit submits their observations to the Manager for his review and necessary action. The Manager then instructs the VCS team to take the required corrective action if any, suggested by the audit team.

Procedures for corrective actions for better future monitoring and reporting:

Errors or deviations are identified during the annual internal audits, if any. The VCS team Head (i.e., General Manager in charge) takes up these matters during the annual VCS team meetings (that normally happen a few days after internal audit reports are prepared and submitted). The root cause of these errors is discussed and appropriate actions are taken for better monitoring and reporting.

Parameters being monitored according to Monitoring Plan

For the project activity, the following parameters are being monitored on continuous basis:

Data / Parameter:	EG Gross,y
Data unit:	kWh
Description:	Gross Electricity export to the grid by the project during the year y
Source of data to be used:	From the certified joint meter readings
Value of data applied for the purpose of calculating expected emission reductions in the validated VCS PD	EG Gross,y data for this monitoring period is as follows: 37585544 kWh (1 st April 2006 to 8 th Jan 2007) 38657032 kWh (08 th Jan 2007 to 9 th Jan 2008) 37261200 kWh (9 th Jan 2008 to 7 th Jan 2009) 42692020 kWh (7 th Jan 2009 to 7 th Jan 2010) 994640 kWh (7 th Jan 2010 to 7 th Feb 2010)
Description of measurement methods and procedures to be applied:	Gross electricity generated by each WTG is recorded with the aid of energy meter for that WTG. The procedures for metering and meter reading will be as per the provisions of the power purchase agreement
QA/QC procedures to be applied:	The meters used are calibrated annually to ensure accuracy of data.
Any comment:	All records relating to the project are kept in a secure and retrievable manner for atleast two years after the end of the project crediting period.

Data / Parameter:	EG net,y
Data unit:	MWh/year
Description:	Net electricity supplied to the grid
Source of data to be used:	Monthly joint Energy Meter Reading Reports of 9 energy meters covering 9 numbers of WTG
Value of data applied for the purpose of calculating expected emission reductions in the validated VCS PD	EG net,y data for this monitoring period is as follows: 37469.44 kWh (1 st April 2006 to 8 th Jan 2007) 38458.12 kWh (08 th Jan 2007 to 9 th Jan 2008) 37034.09 kWh (9 th Jan 2008 to 7 th Jan 2009) 42492.05 kWh (7 th Jan 2009 to 7 th Jan 2010) 971.69 kWh (7 th Jan 2010 to 7 th Feb 2010)
Description of measurement methods and procedures to be applied:	Continuous measurement and monthly recording. The monitoring of 'net Electricity supplied to the grid' would be as per the details provided in Power Purchase Agreement signed between the TNEB and NSL. The HTSC No. for the individual or group of turbines represents the unique identification of the joint meter. The net electricity supplied to the grid is calculated by the summation of the net electricity export figures of individual WTGs.
QA/QC procedures to be applied:	Every month these meter readings will be recorded by TNEB representative and plant personnel. The meters at the sub station will be two-way meters and

	will be in the custody of TNEB. The quantity of net electricity supplied will be cross-verified from the invoice raised on TNEB by the project proponent.
Any comment:	All records relating to the project are kept in a secure and retrievable manner for atleast two years after the end of the project crediting period.

Data / Parameter:	EG import,y
Data unit:	kWh
Description:	Electricity imported from the grid by the project during the year y
Source of data to be used:	From the certified joint meter readings
Value of data applied for the purpose of calculating expected emission reductions in the validated VCS PD	EG import,y data for this monitoring period is as follows: 116096 kWh (1 st April 2006 to 8 th Jan 2007) 198908 kWh (08th Jan 2007 to 9th Jan 2008) 227108 kWh (9th Jan 2008 to 7th Jan 2009) 199964 kWh (7th Jan 2009 to 7th Jan 2010) 22948 kWh (7th Jan 2010 to 7th Feb 2010)
Description of measurement methods and procedures to be applied:	Calculated as measurement from the energy meters available at the generation points.
QA/QC procedures to be applied:	The electricity imported by the individual WTG is recorded. The electricity imported is adjusted against the gross export by the project activity to the grid. To be cross-checked with monthly invoices or receipts of payments
Any comment:	All records relating to the project are kept in a secure and retrievable manner for atleast two years after the end of the project crediting period.

Monitoring Data

The power exported to and power imported from the grid for each of the months during the monitoring period can be noted from the billing records of TNEB.

The project proponent maintains the record of the power exported to and power imported from the grid.

Calculation of Emission Reductions

Project activity adopted the procedures mentioned in the CDM methodology AMS-I.D (Version 13) to calculate project emissions, baseline emissions, leakage emissions and emission reductions. The procedures used for calculating these emissions are described below:

Emission Reduction:

$$ER_y = BE_y - PE_y - LE_y$$

Where

ER_y = Emission reductions in year y (tCO₂e/y)

BE_y = Baseline Emissions in year y (tCO₂e/y)

PE_y = Project Emissions in year y (tCO₂e/y)

LE_y = Leakage Emissions in year y (tCO₂e/y)

Baseline emissions:

The Baseline Emissions would be calculated using the formula

$$BE_y = EG_{BL,y} \times EF_{Grid,CM}$$

Where,

BE_y is Baseline Emissions in year y (tCO₂e/y)

$EG_{BL,y}$ is Energy Baseline in year y, kWh

$EF_{Grid,CM}$ is CO₂ Emission Factor in year y, t CO₂ / kWh

Project Emissions:

As per methodology, for wind power projects $PE_y = 0$ tonnes of CO₂

Where,

PE_y is the Project emissions in the year

Leakage

As per the methodology, no leakage is considered from the project activity. Hence, $LE_y = 0$ tonnes of CO₂

Where,

LE_y is the leakage emissions in the year y

Calculation of Emission Reductions

Presented below are the emission reduction calculations for the chosen VCS monitoring period from 1/04/2006 to 07/02/2010.

The details on delayed calibration for the current monitoring period are given below:

Location		Duration within the monitoring period where calibration has been delayed
Name	HT.Sc.No	
NSL 1	751	31/03/2006 to 10/10/2006

Location		
		10/10/2007 to 30/03/2008
		30/03/2009 to 30/05/2009
NSL 2	752	31/03/2006 to 03/03/2008
		20/08/2009 to 07/02/2010
NSL 3	754	31/03/2006 to 03/03/2008
		16/08/2009 to 07/02/2010
NSL 4	788	29/04/2006 to 03/03/2008
		03/03/2009 to 07/02/2010
NSL 5	753	31/03/2006 to 03/03/2008
		03/03/2009 to 07/02/2010
NSL 6	808	17/05/2006 to 03/03/2008
		03/03/2009 to 07/02/2010
NSL 7	728	17/05/2006 to 29/06/2007
		03/03/2009 to 07/02/2010
NSL 8	755	17/05/2006 to 03/03/2008
		29/07/2009 to 07/02/2010
NSL 9	690	26/03/2006 to 10/08/2007
		03/03/2009 to 07/02/2010

In this regard EB 52, Annex 60, “Guidelines for Assessing Compliance with the Calibration Frequency Requirements”, Version 01, Para 4 states that

If during verification of a certain monitoring period, the DOE identifies that the calibration has been delayed and the calibration has been implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available), the DOE may conclude its verification, provided the following conservative approach is adopted in the calculation of emission reductions:

- (a) Applying the maximum permissible error of the instrument to the measured values, if the results of the delayed calibration do not show any errors in the measuring equipment, or if the error is smaller than the maximum permissible error; or*
- (b) Applying the error identified in the delayed calibration test, if the error is beyond the maximum permissible error of the measuring equipment*

The error shall be applied for all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.

Therefore, in accordance with the guidance given above, in EB 52, Annex 60, Para 4 (a), the maximum possible error of 0.5% has been applied to the measured values for the period with delayed calibration. The adjusted measured values have been arrived at using the formulae given below:

For Electricity Export

$$MWh_{\text{Adjusted}} = MWh_{\text{Monitored}} (1 - (0.5/100))$$

For Electricity Import

$$MWh_{\text{Adjusted}} = MWh_{\text{Monitored}} (1 + (0.5/100))$$

The Emission reductions have been calculated based upon the adjusted measured values.

Calculation of Baseline Emissions:

Period	Location		Power exported, (MWh)	Combined Margin Emission Factor, EF Grid,CM,y (tCO ₂ e/MWh)	Baseline Emissions (tCO ₂ e)
	Name	HT.Sc.No			
01.04.2006 - 08.01.2007	NSL 1	751	4064.8	0.9269	3768
	NSL 2	752	4028.5	0.9269	3734
	NSL 3	754	4231.5	0.9269	3922
	NSL 4	788	4184.5	0.9269	3879
	NSL 5	753	3912.1	0.9269	3626
	NSL 6	808	4389.2	0.9269	4068
	NSL 7	728	4304.8	0.9269	3990
	NSL 8	755	4122.6	0.9269	3821
	NSL 9	690	4053.6	0.9269	3757
08.01.2007 - 09.01.2008	NSL 1	751	4311.74	0.9269	3997
	NSL 2	752	3965.26	0.9269	3675
	NSL 3	754	4370.09	0.9269	4051
	NSL 4	788	4403.26	0.9269	4081
	NSL 5	753	4231.53	0.9269	3922
	NSL 6	808	4415.00	0.9269	4092
	NSL 7	728	4548.76	0.9269	4216
	NSL 8	755	3755.69	0.9269	3481
	NSL 9	690	4299.08	0.9269	3985
09.01.2008 - 07.01.2009	NSL 1	751	4369.58	0.9269	4050
	NSL 2	752	3968.84	0.9269	3679
	NSL 3	754	3871.90	0.9269	3589
	NSL 4	788	4193.91	0.9269	3887
	NSL 5	753	3896.16	0.9269	3611
	NSL 6	808	4492.62	0.9269	4164
	NSL 7	728	4057.38	0.9269	3761
	NSL 8	755	4035.68	0.9269	3741
	NSL 9	690	4141.46	0.9269	3839
07.01.2009 - 07.01.2010	NSL 1	751	4792.73	0.9269	4442
	NSL 2	752	4593.40	0.9269	4258
	NSL 3	754	4616.30	0.9269	4279
	NSL 4	788	4666.63	0.9269	4325
	NSL 5	753	4611.51	0.9269	4274
	NSL 6	808	5088.49	0.9269	4717
	NSL 7	728	4818.21	0.9269	4466
	NSL 8	755	4574.70	0.9269	4240
	NSL 9	690	4577.32	0.9269	4243
07.01.2010 - 07.02.2010	NSL 1	751	113	0.9269	105
	NSL 2	752	101	0.9269	93

	Location				
	NSL 3	754	107	0.9269	99
	NSL 4	788	110	0.9269	102
	NSL 5	753	116	0.9269	107
	NSL 6	808	137	0.9269	127
	NSL 7	728	103	0.9269	95
	NSL 8	755	96	0.9269	89
	NSL 9	690	85	0.9269	78
Total			155926		144528

Calculation of Emission Reductions:

Period	Location		Baseline Emissions (tCO ₂ e)	Project Emissions, tCO ₂	Leakage Emissions, tCO ₂	Emission Reductions, tCO ₂
	Name	HT.Sc.No				
01.04.2006 - 08.01.2007	NSL 1	751	3768	0	0	3768
	NSL 2	752	3734	0	0	3734
	NSL 3	754	3922	0	0	3922
	NSL 4	788	3879	0	0	3879
	NSL 5	753	3626	0	0	3626
	NSL 6	808	4068	0	0	4068
	NSL 7	728	3990	0	0	3990
	NSL 8	755	3821	0	0	3821
	NSL 9	690	3757	0	0	3757
TOTAL						34566
08.01.2007 - 09.01.2008	NSL 1	751	3997	0	0	3997
	NSL 2	752	3675	0	0	3675
	NSL 3	754	4051	0	0	4051
	NSL 4	788	4081	0	0	4081
	NSL 5	753	3922	0	0	3922
	NSL 6	808	4092	0	0	4092
	NSL 7	728	4216	0	0	4216
	NSL 8	755	3481	0	0	3481
	NSL 9	690	3985	0	0	3985
TOTAL						35501
09.01.2008 - 07.01.2009	NSL 1	751	4050	0	0	4050
	NSL 2	752	3679	0	0	3679
	NSL 3	754	3589	0	0	3589
	NSL 4	788	3887	0	0	3887
	NSL 5	753	3611	0	0	3611
	NSL 6	808	4164	0	0	4164
	NSL 7	728	3761	0	0	3761
	NSL 8	755	3741	0	0	3741
	NSL 9	690	3839	0	0	3839
TOTAL						34321
07.01.2009 - 07.01.2010	NSL 1	751	4442	0	0	4442
	NSL 2	752	4258	0	0	4258

	Location					
	NSL 3	754	4279	0	0	4279
	NSL 4	788	4325	0	0	4325
	NSL 5	753	4274	0	0	4274
	NSL 6	808	4717	0	0	4717
	NSL 7	728	4466	0	0	4466
	NSL 8	755	4240	0	0	4240
	NSL 9	690	4243	0	0	4243
TOTAL						39244
07.01.2010 - 07.02.2010	NSL 1	751	105	0	0	105
	NSL 2	752	93	0	0	93
	NSL 3	754	99	0	0	99
	NSL 4	788	102	0	0	102
	NSL 5	753	107	0	0	107
	NSL 6	808	127	0	0	127
	NSL 7	728	95	0	0	95
	NSL 8	755	89	0	0	89
	NSL 9	690	78	0	0	78
TOTAL				0	0	896
Total			144528			144528

Given below are the details on estimated emission reductions and actual emission reductions for the monitoring period:

Year	01.04.2006 - 08.01.2007	08.01.2007 - 09.01.2008	09.01.2008 -07.01.2009	07.01.2009 -07.01.2010	07.01.2010 – 07.02.2010
<i>Estimated Emission reduction as the registered VCS PD, tonnes of CO₂e</i>	29321				
<i>Actual emission reductions in the Monitoring period, tonnes of CO₂e</i>	34566	35501	34321	39244	896
<i>Difference in Emission Reduction, tonnes of CO₂e</i>	5245	6180	5000	9923	

As per the registered VCS PD, the annual emission reductions expected from the project are 29,321 tonnes of CO₂e. The major reasons for the difference between the estimated emission reductions and the actual emission reductions achieved during the current monitoring period is due to the variation in the PLF of the project activity.

Annexure 1: Details of Energy meters

Sl. No.	WFHTSC No.	Energy Meter - Sl.No	Make	Type	Accuracy Class	Meter Released Date
1	751	04691231	Elster	ALPHA JL	0.5	10.10.2006
	751	04862782	Elster	ALPHA JL	0.5	30.05.2009
	751	KAB10100	Secure	E3V055	0.5	
2	752	04681457	Elster	ALPHA JL	0.5	20.08.2008
	752	04954987	Elster	Alpha D+	0.5	
3	754	04691230	Elster	ALPHA JL	0.5	16.08.2008
	754	04954988	Elster	Alpha D+	0.5	
4	788	04681456	Elster	ALPHA JL	0.5	06.05.2010
	788	TNB 03828	Secure	E3V055	0.5	
5	753	04691234	Elster	ALPHA JL	0.5	
6	808	04681455	Elster	ALPHA JL	0.5	
7	728	04681428	Elster	ALPHA JL	0.5	29.06.2007
	728	KAB05700	Secure	E3V055	0.5	
8	755	04681458	Elster	ALPHA JL	0.5	29.07.2008
	755	04901444	Elster	Alpha D+	0.5	
9	690	04691232	Elster	ALPHA JL	0.5	10.08.2007
	690	04862925	Elster	Alpha D+	0.5	

Calibration of energy meters

Sl. No.	WFHTSC No.	Energy Meter - S.No	Make	Type	Date of Calibration	Calibrating agency
1	751	046862782	Elster	ALPHA JL	3/03/2008	TNEB
		KAB 10100	Secure	E3V055	27/10/2010	TNEB
2	752	04681457	Elster	ALPHA JL	03/03/2008	TNEB
		04954987	Elster	ALPHA D+	27/10/2010	TNEB
3	754	04691230	Elster	ALPHA JL	03/03/2008	TNEB
		04954988	Elster	ALPHA D+	27/10/2010	TNEB
4	788	04681456	Elster	ALPHA JL	03/03/2008	TNEB
		T NB 03828	Secure	E3V055	27/10/2010	TNEB
5	753	04691234	Elster	ALPHA JL	03/03/2008	TNEB
		04691234	Elster	ALPHA JL	27/10/2010	TNEB
6	808	04681455	Elster	ALPHA JL	03/03/2008	TNEB
		04681455	Elster	ALPHA JL	27/10/2010	TNEB
7	728	KAB05700	Secure	E3V055	03/03/2008	TNEB
		KAB05700	Secure	E3V055	27/10/2010	TNEB
8	755	04681458	Elster	ALPHA JL	03/03/2008	TNEB
		04901444	Elster	ALPHA JL	27/10/2010	TNEB
9	690	04862925	Elster	Alpha D+	03/03/2008	TNEB
		04862925	Elster	Alpha D+	27/10/2010	TNEB

Annexure 2: Power exported and import data

Power exported and power imported by WTGs of NSL:

Period	Location	HT.Sc.No	TNEB Statements					Corrected Net Export
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	
April 2006	NSL 1	751	97080	96594.6	400	402	96680	96192.6
	NSL 2	752	101460	100952.7	400	402	101060	100550.7
	NSL 3	754	54860	54585.7	260	261.3	54600	54324.4
	NSL 4	788	69080	69080	240	240	68840	68840
	NSL 5	753	66940	66605.3	300	301.5	66640	66303.8
	NSL 6	808	69060	69060	300	300	68760	68760
	NSL 7	728	64780	64780	300	300	64480	64480
	NSL 8	755	56100	56100	260	260	55840	55840
	NSL 9	690	77700	77700	400	400	77300	77300
May 2006	NSL 1	751	349540	347792.3	1460	1467.3	348080	346325
	NSI 2	752	375040	373164.8	1380	1386.9	373660	371777.9
	NSL 3	754	385968	384038.16	1776	1784.88	384192	382253.28
	NSI 4	788	383220	381303.9	1520	1527.6	381700	379776.3
	NSL 5	753	383920	382000.4	1460	1467.3	382460	380533.1
	NSI 6	808	400980	400980	1680	1680	399300	399300
	NSL 7	728	389680	389680	1660	1660	388020	388020
	NSL 8	755	394680	394680	1704	1704	392976	392976
	NSL 9	690	359976	359976	1488	1488	358488	358488
June 2006	NSL 1	751	725360	721733.2	220	221.1	725140	721512.1
	NSL 2	752	701640	698131.8	240	241.2	701400	697890.6

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 3	754	664824	661499.88	264	265.32	664560	661234.56
	NSL 4	788	689580	686132.1	180	180.9	689400	685951.2
	NSL 5	753	604040	601019.8	500	502.5	603540	600517.3
	NSL 6	808	701980	698470.1	300	301.5	701680	698168.6
	NSL 7	728	729580	725932.1	140	140.7	729440	725791.4
	NSI 8	755	660600	657297	216	217.08	660384	657079.92
	NSL 9	690	702144	698633.28	216	217.08	701928	698416.2
July 2006	NSL 1	751	672060	668699.7	320	321.6	671740	668378.1
	NSI 2	752	623740	620621.3	480	482.4	623260	620138.9
	NSL 3	754	811368	807311.16	216	217.08	811152	807094.08
	NSL 4	788	772960	769095.2	340	341.7	772620	768753.5
	NSL 5	753	773240	769373.8	220	221.1	773020	769152.7
	NSL 6	808	824460	820337.7	280	281.4	824180	820056.3
	NSL 7	728	848400	844158	140	140.7	848260	844017.3
	NSL 8	755	788256	784314.72	288	289.44	787968	784025.28
	NSL 9	690	681240	677833.8	192	192.96	681048	677640.84
August 2006	NSI 1	751	813380	809313.1	180	180.9	813200	809132.2
	NSL 2	752	793900	789930.5	120	120.6	793780	789809.9
	NSL 3	754	799344	795347.28	96	96.48	799248	795250.8
	NSL 4	788	803040	799024.8	60	60.3	802980	798964.5
	NSL 5	753	695220	691743.9	280	281.4	694940	691462.5
	NSI 6	808	824280	820158.6	120	120.6	824160	820038
	NSL 7	728	788120	784179.4	100	100.5	788020	784078.9

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSI 8	755	789888	785938.56	96	96.48	789792	785842.08
	NSL 9	690	822768	818654.16	120	120.6	822648	818533.56
September 2006	NSL 1	751	609700	606651.5	560	562.8	609140	606088.7
	NSL 2	752	611880	608820.6	420	422.1	611460	608398.5
	NSL 3	754	621048	617942.76	528	530.64	620520	617412.12
	NSL 4	788	603320	600303.4	380	381.9	602940	599921.5
	NSL 5	753	560200	557399	860	864.3	559340	556534.7
	NSL 6	808	637700	634511.5	520	522.6	637180	633988.9
	NSL 7	728	596940	593955.3	460	462.3	596480	593493
	NSL 8	755	586512	583579.44	576	578.88	585936	583000.56
	NSL 9	690	603120	600104.4	528	530.64	602592	599573.76
October 2006	NSL 1	751	520760	518156.2	800	804	519960	517352.2
	NSL 2	752	598420	595427.9	420	422.1	598000	595005.8
	NSL 3	754	610872	607817.64	624	627.12	610248	607190.52
	NSL 4	788	579160	576264.2	400	402	578760	575862.2
	NSL 5	753	543680	540961.6	340	341.7	543340	540619.9
	NSL 6	808	610520	607467.4	580	582.9	609940	606884.5
	NSL 7	728	570640	567786.8	400	402	570240	567384.8
	NSL 8	755	553224	550457.88	600	603	552624	549854.88
	NSL 9	690	600168	597167.16	432	434.16	599736	596733
November 2006	NSL 1	751	35240	35063.8	820	824.1	34420	34239.7
	NSL 1	751	37140	36954.3	3500	3517.5	33640	33436.8

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 2	752	68240	67898.8	4260	4281.3	63980	63617.5
	NSL 3	754	88128	87687.36	4680	4703.4	83448	82983.96
	NSL 4	788	107940	107400.3	3920	3939.6	104020	103460.7
	NSL 5	753	93500	93032.5	4400	4422	89100	88610.5
	NSL 6	808	87620	87181.9	4400	4422	83220	82759.9
	NSL 7	728	117740	117151.3	4100	4120.5	113640	113030.8
	NSL 8	755	106368	105836.16	5136	5161.68	101232	100674.48
	NSL 9	690	67008	66672.96	4656	4679.28	62352	61993.68
December 2006	NSL 1	751	99000	99000	2080	2080	96920	96920
	NSL 2	752	78540	78147.3	2620	2633.1	75920	75514.2
	NSL 3	754	90816	90361.92	2976	2990.88	87840	87371.04
	NSL 4	788	81380	80973.1	2680	2693.4	78700	78279.7
	NSL 5	753	87740	87301.3	2640	2653.2	85100	84648.1
	NSL 6	808	106100	105569.5	2320	2331.6	103780	103237.9
	NSL 7	728	92220	91758.9	2320	2331.6	89900	89427.3
	NSL 8	755	89880	89430.6	3240	3256.2	86640	86174.4
	NSL 9	690	70008	69657.96	2784	2797.92	67224	66860.04
January 2007	NSL 1	751	137100	137100	1880	1880	135220	135220
	NSL 2	752	108960	108415.2	2620	2633.1	106340	105782.1
	NSL 3	754	139752	139053.24	2616	2629.08	137136	136424.16
	NSL 4	788	127540	126902.3	2160	2170.8	125380	124731.5
	NSL 5	753	136400	135718	2040	2050.2	134360	133667.8
	NSL 6	808	158660	157866.7	1880	1889.4	156780	155977.3

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 7	728	137680	136991.6	1940	1949.7	135740	135041.9
	NSL 8	755	130344	129692.28	2544	2556.72	127800	127135.56
	NSL 9	690	101160	100654.2	2544	2556.72	98616	98097.48
February 2007	NSL 1	751	135060	134384.7	2240	2251.2	132820	132133.5
	NSL 2	752	118300	117708.5	2080	2090.4	116220	115618.1
	NSL 3	754	120720	120116.4	2592	2604.96	118128	117511.44
	NSL 4	788	123080	122464.6	1900	1909.5	121180	120555.1
	NSL 5	753	125940	125310.3	1780	1788.9	124160	123521.4
	NSL 6	808	146160	145429.2	1880	1889.4	144280	143539.8
	NSL 7	728	136240	135558.8	1860	1869.3	134380	133689.5
	NSL 8	755	123432	122814.84	2568	2580.84	120864	120234
	NSL 9	690	114216	113644.92	2016	2026.08	112200	111618.84
March 2007	NSL 1	751	137340	137340	2420	2420	134920	134920
	NSL 2	752	130760	130106.2	1960	1969.8	128800	128136.4
	NSL 3	754	128784	128140.08	2616	2629.08	126168	125511
	NSL 4	788	133820	133150.9	2220	2231.1	131600	130919.8
	NSL 5	753	132000	131340	2200	2211	129800	129129
	NSL 6	808	136840	136155.8	2400	2412	134440	133743.8
	NSL 7	728	131900	131240.5	2280	2291.4	129620	128949.1
	NSL 8	755	124368	123746.16	2760	2773.8	121608	120972.36
	NSL 9	690	120624	120020.88	2136	2146.68	118488	117874.2
April 2007	NSL 1	751	101100	101100	4160	4160	96940	96940

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 2	752	92260	91798.7	3560	3577.8	88700	88220.9
	NSL 3	754	87888	87448.56	4416	4438.08	83472	83010.48
	NSL 4	788	88580	88137.1	3800	3819	84780	84318.1
	NSL 5	753	90200	89749	3620	3638.1	86580	86110.9
	NSL 6	808	91560	91102.2	4060	4080.3	87500	87021.9
	NSL 7	728	94440	93967.8	3680	3698.4	90760	90269.4
	NSL 8	755	91152	90696.24	4536	4558.68	86616	86137.56
	NSL 9	690	82896	82481.52	3648	3666.24	79248	78815.28
May 2007	NSL 1	751	258560	258560	2820	2820	255740	255740
	NSL 2	752	255560	254282.2	2220	2231.1	253340	252051.1
	NSL 3	754	290376	288924.12	2616	2629.08	287760	286295.04
	NSL 4	788	290420	288967.9	2140	2150.7	288280	286817.2
	NSL 5	753	250520	249267.4	2400	2412	248120	246855.4
	NSL 6	808	296500	295017.5	2440	2452.2	294060	292565.3
	NSL 7	728	291460	290002.7	2300	2311.5	289160	287691.2
	NSL 8	755	82200	81789	4152	4172.76	78048	77616.24
	NSL 9	690	251424	250166.88	2232	2243.16	249192	247923.72
June 2007	NSL 1	751	646920	646920	660	660	646260	646260
	NSL 2	752	303280	301763.6	1680	1688.4	301600	300075.2
	NSL 3	754	678000	674610	456	458.28	677544	674151.72
	NSL 4	788	597300	594313.5	340	341.7	596960	593971.8
	NSL 5	753	652240	648978.8	320	321.6	651920	648657.2
	NSL 6	808	697940	694450.3	300	301.5	697640	694148.8

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 7	728	649300	646053.5	360	361.8	648940	645691.7
	NSL 8	755	229944	228794.28	2304	2315.52	227640	226478.76
	NSL 9	690	673560	670192.2	360	361.8	673200	669830.4
July 2007	NSL 1	751	727480	727480	220	220	727260	727260
	NSL 2	752	753560	749792.2	200	201	753360	749591.2
	NSL 3	754	741336	737629.32	960	964.8	740376	736664.52
	NSL 4	788	832740	828576.3	180	180.9	832560	828395.4
	NSL 5	753	792660	788696.7	400	402	792260	788294.7
	NSL 6	808	576100	573219.5	1440	1447.2	574660	571772.3
	NSL 7	728	440940	438735.3	200	201	440740	438534.3
	NSL 7	728	404220	402198.9	40	40.2	404180	402158.7
	NSI 8	755	828120	823979.4	384	385.92	827736	823593.48
	NSL 9	690	766080	762249.6	192	192.96	765888	762056.64
August 2007	NSL 1	751	721780	721780	180	180	721600	721600
	NSL 2	752	738920	735225.4	180	180.9	738740	735044.5
	NSL 3	754	744384	740662.08	120	120.6	744264	740541.48
	NSL 4	788	743820	740100.9	100	100.5	743720	740000.4
	NSL 5	753	724320	720698.4	140	140.7	724180	720557.7
	NSL 6	808	768060	764219.7	160	160.8	767900	764058.9
	NSL 7	728	765100	765100	140	140	764960	764960
	NSL 8	755	726384	722752.08	192	192.96	726192	722559.12
	NSL 9	690	742464	738751.68	120	120.6	742344	738631.08

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
September 2007	NSL 1	751	712960	712960	100	100	712860	712860
	NSL 2	752	706020	702489.9	160	160.8	705860	702329.1
	NSL 3	754	723168	719552.16	216	217.08	722952	719335.08
	NSL 4	788	730300	726648.5	100	100.5	730200	726548
	NSL 5	753	691340	687883.3	260	261.3	691080	687622
	NSL 6	808	757480	753692.6	120	120.6	757360	753572
	NSL 7	728	754240	754240	140	140	754100	754100
	NSL 8	755	728568	724925.16	168	168.84	728400	724756.32
	NSL 9	690	9672	9623.64	0	0	9672	9623.64
	NSL 9	690	682512	679099.44	192	192.96	682320	678906.48
October 2007	NSL 1	751	647340	647340	380	380	646960	646960
	NSL 2	752	640820	637615.9	460	462.3	640360	637153.6
	NSL 3	754	632904	629739.48	624	627.12	632280	629112.36
	NSL 4	788	640640	637436.8	360	361.8	640280	637075
	NSL 5	753	582740	579826.3	580	582.9	582160	579243.4
	NSL 6	808	674600	671227	380	381.9	674220	670845.1
	NSL 7	728	656600	656600	440	440	656160	656160
	NSL 8	755	617352	614265.24	480	482.4	616872	613782.84
	NSL 9	690	639096	639096	624	624	638472	638472
November 2007	NSL 1	751	76000	75620	3260	3276.3	72740	72343.7
	NSL 2	752	128140	127499.3	3260	3276.3	124880	124223
	NSL 3	754	108504	107961.48	4392	4413.96	104112	103547.52
	NSL 4	788	112520	111957.4	3120	3135.6	109400	108821.8

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 5	753	66260	65928.7	3880	3899.4	62380	62029.3
	NSL 6	808	117300	116713.5	3280	3296.4	114020	113417.1
	NSL 7	728	104680	104680	3860	3860	100820	100820
	NSL 8	755	103200	102684	4392	4413.96	98808	98270.04
	NSL 9	690	120120	120120	3696	3696	116424	116424
December 2007	NSL 1	751	52760	52496.2	1340	1346.7	51420	51149.5
	NSL 2	752	55420	55142.9	2760	2773.8	52660	52369.1
	NSL 3	754	55272	54995.64	4416	4438.08	50856	50557.56
	NSL 4	788	45260	45033.7	2820	2834.1	42440	42199.6
	NSL 5	753	57980	57690.1	2680	2693.4	55300	54996.7
	NSL 6	808	63460	63142.7	2620	2633.1	60840	60509.6
	NSL 7	728	50880	50880	3540	3540	47340	47340
	NSL 8	755	50736	50482.32	3072	3087.36	47664	47394.96
	NSL 9	690	52704	52704	2808	2808	49896	49896
January 2008	NSL 1	751	116060	115479.7	1900	1909.5	114160	113570.2
	NSL 2	752	83500	83082.5	2620	2633.1	80880	80449.4
	NSL 3	754	107256	106719.72	2856	2870.28	104400	103849.44
	NSL 4	788	106580	106047.1	2400	2412	104180	103635.1
	NSL 5	753	107220	106683.9	2160	2170.8	105060	104513.1
	NSL 6	808	132600	131937	2120	2130.6	130480	129806.4
	NSL 7	728	101380	101380	2980	2980	98400	98400
	NSL 8	755	97272	96785.64	2880	2894.4	94392	93891.24
	NSL 9	690	81984	81984	2976	2976	79008	79008

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
February 2008	NSL 1	751	96380	95898.1	2940	2954.7	93440	92943.4
	NSL 2	752	84760	84336.2	3060	3075.3	81700	81260.9
	NSL 3	754	74712	74338.44	3744	3762.72	70968	70575.72
	NSL 4	788	76720	76336.4	2740	2753.7	73980	73582.7
	NSL 5	753	79960	79560.2	3100	3115.5	76860	76444.7
	NSL 6	808	88260	87818.7	3480	3497.4	84780	84321.3
	NSL 7	728	82120	82120	3380	3380	78740	78740
	NSL 8	755	71352	70995.24	3792	3810.96	67560	67184.28
	NSL 9	690	74784	74784	3336	3336	71448	71448
March 2008	NSL 1	751	90760	90306.2	2940	2954.7	87820	87351.5
	NSL 2	752	72800	72436	3000	3015	69800	69421
	NSL 3	754	79488	79090.56	3744	3762.72	75744	75327.84
	NSL 4	788	76060	75679.7	3000	3015	73060	72664.7
	NSL 5	753	78280	77888.6	3060	3075.3	75220	74813.3
	NSL 6	808	94320	93848.4	2360	2371.8	91960	91476.6
	NSL 7	728	77040	77040	3860	3860	73180	73180
	NSL 8	755	67392	67055.04	4176	4196.88	63216	62858.16
	NSL 9	690	70728	70728	3168	3168	67560	67560
April 2008	NSL 1	751	132320	131658.4	3380	3396.9	128940	128261.5
	NSL 2	752	101780	101780	3220	3220	98560	98560
	NSL 3	754	116496	116496	3912	3912	112584	112584
	NSL 4	788	120600	120600	3280	3280	117320	117320

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 5	753	118820	118820	3320	3320	115500	115500
	NSL 6	808	129200	129200	3500	3500	125700	125700
	NSL 7	728	122320	122320	3700	3700	118620	118620
	NSL 8	755	117456	117456	3984	3984	113472	113472
	NSL 9	690	101688	101688	3048	3048	98640	98640
May 2008	NSL 1	751	411800	411800	1980	1980	409820	409820
	NSL 2	752	319180	319180	1960	1960	317220	317220
	NSL 3	754	393288	393288	1944	1944	391344	391344
	NSL 4	788	413000	413000	1500	1500	411500	411500
	NSL 5	753	312620	312620	1900	1900	310720	310720
	NSL 6	808	441840	441840	1800	1800	440040	440040
	NSL 7	728	430380	430380	1960	1960	428420	428420
	NSL 8	755	410208	410208	2040	2040	408168	408168
	NSL 9	690	418128	418128	1656	1656	416472	416472
June 2008	NSL 1	751	673980	673980	480	480	673500	673500
	NSL 2	752	639420	639420	420	420	639000	639000
	NSL 3	754	389784	389784	2208	2208	387576	387576
	NSL 4	788	621040	621040	460	460	620580	620580
	NSL 5	753	538600	538600	880	880	537720	537720
	NSL 6	808	673700	673700	440	440	673260	673260
	NSL 7	728	401840	401840	1560	1560	400280	400280
	NSL 8	755	621384	621384	624	624	620760	620760
	NSL 9	690	634536	634536	504	504	634032	634032

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
July 2008	NSL 1	751	768500	768500	40	40	768460	768460
	NSL 2	752	719380	719380	80	80	719300	719300
	NSL 3	754	747696	747696	48	48	747648	747648
	NSL 4	788	757160	757160	40	40	757120	757120
	NSL 5	753	685180	685180	280	280	684900	684900
	NSL 6	808	785180	785180	120	120	785060	785060
	NSL 7	728	766480	766480	60	60	766420	766420
	NSL 8	755	721176	721176	168	168	721008	721008
	NSL 9	690	741192	741192	48	48	741144	741144
August 2008	NSL 1	751	810960	810960	100	100	810860	810860
	NSL 2	752	754040	754040	180	180	753860	753860
	NSL 3	754	815520	815520	96	96	815424	815424
	NSL 4	788	830280	830280	80	80	830200	830200
	NSL 5	753	802460	802460	120	120	802340	802340
	NSL 6	808	874560	874560	100	100	874460	874460
	NSL 7	728	855960	855960	100	100	855860	855860
	NSL 8	755	282504	282504	72	72	282432	282432
	NSL 8	755	510432	510432	24	24	510408	510408
	NSL 9	690	801744	801744	120	120	801624	801624
September 2008	NSL 1	751	647360	647360	800	800	646560	646560
	NSL 2	752	582320	582320	740	740	581580	581580

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 3	754	585744	585744	816	816	584928	584928
	NSL 4	788	593300	593300	840	840	592460	592460
	NSL 5	753	585900	585900	800	800	585100	585100
	NSL 6	808	621360	621360	960	960	620400	620400
	NSL 7	728	610280	610280	880	880	609400	609400
	NSL 8	755	580440	580440	1008	1008	579432	579432
	NSL 9	690	624768	624768	792	792	623976	623976
October 2008	NSL 1	751	533340	533340	340	340	533000	533000
	NSL 2	752	516460	516460	280	280	516180	516180
	NSL 3	754	513744	513744	480	480	513264	513264
	NSL 4	788	531100	531100	380	380	530720	530720
	NSL 5	753	520620	520620	400	400	520220	520220
	NSL 6	808	564340	564340	420	420	563920	563920
	NSL 7	728	539180	539180	440	440	538740	538740
	NSL 8	755	500928	500928	480	480	500448	500448
	NSL 9	690	519480	519480	336	336	519144	519144
November 2008	NSL 1	751	72540	72540	4160	4160	68380	68380
	NSL 2	752	75940	75940	3420	3420	72520	72520
	NSL 3	754	44592	44592	3216	3216	41376	41376
	NSL 4	788	65640	65640	3940	3940	61700	61700
	NSL 5	753	61140	61140	3820	3820	57320	57320
	NSL 6	808	69600	69600	3960	3960	65640	65640
	NSL 7	728	57680	57680	4160	4160	53520	53520

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 8	755	54408	54408	4536	4536	49872	49872
	NSL 9	690	64392	64392	3792	3792	60600	60600
December 2008	NSL 1	751	70780	70780	3800	3800	66980	66980
	NSL 2	752	60580	60580	3500	3500	57080	57080
	NSL 3	754	59784	59784	4248	4248	55536	55536
	NSL 4	788	61600	61600	4180	4180	57420	57420
	NSL 5	753	62760	62760	4060	4060	58700	58700
	NSL 6	808	74980	74980	4180	4180	70800	70800
	NSL 7	728	60480	60480	4420	4420	56060	56060
	NSL 8	755	55032	55032	4752	4752	50280	50280
	NSL 9	690	53904	53904	4152	4152	49752	49752
January 2009	NSL 1	751	86420	86420	2960	2960	83460	83460
	NSL 2	752	65900	65900	3040	3040	62860	62860
	NSL 3	754	78936	78936	2616	2616	76320	76320
	NSL 4	788	71540	71540	2900	2900	68640	68640
	NSL 5	753	75200	75200	2820	2820	72380	72380
	NSL 6	808	99960	99960	2420	2420	97540	97540
	NSL 7	728	81340	81340	3200	3200	78140	78140
	NSL 8	755	72816	72816	3456	3456	69360	69360
	NSL 9	690	60864	60864	3792	3792	57072	57072
February 2009	NSL 1	751	156120	156120	2040	2040	154080	154080
	NSL 2	752	122800	122800	1860	1860	120940	120940

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 3	754	138552	138552	2112	2112	136440	136440
	NSL 4	788	133700	133700	1880	1880	131820	131820
	NSL 5	753	139320	139320	2040	2040	137280	137280
	NSL 6	808	170600	170600	1900	1900	168700	168700
	NSL 7	728	141820	141820	2260	2260	139560	139560
	NSL 8	755	127992	127992	2472	2472	125520	125520
	NSL 9	690	113232	113232	2448	2448	110784	110784
							0	
March 2009	NSL 1	751	131780	131780	2360	2360	129420	129420
	NSL 2	752	117140	117140	1960	1960	115180	115180
	NSL 3	754	112632	112632	2424	2424	110208	110208
	NSL 4	788	114200	114200	2100	2100	112100	112100
	NSL 5	753	120960	120960	2180	2180	118780	118780
	NSL 6	808	133820	133820	2560	2560	131260	131260
	NSL 7	728	125260	125260	2380	2380	122880	122880
	NSL 8	755	117816	117816	2424	2424	115392	115392
	NSL 9	690	105936	105936	2280	2280	103656	103656
April 2009 (I)	NSL 1	751	44720	44496.4	2440	2452.2	42280	42044.2
	NSL 2	752	40100	40100	2180	2180	37920	37920
	NSL 3	754	35616	35616	2448	2448	33168	33168
	NSL 4	788	36240	36058.8	2280	2291.4	33960	33767.4
	NSL 5	753	37040	36854.8	2460	2472.3	34580	34382.5
	NSL 6	808	41180	40974.1	2480	2492.4	38700	38481.7

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 7	728	36960	36775.2	2500	2512.5	34460	34262.7
	NSL 8	755	36216	36216	2496	2496	33720	33720
	NSL 9	690	34488	34315.56	2232	2243.16	32256	32072.4
April 2009 (II)	NSL 1	751	24840	24715.8	1780	1788.9	23060	22926.9
	NSL 2	752	37980	37980	1820	1820	36160	36160
	NSL 3	754	28608	28608	2160	2160	26448	26448
	NSL 4	788	35040	34864.8	1920	1929.6	33120	32935.2
	NSL 5	753	30960	30805.2	2060	2070.3	28900	28734.9
	NSL 6	808	35660	35481.7	2160	2170.8	33500	33310.9
	NSL 7	728	32160	31999.2	2180	2190.9	29980	29808.3
	NSL 8	755	33048	33048	2208	2208	30840	30840
	NSL 9	690	28992	28847.04	2112	2122.56	26880	26724.48
May 2009	NSL 1	751	407980	405940.1	1380	1386.9	406600	404553.2
	NSL 2	752	410620	410620	1220	1220	409400	409400
	NSL 3	754	392208	392208	1440	1440	390768	390768
	NSL 4	788	366940	365105.3	1600	1608	365340	363497.3
	NSL 5	753	411820	409760.9	1440	1447.2	410380	408313.7
	NSL 6	808	408560	406517.2	1640	1648.2	406920	404869
	NSL 7	728	415260	413183.7	1600	1608	413660	411575.7
	NSL 8	755	392736	392736	1560	1560	391176	391176
	NSL 9	690	389112	387166.44	1464	1471.32	387648	385695.12
June 2009	NSL 1	751	187660	186721.7	140	140.7	187520	186581

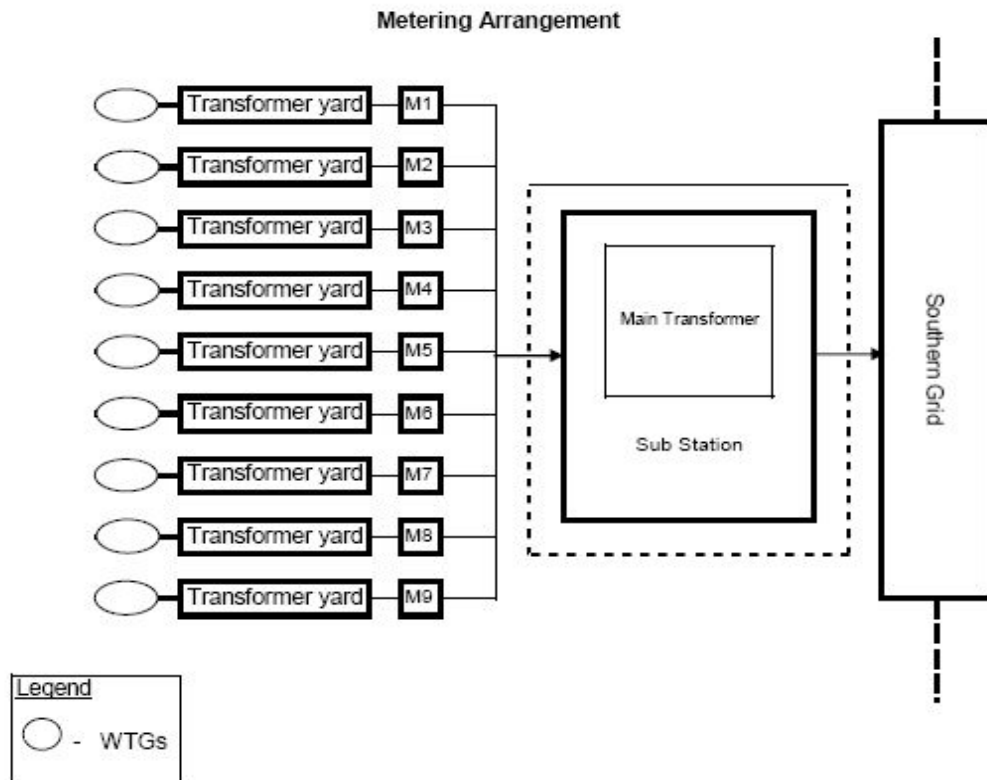
Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 1	751	566480	563647.6	140	140.7	566340	563506.9
	NSL 2	752	728540	728540	360	360	728180	728180
	NSL 3	754	711600	711600	264	264	711336	711336
	NSL 4	788	728380	724738.1	240	241.2	728140	724496.9
	NSL 5	753	726200	722569	240	241.2	725960	722327.8
	NSL 6	808	783760	779841.2	240	241.2	783520	779600
	NSL 7	728	742060	738349.7	260	261.3	741800	738088.4
	NSL 8	755	709104	709104	288	288	708816	708816
	NSL 9	690	724488	720865.56	336	337.68	724152	720527.88
July 2009	NSL 1	751	758640	758640	20	20	758620	758620
	NSL 2	752	697900	697900	180	180	697720	697720
	NSL 3	754	759096	759096	96	96	759000	759000
	NSL 4	788	766720	762886.4	40	40.2	766680	762846.2
	NSL 5	753	730040	726389.8	80	80.4	729960	726309.4
	NSL 6	808	831060	826904.7	20	20.1	831040	826884.6
	NSL 7	728	793620	789651.9	40	40.2	793580	789611.7
	NSL 8	755	757992	757992	72	72	757920	757920
	NSL 9	690	736896	733211.52	48	48.24	736848	733163.28
August 2009	NSL 1	751	904880	904880	80	80	904800	904800
	NSL 2	752	872800	872800	40	40	872760	872760
	NSL 3	754	848520	844277.4	72	72.36	848448	844205.04
	NSL 4	788	857580	853292.1	60	60.3	857520	853231.8
	NSL 5	753	835800	831621	60	60.3	835740	831560.7

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 6	808	921240	916633.8	40	40.2	921200	916593.6
	NSL 7	728	880060	875659.7	120	120.6	879940	875539.1
	NSL 8	755	839472	835274.64	72	72.36	839400	835202.28
	NSL 9	690	902568	898055.16	96	96.48	902472	897958.68
September 2009	NSL 1	751	709780	709780	500	500	709280	709280
	NSL 2	752	685300	681873.5	500	502.5	684800	681371
	NSL 3	754	741432	737724.84	600	603	740832	737121.84
	NSL 4	788	764000	760180	540	542.7	763460	759637.3
	NSL 5	753	738580	734887.1	620	623.1	737960	734264
	NSL 6	808	813440	809372.8	500	502.5	812940	808870.3
	NSL 7	728	788620	784676.9	620	623.1	788000	784053.8
	NSL 8	755	748200	744459	672	675.36	747528	743783.64
	NSL 9	690	694272	690800.64	576	578.88	693696	690221.76
October 2009	NSL 1	751	614120	614120	500	500	613620	613620
	NSL 2	752	645220	641993.9	220	221.1	645000	641772.8
	NSL 3	754	646176	642945.12	240	241.2	645936	642703.92
	NSL 4	788	658920	655625.4	240	241.2	658680	655384.2
	NSL 5	753	641420	638212.9	300	301.5	641120	637911.4
	NSL 6	808	715180	711604.1	240	241.2	714940	711362.9
	NSL 7	728	678420	675027.9	280	281.4	678140	674746.5
	NSL 8	755	631800	628641	360	361.8	631440	628279.2
	NSL 9	690	652272	649010.64	288	289.44	651984	648721.2

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
November 2009	NSL 1	751	134660	134660	3540	3540	131120	131120
	NSL 2	752	124040	123419.8	3380	3396.9	120660	120022.9
	NSL 3	754	102048	101537.76	3672	3690.36	98376	97847.4
	NSL 4	788	111540	110982.3	3560	3577.8	107980	107404.5
	NSL 5	753	107820	107280.9	3800	3819	104020	103461.9
	NSL 6	808	117140	116554.3	3540	3557.7	113600	112996.6
	NSL 7	728	101720	101211.4	4400	4422	97320	96789.4
	NSL 8	755	100272	99770.64	4320	4341.6	95952	95429.04
	NSL 9	690	109488	108940.56	4080	4100.4	105408	104840.16
December 2009	NSL 1	751	72360	72360	3760	3760	68600	68600
	NSL 2	752	59120	58824.4	3660	3678.3	55460	55146.1
	NSL 3	754	48672	48428.64	3936	3955.68	44736	44472.96
	NSL 4	788	51280	51023.6	3780	3798.9	47500	47224.7
	NSL 5	753	49400	49153	4140	4160.7	45260	44992.3
	NSL 6	808	54900	54625.5	3640	3658.2	51260	50967.3
	NSL 7	728	49020	48774.9	4500	4522.5	44520	44252.4
	NSL 8	755	43584	43366.08	4680	4703.4	38904	38662.68
	NSL 9	690	58008	57717.96	4032	4052.16	53976	53665.8
January 2010	NSL 1	751	106400	106400	2820	2820	103580	103580
	NSL 2	752	80080	79679.6	2840	2854.2	77240	76825.4
	NSL 3	754	85512	85084.44	2496	2508.48	83016	82575.96
	NSL 4	788	85180	84754.1	2460	2472.3	82720	82281.8
	NSL 5	753	86280	85848.6	2640	2653.2	83640	83195.4

Period	Location	HT.Sc.No	TNEB Statements					
Month	Name		Export	Corrected Export	Import	Corrected Import	Net	Corrected Net Export
	NSL 6	808	107380	106843.1	2240	2251.2	105140	104591.9
	NSL 7	728	80620	80216.9	3160	3175.8	77460	77041.1
	NSL 8	755	73464	73096.68	3120	3135.6	70344	69961.08
	NSL 9	690	72960	72595.2	3288	3304.44	69672	69290.76
February 2010	NSL 1	751	115580	115580	2520	2520	113060	113060
	NSL 2	752	103600	103082	2300	2311.5	101300	100770.5
	NSL 3	754	110112	109561.44	2472	2484.36	107640	107077.08
	NSL 4	788	113020	112454.9	2300	2311.5	110720	110143.4
	NSL 5	753	118700	118106.5	2420	2432.1	116280	115674.4
	NSL 6	808	140280	139578.6	2100	2110.5	138180	137468.1
	NSL 7	728	106460	105927.7	2980	2994.9	103480	102932.8
	NSL 8	755	99048	98552.76	2976	2990.88	96072	95561.88
	NSL 9	690	87840	87400.8	2880	2894.4	84960	84506.4
Total			157190436	156693385.3	765024	767374.22	156425412	155926011

Annexure 3: Metering Diagram



Annexure 4: Abbreviations

CDM	Clean Development Mechanism
VCS	Voluntary Carbon Standard
CEA	Central Electricity Authority
CO ₂	Carbon Dioxide
DPR	Detailed Project Report
GHG	Greenhouse Gas
TNEB	Tamil Nadu Electricity Board
kW	Kilowatt
KV	Kilovolts
LP	Low Pressure
MNES	Ministry of Non-Conventional Energy Sources
MU	Million Units
MW	Megawatt
PLF	Plant Load Factor
PPA	Power Purchase Agreement
QA	Quality Assurance
QC	Quality Control
RE	Renewable Energy
T&D	Transmission and Distribution
UNFCCC	United Nations Framework Convention on Climate Change