

**MONITORING REPORT FORM (CDM-MR)**  
**Version 01****CONTENTS**

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**MONITORING REPORT**  
**Version 3.0 and Date 04/01/2011**

**Title: BUNDLED WIND ENERGY PROJECTS (2004 POLICY) IN RAJASTHAN"**

**Project Reference No: 1166**

**Monitoring Period - FROM 30/10/2008 TO 30/11/2009 (including first and last day)**

**SECTION A. General description of the project activity**

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

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Bundled wind power project of 24.8 MW ("Project") is installed in the state of Rajasthan and provides reliable, renewable power to the Rajasthan state electricity grid. The Project leads to reduction of greenhouse gas emissions because it displaces electricity from fossil fuel based electricity generation plants. The Project harnesses renewable resources in the region, and thereby displacing non-renewable natural resources thereby ultimately leading to sustainable economic and environmental development. Enercon (India) Ltd ("Enercon" or "EIL") is the equipment supplier and the operations and maintenance contractor for the Project. The generated electricity is supplied to the utility (Discom) under a long-term power purchase agreement (PPA). The details of the sub-projects comprising the Project are as under:

• CEPCO Industries:	12 MW
• Ushdev International:	2.4 MW
• Brindavan Agro Industries:	1.6 MW
• Amrit Bottlers Ltd:	0.8 MW
• Deedee Enterprises:	0.8 MW
• JN Investment:	0.8 MW
• Metalfab Hightech Private Limited:	0.8 MW
• SE Investment:	0.8 MW
• Brindavan Bottlers Ltd.:	0.8 MW
• Delta Enterprises:	2.4 MW
• Sankalp International:	0.8 MW
• Malani Impex Inc.:	0.8 MW

The first machine under the project activity was commissioned on 25<sup>th</sup> Mar 2006 and the last machine under the project activity was commissioned on 13<sup>th</sup> May 2006. The expected operational lifetime of the project is for 20 years. The total emission reductions achieved under this monitoring period (30 October 2008 to 30 November 2009) is **33,322 tCO<sub>2</sub>**.

**A.2. Project Participants**

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Enercon (India) Limited  
Japan Carbon Finance

**A.3. Location of the project activity:**

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The Project is located at Kita and Bhu village, in Jaisalmer District of Rajasthan that forms part of the Northern regional electricity grid of India. The project area extends between latitude 26° 41' & 26° 46.5' North and longitude 70° 57.5' & 71° 4' East. The Project is connected to the RRVN 33/132/220 kV



substation at Amarsagar. The sites are located at a distance of 25 km from Jaisalmer by road. The nearest railway station is at Jaisalmer. Individual WEG location numbers and coordinates are detailed out in below table: -

Sr.No.	Unique Identification No.	Location No	Latitude			Longitude		
			Degree	Minute	Second	Degree	Minute	Second
1	Cepco-01	207	26	44	23.9	71	0	4.9
2	Cepco-02	208	26	44	18.7	71	0	13.4
3	Cepco-03	209	26	44	10.1	71	0	15.1
4	Cepco-04	210	26	44	1.6	71	0	15.4
5	Cepco-05	171	26	43	16.6	70	58	53.6
6	Cepco-06	172	26	43	28.0	70	58	47.8
7	Cepco-07	173	26	43	36.5	70	58	48.8
8	Cepco-08	175	26	43	35.9	70	59	8.1
9	Cepco-09	187	26	43	35.1	70	59	34.0
10	Cepco-10	166	26	42	33.7	70	59	4.1
11	Cepco-11	165	26	42	29.2	70	59	7.9
12	Cepco-12	164	26	42	24.6	70	59	11.8
13	Cepco-13	163	26	42	20.0	70	59	15.6
14	Cepco-14	162	26	42	15.4	70	59	19.5
15	Cepco-15	189	26	43	31.6	70	59	46.1
16	DE-01	202	26	44	8.3	70	59	55.9
17	DE-02	201	26	44	2.0	70	59	59.0
18	DE-03	200	26	43	56.5	71	0	2.5
19	UIL-01	206	26	44	28.4	70	59	41.2
20	UIL-02	205	26	44	22.1	70	59	44.3
21	UIL-03	204	26	44	16.2	70	59	47.4
22	BAIL-01	199	26	43	51.0	71	0	6.0
23	BAIL-02	198	26	43	46.4	71	0	9.8
24	ABL-01	216	26	45	41.9	70	59	34.6
25	BBL-01	217	26	45	46.2	70	59	31.7
26	DDE-01	203	26	44	12.9	70	59	52.0
27	JNI-01	214	26	45	13.7	70	59	19.8
28	MII-01	212	26	45	6.9	70	59	35.1
29	MHPL-01	188	26	43	40.4	70	59	29.5
30	SI-01	211	26	45	4.2	70	59	19.8
31	SE-01	291	26	45	38.0	70	59	38.7

#### A.4. Technical description of the project

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The Project involves 31-wind energy converters (WECs) of Enercon make (800 kW E-48) with internal electrical lines connecting the Project with local evacuation facility. The WECs generates 3-phase power at 400V, which is stepped up to 33 KV. The Project can operate in the frequency range of 47.5–51.5 Hz and in the voltage range of  $400\text{ V} \pm 12.5\%$ . The other salient features of the state-of-art-technology are:

- Gearless Construction - Rotor & Generator Mounted on same shaft eliminating the Gearbox.
- Variable speed function – has the speed range of 18 to 33 RPM thereby ensuring optimum efficiency at all times.
- Variable Pitch functions ensuring maximum energy capture.
- Near Unity Power Factor at all times.
- Minimum drawl (less than 1% of kWh generated) of Reactive Power from the grid.
- No voltage peaks at any time.
- Operating range of the WEC with voltage fluctuation of -20 to +20%.
- Less Wear & Tear since the system eliminates mechanical brake, which are not needed due to low speed generator, which runs at maximum speed of 33 rpm and uses Air Brakes.
- Three Independent Braking System.
- Generator achieving rated output at only 33 rpm.
- Incorporates lightning protection system, which includes blades.
- Starts Generation of power at wind speed of 3 m/s.

Enercon (India) Ltd has secured and facilitated the technology transfer for wind based renewable energy generation from Enercon GmbH, has established a manufacturing plant at Daman in India, where along with other components the "Synchronous Generators" using "Vacuum Impregnation" technology are manufactured.

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

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Baseline Methodology: *Consolidate monitoring methodology for grid-connected electricity generation from renewable sources, ACM0002, Version 6.*

Monitoring Methodology: *Consolidated monitoring methodology for grid-connected electricity generation from renewable sources, ACM0002, Version 6*

**A.6. Registration date of the project activity:**

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30/10/2008

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

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The length of the Crediting period of the project activity as per registered PDD is 10 years (Fixed) starting from 30/10/2008 to 29/10/2018. Joint Meter Reading is generated on 1st day of every month. Carving out generation details for 2 days i.e., from 30/10/2008 to 31/10/2008 is difficult. Hence, the project proponent wishes to forego the generation for those 2 days for the purpose of simplicity in the calculation of Emission reductions during this verification. Therefore the generation for the first monitoring period is considered from 01/11/2008 which is conservative.

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

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Contact Information of project proponents are given in the table below:

Organization:	Enercon (India) Limited
Street/P.O.Box:	A-9, Veera Industrial Estate, Veera Desai Road, Andheri West
Building:	Enercon Tower
City:	Mumbai
State/Region:	Maharashtra
Postfix/ZIP:	400 053
Country:	India
Telephone:	+91-22-2671 7176
FAX:	+91 22 66921177
E-Mail:	<a href="mailto:yogesh.mehra@enerconindia.net">yogesh.mehra@enerconindia.net</a>
URL:	<a href="http://www.enerconindia.net">www.enerconindia.net</a>
Represented by:	
Title:	Managing Director
Salutation:	Mr.
Last Name:	Mehra
Middle Name:	
First Name:	Yogesh
Department:	Corporate
Mobile:	+91-9820040301
Direct FAX:	+91 22 66921177
Direct tel:	+91-22-6692 4848 extn. 7111
Personal E-Mail:	<a href="mailto:yogesh.mehra@enerconindia.net">yogesh.mehra@enerconindia.net</a>

Organization:	Japan Carbon Finance, Ltd.
Street/P.O.Box:	6 <sup>th</sup> Floor, 1-3 Kundankita, 4-chrome
Building:	Chiyoda-ku
City:	Tokyo
State/Region:	
Postfix/ZIP:	102-0073
Country:	Japan
Telephone:	+81 3 5212 8870
FAX:	+81 3 5212 8886
E-Mail:	<a href="mailto:jcf@jcarbon.co.jp">jcf@jcarbon.co.jp</a>
URL:	<a href="http://www.japancarbon.co.jp/">http://www.japancarbon.co.jp/</a>
Represented by:	
Title:	Deal Manager
Salutation:	Mr.
Last Name:	Shozo
Middle Name:	
First Name:	Watanabe
Department:	Carbon Finance Department
Mobile:	
Direct FAX:	+81 3 5212 8886
Direct tel:	+81 3 5212 8878
Personal E-Mail:	<a href="mailto:s-watanabe@jcarbon.co.jp">s-watanabe@jcarbon.co.jp</a>

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

&gt;&gt;

The first machine under the project activity was commissioned on 25<sup>th</sup> March 2006 and last machine under the project activity was commissioned on 13<sup>th</sup> May 2006. The project activity consists of 31 machines (800 kW) of Enercon make E-48. The commissioning date for all the machines included in the project activity is given in the table below.

Serial No	Capacity	Unique Identification No.	Location No	Date of Commissioning
1	0.8	Cepco-01	207	29-Mar-06
2	0.8	Cepco-02	208	29-Mar-06
3	0.8	Cepco-03	209	29-Mar-06
4	0.8	Cepco-04	210	29-Mar-06
5	0.8	Cepco-05	171	29-Mar-06
6	0.8	Cepco-06	172	29-Mar-06
7	0.8	Cepco-07	173	31-Mar-06
8	0.8	Cepco-08	175	31-Mar-06
9	0.8	Cepco-09	187	30-Mar-06
10	0.8	Cepco-10	166	30-Mar-06
11	0.8	Cepco-11	165	30-Mar-06
12	0.8	Cepco-12	164	30-Mar-06
13	0.8	Cepco-13	163	13-May-06
14	0.8	Cepco-14	162	13-May-06
15	0.8	Cepco-15	189	13-May-06
16	0.8	DE-01	202	29-Mar-06
17	0.8	DE-02	201	29-Mar-06
18	0.8	DE-03	200	29-Mar-06
19	0.8	UIL-01	206	29-Mar-06
20	0.8	UIL-02	205	29-Mar-06
21	0.8	UIL-03	204	29-Mar-06
22	0.8	BAIL-01	199	29-Mar-06
23	0.8	BAIL-02	198	29-Mar-06
24	0.8	ABL-01	216	25-Mar-06
25	0.8	BBL-01	217	25-Mar-06
26	0.8	DDE-01	203	25-Mar-06
27	0.8	JNI-01	214	29-Mar-06
28	0.8	MII-01	212	29-Mar-06
29	0.8	MHPL-01	188	31-Mar-06
30	0.8	SI-01	211	29-Mar-06



31	0.8	SE-01	291	25-Mar-06
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Enercon operation and maintenance activities are ISO 9001:2000 certified and all the events are recorded in the log book available at the project site. Referring to the data available it can be inferred that there have not been any major special events for any of the machines that are included in the project activity. As a part of regular maintenance the machines are stopped for mechanical and electrical maintenance for 16 to 18 hours annually and for visual inspection for 6 to 7 hours quarterly.

#### **B.2. Revision of the monitoring plan**

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The revision for monitoring plan was approved by UNFCCC on 02/08/2010 (Link: <http://cdm.unfccc.int/Projects/DB/SGS-UKL1181723770.26/view>). The revision in monitoring plan was done to describe the allocation plan transparently.

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

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Not Applicable

#### **B.4. Notification or request of approval of changes**

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Not Applicable

### **SECTION C. Description of the monitoring system**

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Approved monitoring methodology ACM0002 / Version 06 Sectoral Scope: 1, “Consolidated monitoring methodology for zero-emissions grid-connected electricity generation from renewable sources”, by CDM - Meth Panel is proposed to be used to monitor the emission reductions.

The electricity supplied to the grid will be metered at the 33/132/220 kV level at the RRVPN substation at Amarsagar. Representatives of RRVPN/Jodhpur Discom and Enercon will jointly take the main reading and sign the meter reading on the first day of every month. Simultaneously, the joint meter reading at 33/132/220 kV level of the backup metering system at Temdarai substation will also be taken by representatives of RRVPN/Jodhpur Discom and Enercon.

The meter used are Trivector and the manufacturer is the Secure Meter. The meters are two-way meter and measure the electricity import and export and give the net electricity. In case the meters are found to operate outside the permissible limits, the meters will be either replaced immediately or calibrated. Error correction will be applied to the meter reading. Whenever a main meter goes defective, the consumption recorded by the backup meter will be referred. The details of the malfunctioning along with date and time and snaps shot parameters along with load survey will be retrieved from the main meter. The exact nature of the malfunctioning will be determined after analyzing the data so retrieved and the consumption recorded by the main meter will be assessed accordingly.

If main as well as back up metering system becomes defective, the assessment of energy consumption for the outage period will be done from the backup meters by the concerned parties as mutually agreed or at the level of Metering Committee set up under the Metering Code. The main and the backup metering systems will be sealed in presence of representatives of Enercon and RRVPN/Jodhpur Discom.



The main meter readings are apportioned based upon the LCS meter readings from the individual WTGs to compute net electricity supplied from individual WTGs. The LCS meter readings are archived electronically on continuous basis. Joint meter reading at the EB substation and at the pooling substation of Enercon is noted each month. Therefore cumulative LCS meter reading for each month is used for purpose of allocation of net electricity supplied to the grid from the project activity.

The LCS meters are do not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WEGs. In case there is any mismatch in the energy values recorded by the LCS meter and the energy values calculated by the inverting system; the machine will stop working and generate the error report. The operations and maintenance staff will calibrate the meter immediately and correction factor will be determined.

EG<sub>y</sub> for the project activity is derived as follows:-

The project activity is located in Bhu and is connected to Amarsagar substation. In addition to the project activity, the wind farms located at Temdarai, Sodabandhan, Korwan, Asloi and other wind turbines at Bhu are also connected to the Amarsagar substation. Electricity delivered by all these wind farms are metered at a common metering point. The common metering point comprises two main meters i.e. Main meter 1 and Main meter 2 that are installed at 132 kV metering point at the Amarsagar substation. Consequently, the main meter readings reflect the aggregate electricity supplied by all these wind farms, including the project activity. The net electricity supplied by individual wind turbines is determined by following a process of allocating the total electricity (recorded at the main meters M1 and M2) to the individual turbines in proportion of the electricity generation recorded by the LCS meters at the individual wind turbines. The procedure for allocation is detailed below:

$E_{JMR,Export}$  = Electricity exported, as recorded by the main meter at the substation

$E_{JMR,Import}$  = Electricity imported, as recorded by the main meter at the substation

$E_{Controller,Export}$  = Electricity exported by a WEG, as measured at the controller

$\sum E_{Controller,Export}$  = Electricity exported by all the WEGs connected to the main meter at the substation, measured at the controller of each WEG

$E_{WEG,Export}$  = Electricity exported by a WEG to the grid, calculated

$E_{WEG,Import}$  = Electricity imported by a WEG from the grid, calculated

Electricity exported by each WEG is apportioned on the basis of electricity exported recorded at the controller of each WEG and the electricity exported at the main meter and mentioned in the JMR. The export multiplication factor is calculated as follows-

$$\text{Export Multiplication factor} = \frac{E_{JMR,Export}}{\sum E_{Controller,Export}} \dots\dots\dots(1)$$

Thus the energy exported by a WEG to the grid is given by the equation-

$$E_{WEG,Export} = \text{Export Multiplication factor} \times E_{Controller,Export} \dots\dots\dots(2)$$



As the controller meter doesn't record import, the apportioning of energy imported by each WEG is also done on the basis of electricity exported recorded at the controller of each WEG and the electricity imported at the main meter and mentioned in the JMR. The import multiplication factor is calculated as follows-

$$\text{Import Multiplication factor} = \frac{E_{\text{JMR,import}}}{\sum E_{\text{Controller,Export}}} \dots\dots\dots(3)$$

Thus the energy imported by a WEG to the grid is given by the equation-

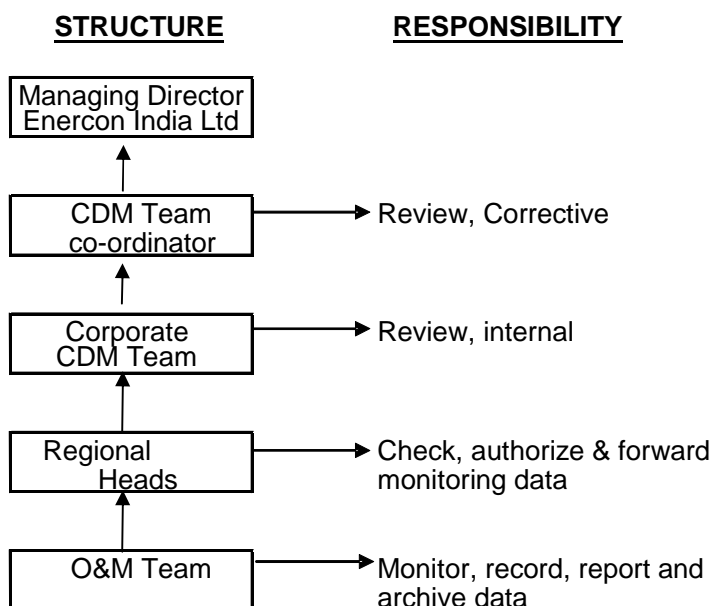
$$E_{\text{WEG,import}} = \text{Import Multiplication factor} \times E_{\text{Controller,Export}} \dots\dots\dots(4)$$

The net electricity exported by the WEGs of the project is given by the equation-

$$EG_y = \sum_{\text{Project}} E_{\text{WEG,Export}} - \sum_{\text{Project}} E_{\text{WEG,import}} \dots\dots\dots(5)$$

The summation is done on the WEGs belonging to the project activity.

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



### Training and maintenance:

Training on the machine is an essential pre-requisite, to ensure necessary safety of man and machine. Further, in order to maximize the output from the Wind Energy Converters (WECs), it is extremely essential, that the engineers and technicians understand the machines and keep them in good health. In order to ensure, that Enercon's service staff is deft at handling technical snags on top of the turbine, the necessity of ensuring that they are capable of climbing the tower with absolute ease and comfort has been established. The Enercon Training Academy provides need-based training to meet the training requirements of Enercon projects. The training is contemporary, which results in imparting focused



knowledge leading to value addition to the attitude and skills of all trainees. This ultimately leads to creativity in problem solving.

### Calibration Details

The metering equipments were inspected & calibrated by state utility. Meter details for the all the main and backup meters are as follows:-

Meter description	Serial No.	Make	Accuracy class	Metering point	Last dates of calibration	Latest date of calibration
Main meter (Line I)	TNU00946	Secure	0.2	Amarsagar Substation	15-Feb-2008, 29-Jan-2009, 30-Mar-2010	30-Mar-2010
Backup meter (Line I)	RJB00052	Secure	0.2	Temdarai Substation	15-Feb-2008, 30-Jan-2009, 31-Mar-2010	31-Mar-2010
Main meter (Line II)	TNU00945	Secure	0.2	Amarsagar Substation	15-Feb-2008, 29-Jan-2009, 30-Mar-2010	30-Mar-2010
Backup meter (Line II)	ABB00691 (In 2008 the meter was TNU00951)	Secure	0.2	Temdarai Substation	15-Feb-2008, 30-Jan-2009, 31-Mar-2010	31-Mar-2010

The backup meter (line-II) was changed on 15-Feb-2008 due to problem in display of the meter. The main meter is working within permissible limit of error in the monitoring period and hence meter reading from main meter at (Line II) is referred throughout the monitoring report. Therefore there is no reporting risk on account of change in backup meter (Line II).

**It can be noticed from the above table that calibration for all the meters were conducted on 15-Feb-2008 and next calibration was conducted on 29-Jan-2009. Each calibration is valid for the period of one year. The calibration of the meters that were calibrated on 29-Jan-2009 is valid until 28-Jan-2010. The monitoring period for the project activity is from 30/10/2008 to 30/11/2009. Hence the calibration frequency for the monitoring period is in line with the calibration frequency mentioned in the registered PDD.**

The main and the backup meters are calibrated once each year. The LCS meters are do not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WEGs. In case there is any mismatch in the energy values recorded by the LCS meter and the energy values calculated by the inverting system; the machine will stop working and generate the error report. Therefore there is no data uncertainty. The line diagrams showing all relevant monitoring points are appendix 1.

## SECTION D. Data and parameters

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

Data / Parameter:	$EF_{OM,y}$
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Data unit:	tCO <sub>2</sub> e/MWh						
Description:	Operating Margin Emission Factor of Northern Regional Electricity Grid						
Source of data used:	<p>“CO<sub>2</sub> Baseline Database for Indian Power Sector” version 1.1 published by the Central Electricity Authority, Ministry of Power, Government of India.</p> <p>The “CO<sub>2</sub> Baseline Database for Indian Power Sector” version 1.1 is available at <a href="http://www.cea.nic.in">www.cea.nic.in</a></p>						
Value(s) :	<table border="1"> <tr> <td>2002 – 03</td><td>0.9993</td></tr> <tr> <td>2003 – 04</td><td>0.9869</td></tr> <tr> <td>2004 – 05</td><td>0.9756</td></tr> </table>	2002 – 03	0.9993	2003 – 04	0.9869	2004 – 05	0.9756
2002 – 03	0.9993						
2003 – 04	0.9869						
2004 – 05	0.9756						
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions						
Additional comment:	None						

<b>Data / Parameter:</b>	<b><math>EF_{BM,y}</math></b>
Data unit:	tCO <sub>2</sub> e/MWh
Description:	Build Margin Emission Factor of Northern Regional Electricity Grid
Source of data used:	<p>“CO<sub>2</sub> Baseline Database for Indian Power Sector” version 1.1 published by the Central Electricity Authority, Ministry of Power, Government of India.</p> <p>The “CO<sub>2</sub> Baseline Database for Indian Power Sector” version 1.1 is available at <a href="http://www.cea.nic.in">www.cea.nic.in</a></p>
Value(s) :	0.5335
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Additional comment:	None

<b>Data / Parameter:</b>	<b><math>EF_{CM,y}</math></b>
Data unit:	tCO <sub>2</sub> e/MWh
Description:	Combined Margin Emission Factor of North East West North-east (NEWNE)
Source of data used:	<p>“CO<sub>2</sub> Baseline Database for Indian Power Sector” version 1.1 published by the Central Electricity Authority, Ministry of Power, Government of India.</p> <p>The “CO<sub>2</sub> Baseline Database for Indian Power Sector” version 1.1 is available at <a href="http://www.cea.nic.in">www.cea.nic.in</a></p>
Value(s) :	0.8739
Indicate what the data are	Baseline Emissions



used for (Baseline/ Project/ Leakage emission calculations)	
Additional comment:	None

D.2. Data and parameters monitored	
<b>Data / Parameter:</b>	<b>EG<sub>y</sub></b>
Data unit:	MWh (Mega-Watt hour)
Description:	Net electricity supplied to the grid by the Project
Measured /Calculated /Default:	Calculated by applying apportioning procedure better described in C.
Source of data:	Electricity supplied to the grid as per the tariff invoices raised on state utility (Discom).
Value(s) of monitored parameter:	38,132.51 MWh
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated as per formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Monthly: The apportioning is done as per the procedure described in section C.
Calculation method (if applicable):	$EG_y = \sum_{\text{Project}} E_{WEG, \text{Export}} - \sum_{\text{Project}} E_{WEG, \text{Import}}$ Refer section C for details and description of the above variables
QA/QC procedures applied:	QA/QC procedures will be as implemented by state utility (Discom) pursuant to the provisions of the power purchase agreement and the Metering Code of Rajasthan and there will be no additional QA/QC procedures. Refer Section C for an illustration of the provisions for QA/QC procedures.

<b>Data / Parameter:</b>	<b>E<sub>IMRExport</sub></b>
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity exported, as recorded by the main meter at the EB substation
Measured /Calculated /Default:	Measured: The Export reading is jointly noted from the main meter installed at the EB substation.
Source of data:	Export value from Joint meter reading taken at Substation in the presence of representatives of Enercon and state utility
Value(s) of monitored parameter:	Refer Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions



Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	<p>Line I Type- Trivector Meter Accuracy Class-0.2 Serial Number of Main Meter: TNU00946 Serial Number of Backup Meter: RJB00052</p> <p>Line II Type- Trivector Meter Accuracy Class-0.2 Serial Number of Main Meter: TNU00945 Serial Number of Backup Meter: ABB00691(In 2008 the meter was TNU00951)</p> <p>Frequency of Calibration- Annual</p> <p>Last date of Test- 30-Mar-2010 Validity of Test- 29-Mar-2011 (one year)</p>
Measuring/ Reading/ Recording frequency:	Monthly: The reading is jointly noted by the representatives of state utility and Enercon.
Calculation method (if applicable):	NA
QA/QC procedures applied:	The meters will be calibrated once each year by the state utility. Refer Section C for an illustration of the provisions for QA/QC procedures.

<b>Data / Parameter:</b>	<b>E<sub>MR</sub>Import</b>
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity imported, as recorded by the main meter at the EB substation
Measured /Calculated /Default:	Measured: The import reading is jointly noted from the main meter installed at the EB substation.
Source of data:	Import value from Joint meter reading taken at Substation in the presence of representatives of Enercon and state utility
Value(s) of monitored parameter:	Refer Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	<p>Line I Type- Trivector Meter Accuracy Class-0.2 Serial Number of Main Meter: TNU00946 Serial Number of Backup Meter: RJB00052</p> <p>Line II Type- Trivector Meter Accuracy Class-0.2 Serial Number of Main Meter: TNU00945 Serial Number of Backup Meter: ABB00691(In 2008 the meter was TNU00951)</p>



	Frequency of Calibration- Annual
	Last date of Test-30-Mar-2010 Validity of Test- 29-Mar-2011 (one year)
Measuring/ Reading/ Recording frequency:	Monthly: The reading is jointly noted by the representatives of state utility and Enercon.
Calculation method (if applicable):	NA
QA/QC procedures applied:	The meters will be calibrated once each year by the state utility. Refer Section C for an illustration of the provisions for QA/QC procedures.

<b>Data / Parameter:</b>	<b>E<del>Controller</del>, Export</b>
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity exported by a WEG, as measured at the controller (LCS)
Measured /Calculated /Default:	Measured: The value is recorded continuously by the online monitoring station. This value can also be checked from the electronic panel installed inside the WTG tower.
Source of data:	This reading is monitored continuously by the online monitoring station at the project site. This reading can also be seen in the electronic panel installed inside the WTG tower.
Value(s) of monitored parameter:	Refer to Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Meter Type: Refer Appendix 2 Accuracy Class: Refer Appendix 2 Serial Number: Refer Appendix 2  The LCS meters are do not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WEGs. In case there is any mismatch in the energy values recorded by the LCS meter and the energy values calculated by the inverting system; the machine will stop working and generate the error report. Therefore there is no data uncertainty.
Measuring/ Reading/ Recording frequency:	Monthly: The value is recorded continuously by the online monitoring station. This value can also be checked from the electronic panel installed inside the WTG tower.
Calculation method (if applicable):	NA
QA/QC procedures applied:	The LCS meters are do not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WEGs. In case there is any mismatch in the energy values recorded by the LCS meter and the energy values calculated by the inverting system; the machine will stop working and generate the error report. Therefore there is no data uncertainty.



<b>Data / Parameter:</b>	<b><math>E_{WEG,Export}</math></b>
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity exported by a WEG to the grid
Measured /Calculated /Default:	$E_{WEG,Export}$ denotes the electricity exported by a WEG to the grid. The value is calculated based on the formula mentioned in Section C
Source of data:	Calculated using formula mentioned in Section C
Value(s) of monitored parameter:	Refer to Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated using the formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Calculated using the formulas better described under section C.
Calculation method (if applicable):	$E_{WEG,Export}$ = Export Multiplication factor x $E_{Controller,Export}$ Refer to Section C for details and description of the above variables.
QA/QC procedures applied:	The value is calculated. Please refer Section C for QA/QC procedures.

<b>Data / Parameter:</b>	<b><math>E_{WEG,Import}</math></b>
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity imported by a WEG from the grid
Measured /Calculated /Default:	$E_{WEG,Import}$ denotes the electricity imported by a WEG from the grid. The value is calculated based on the formula mentioned in section C.
Source of data:	Calculated using formula mentioned in Section C.
Value(s) of monitored parameter:	Refer to Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated using the formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Monthly: The reading is jointly noted by the representatives of state utility and Enercon.
Calculation method (if applicable):	$E_{WEG,Import}$ = Import Multiplication factor x $E_{Controller,Export}$ Refer to Section C for details and description of the above variables.
QA/QC procedures applied:	The value is calculated. Please refer Section C for QA/QC procedures.

<b>Data / Parameter:</b>	<b><math>\sum_{Project} E_{WEG,Export}</math></b>
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Data unit:	MWh (Mega-Watt hour)
Description:	Summation of electricity exported to the grid by all the WEGs included in the project activity.
Measured /Calculated /Default:	$\sum_{\text{Project}} E_{\text{WEG, Export}}$ denotes summation of the electricity exported to the grid by a WEGs included in the project activity. The value is calculated based on the formula mentioned in section C.
Source of data:	Summation of data values of $E_{\text{WEG, Export}}$ for all the WEGs included in the project activity.
Value(s) of monitored parameter:	38,189.66 MWh
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated using the formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Monthly: Calculated using the formulas better described under section C.
Calculation method (if applicable):	$\sum_{\text{Project}} E_{\text{WEG, Export}}$ denotes summation of the electricity exported to the grid by a WEGs included in the project activity. Refer to Section C for details and description.
QA/QC procedures applied:	The value is calculated and can be cross checked from the invoices raised on the state utility.

<b>Data / Parameter:</b>	$\sum_{\text{Project}} E_{\text{WEG, Import}}$
Data unit:	MWh (Mega-Watt hour)
Description:	Summation of electricity imported from the grid by all the WEGs included in the project activity.
Measured /Calculated /Default:	$\sum_{\text{Project}} E_{\text{WEG, Import}}$ denotes the summation of electricity imported from the grid by a WEGs included in the project activity. The value is calculated based on the formula mentioned in section C
Source of data:	Summation of data values of $E_{\text{WEG, Import}}$ for all the WEGs included in the project activity.
Value(s) of monitored parameter:	57.15 MWh
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated using the formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Monthly: Calculated using the formulas better described under section





Recording frequency:	C.
Calculation method (if applicable):	$\sum_{\text{Project}} E_{\text{WEG, Import}}$ denotes the summation of electricity imported from the grid by a WEGs included in the project activity. Refer to Section C for details and description.
QA/QC procedures applied:	The value is calculated and can be cross checked from the invoices raised on the state utility.

## SECTION E. Emission reductions calculation

### E.1. Baseline emissions calculation

>>

“The baseline is the kWh produced by the renewable generating unit multiplied by an emission coefficient (measured in kg CO<sub>2</sub>e/kWh) calculated in a transparent and conservative manner as the weighted average emissions (in kg CO<sub>2</sub>e/kWh) as described in registered PDD.

$$BE_y = EG_y * EF_y$$

Where,

**BE** is baseline emissions in year y, tCO<sub>2</sub>e

**EG<sub>y</sub>** is the net electricity supplied to the grid in year y and is applied directly from JMR certified by state utility. This value can also be cross checked from the invoice.

**EF<sub>y</sub>** is the CO<sub>2</sub> emission factor of the grid (873.87 tCO<sub>2</sub>e/GWh fixed ex-ante). Refer Appendix 3 for detail.

Emission reduction calculation for the period 30<sup>th</sup> October 2008 to 30<sup>th</sup> November 2009:

$$\begin{aligned} \text{Emission Reductions (ER)} &= 38,132,509 \text{ (Kwh)} * 873.87 \text{ (tCO}_2\text{/Kwh)} / 10^6 \\ &= \mathbf{33,322 \text{ tCO}_2} \end{aligned}$$

### E.2. Project emissions calculation

>>

Since the project activity is a renewable energy project which generates electricity using wind power and hence does not result in project emissions.

### E.3. Leakage calculation

>>

No leakage is considered from the project activity as per approved methodology ACM0002.

### E.4. Emission reductions calculation / table

>>

The total emission reductions achieved during the monitoring period is **33,322 tCO<sub>2</sub>**.

Total baseline emissions: 33,322 tCO<sub>2</sub>

Total project emissions: Zero

Total leakage: Zero

$$\begin{aligned} \text{Total Emission reductions, ER} &= BE_y - PE_y \\ &= \mathbf{33,322 \text{ tCO}_2} \end{aligned}$$

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

&gt;&gt;

Item	Values applied in ex-ante calculation of the registered CDM-PDD	Actual values reached during the monitoring period
Emission reductions (tCO <sub>2</sub> e)	45,247 (13 months equivalent of annually 41,766 emission reductions estimated in the registered PDD)	33,322

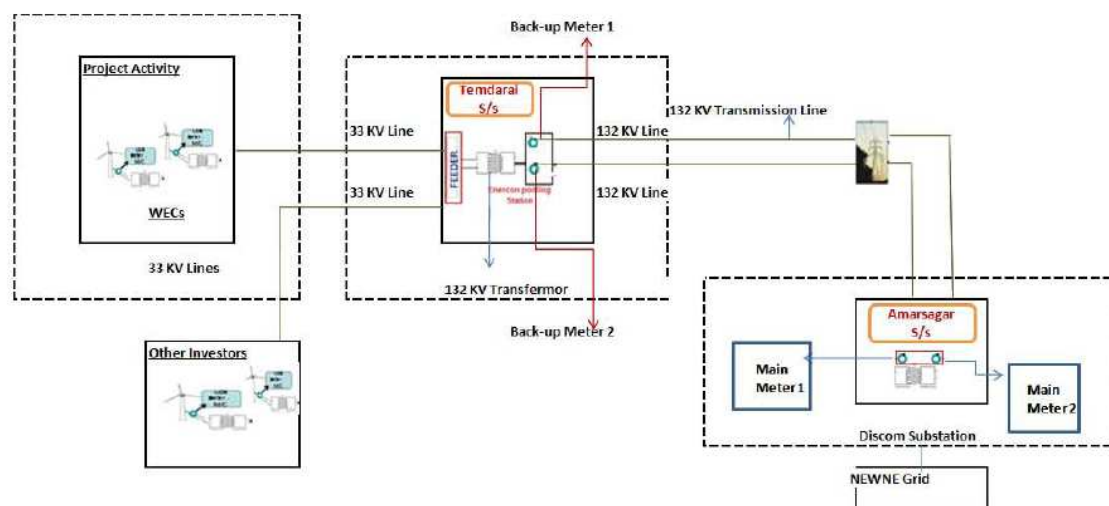
**E.6. Remarks on difference from estimated value in the PDD**

&gt;&gt;

There is change of 26.35% (downside) in the expected and annual emission reductions. The difference in the total CERs is due to low wind availability leading to low plant load factor.



## Appendix 1: Line Diagram Showing Relevant Metering Points



**Appendix 2: Controller Meter Details**

Serial No	Project Proponent	Unique Identification No.	Accuracy Class	Panel Meter Serial No	Make	Type
1	Cepco Industries Private Limited	Cepco-01	C-1	466706	NZR	IGZ 50 Hz
2		Cepco-02	C-1	466699	NZR	IGZ 50 Hz
3		Cepco-03	C-1	466657	NZR	IGZ 50 Hz
4		Cepco-04	C-1	466690	NZR	IGZ 50 Hz
5		Cepco-05	C-1	466694	NZR	IGZ 50 Hz
6		Cepco-06	C-1	466683	NZR	IGZ 50 Hz
7		Cepco-07	C-1	466382	NZR	IGZ 50 Hz
8		Cepco-08	C-1	466385	NZR	IGZ 50 Hz
9		Cepco-09	C-1	466303	NZR	IGZ 50 Hz
10		Cepco-10	C-1	466689	NZR	IGZ 50 Hz
11		Cepco-11	C-1	466398	NZR	IGZ 50 Hz
12		Cepco-12	C-1	466269	NZR	IGZ 50 Hz
13		Cepco-13	C-1	466659	NZR	IGZ 50 Hz
14		Cepco-14	C-1	466627	NZR	IGZ 50 Hz
15		Cepco-15	C-1	1166693	NZR	IGZ 50 Hz
16	Delta Enterprises	DE-01	C-1	466685	NZR	IGZ 50 Hz
17		DE-02	C-1	466390	NZR	IGZ 50 Hz
18		DE-03	C-1	466532	NZR	IGZ 50 Hz
19	Ushdev International Limited	UIL-01	C-1	466702	NZR	IGZ 50 Hz
20		UIL-02	C-1	466404	NZR	IGZ 50 Hz
21		UIL-03	C-1	466670	NZR	IGZ 50 Hz
22	Brindavan Agro Industries	BAIL-01	C-1	466478	NZR	IGZ 50 Hz



23	Limited	BAIL-02	C-1	466701	NZR	IGZ 50 Hz
24	Amrit Bottlers Ltd.	ABL-01	C-1	466704	NZR	IGZ 50 Hz
25	Brindavan Bottlers Ltd.	BBL-01	C-1	466678	NZR	IGZ 50 Hz
26	Deedee Enterprises	DDE-01	C-1	266705	NZR	IGZ 50 Hz
27	JN Investment	JNI-01	C-1	466391	NZR	IGZ 50 Hz
28	Malani Impex Inc.	MII-01	C-1	466526	NZR	IGZ 50 Hz
29	Metalfab Hightech Private Limited	MHPL-01	C-1	466281	NZR	IGZ 50 Hz
30	Sankalp International	SI-01	C-1	466304	NZR	IGZ 50 Hz
31	SE Investment	SE-01	C-1	466389	NZR	IGZ 50 Hz



## Appendix 3: Net Electricity Exported to Grid (EGy)

Project Proponents	Month	$E_{\text{Controller,Export}}$	$E_{\text{WEG,export}}$	$E_{\text{WEG,import}}$	$E_{\text{JMR,Export}}$	$E_{\text{JMR,Import}}$	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EGy
CEPCO	Nov-08	780617	740,352	3,146	8647250	36750	740,352	3,146	737,206
Delta Enterprises		161662	153,323	652			153,323	652	152,671
Ushdev International		159283	151,067	642			151,067	642	150,425
Brindavan Agro Industries		105530	100,087	425			100,087	425	99,662
Amrit Bottlers Ltd.		51779	49,108	209			49,108	209	48,899
Brindavan Bottlers Ltd.		53543	50,781	216			50,781	216	50,565
Deedee Enterprises		47573	45,119	192			45,119	192	44,927
JN Investment		50679	48,065	204			48,065	204	47,861
Malani Impex Inc.		53052	50,315	214			50,315	214	50,101
Metalfab Hightech Private Limited		49508	46,954	200			46,954	200	46,754
Sankalp International		53961	51,178	217			51,178	217	50,961
SE Investment		54149	51,356	218			51,356	218	51,138



Project Proponents	Month	E <sub>Controller,Export</sub>	E <sub>WEG,export</sub>	E <sub>WEG,import</sub>	E <sub>JMR,Export</sub>	E <sub>JMR,Import</sub>	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EGy
CEPCO	Dec-08	919376	876,441	2,994	11128000	38000	876,441	2,994	873,447
Delta Enterprises		189978	181,106	618			181,106	618	180,488
Ushdev International		183189	175,235	598			175,235	598	174,637
Brindavan Agro Industries		124154	118,356	404			118,356	404	117,952
Amrit Bottlers Ltd.		56862	54,207	185			54,207	185	54,022
Brindavan Bottlers Ltd.		61721	58,839	201			58,839	201	58,638
Deedee Enterprises		60237	57,424	196			57,424	196	57,228
JN Investment		61953	59,060	202			59,060	202	58,858
Malani Impex Inc.		59722	56,933	194			56,933	194	56,739
Metalfab Hightech Private Limited		61052	58,201	199			58,201	199	58,002
Sankalp International		61170	58,313	199			58,313	199	58,114
SE Investment		61377	58,511	200			58,511	200	58,311



Project Proponents	Month	$E_{\text{Controller, Export}}$	$E_{\text{WEG, export}}$	$E_{\text{WEG, import}}$	$E_{\text{JMRExport}}$	$E_{\text{JMREimport}}$	$\sum_{\text{Project}} E_{\text{WEG, Export}}$	$\sum_{\text{Project}} E_{\text{WEG, Import}}$	EGy
CEPCO	Jan-09	1145004	1,082,350	1,773	13268642	21750	1,082,350	1,773	1,080,577
Delta Enterprises		232295	219,584	360			219,584	360	219,224
Ushdev International		231180	218,530	358			218,530	358	218,172
Brindavan Agro Industries		158131	149,478	245			149,478	245	149,233
Amrit Bottlers Ltd.		78474	74,180	122			74,180	122	74,058
Brindavan Bottlers Ltd.		78864	74,549	122			74,549	122	74,427
Deedee Enterprises		72223	68,271	112			68,271	112	68,159
JN Investment		80464	76,061	125			76,061	125	75,936
Malani Impex Inc.		79858	75,488	124			75,488	124	75,364
Metallfab Hightech Private Limited		71158	67,264	110			67,264	110	67,154
Sankalp International		76157	71,990	118			71,990	118	71,872
SE Investment		81300	76,851	126			76,851	126	76,725





Project Proponents	Month	$E_{\text{Controller, Export}}$	$E_{\text{WEG, export}}$	$E_{\text{WEG, import}}$	$E_{\text{JMRExport}}$	$E_{\text{JMRExport}}$	$\sum_{\text{Project}} E_{\text{WEG, Export}}$	$\sum_{\text{Project}} E_{\text{WEG, Import}}$	EGy
CEPCO	Feb-09	740888	704,779	2,289	7545500	24500	704,779	2,289	702,490
Delta Enterprises		153997	146,491	476			146,491	476	146,015
Ushdev International		152076	144,664	470			144,664	470	144,194
Brindavan Agro Industries		95432	90,781	295			90,781	295	90,486
Amrit Bottlers Ltd.		53918	51,290	167			51,290	167	51,123
Brindavan Bottlers Ltd.		50878	48,398	157			48,398	157	48,241
Deedee Enterprises		50436	47,978	156			47,978	156	47,822
JN Investment		51355	48,852	159			48,852	159	48,693
Malani Impex Inc.		52089	49,550	161			49,550	161	49,389
Metalfab Hightech Private Limited		48051	45,709	148			45,709	148	45,561
Sankalp International		49747	47,322	154			47,322	154	47,168
SE Investment		53996	51,364	167			51,364	167	51,197



Project Proponents	Month	E <sub>Controller,Export</sub>	E <sub>WEG,export</sub>	E <sub>WEG,import</sub>	E <sub>JMR,Export</sub>	E <sub>JMR,Import</sub>	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EGy
CEPCO	Mar-09	1179598	1,134,611	1,449	12736500	16250	1,134,611	1,449	1,133,162
Delta Enterprises		251338	241,752	308			241,752	308	241,444
Ushdev International		241918	232,691	297			232,691	297	232,394
Brindavan Agro Industries		162715	156,509	200			156,509	200	156,309
Amrit Bottlers Ltd.		76071	73,170	93			73,170	93	73,077
Brindavan Bottlers Ltd.		80429	77,362	99			77,362	99	77,263
Deedee Enterprises		81618	78,505	100			78,505	100	78,405
JN Investment		78971	75,959	97			75,959	97	75,862
Malani Impex Inc.		79768	76,726	98			76,726	98	76,628
Metalfab Hightech Private Limited		78227	75,244	96			75,244	96	75,148
Sankalp International		73360	70,562	90			70,562	90	70,472
SE Investment		84755	81,523	104			81,523	104	81,419



Project Proponents	Month	E <sub>Controller,Export</sub>	E <sub>WEG,export</sub>	E <sub>WEG,import</sub>	E <sub>JMR,Export</sub>	E <sub>JMR,Import</sub>	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EG <sub>y</sub>
CEPCO	Apr-09	1468891	1,418,085	2,689	15821500	30000	1,418,085	2,689	1,415,396
Delta Enterprises		316939	305,977	580			305,977	580	305,397
Ushdev International		329457	318,062	603			318,062	603	317,459
Brindavan Agro Industries		208743	201,523	382			201,523	382	201,141
Amrit Bottlers Ltd.		106702	103,011	195			103,011	195	102,816
Brindavan Bottlers Ltd.		108039	104,302	198			104,302	198	104,104
Deedee Enterprises		107568	103,847	197			103,847	197	103,650
JN Investment		111590	107,730	204			107,730	204	107,526
Malani Impex Inc.		98787	95,370	181			95,370	181	95,189
Metalfab Hightech Private Limited		101981	98,454	187			98,454	187	98,267
Sankalp International		94271	91,010	173			91,010	173	90,837
SE Investment		115997	111,985	212			111,985	212	111,773



Project Proponents	Month	$E_{\text{Controller,Export}}$	$E_{\text{WEG,export}}$	$E_{\text{WEG,import}}$	$E_{\text{JMR,Export}}$	$E_{\text{JMR,Import}}$	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EGy
CEPCO	May-09	2527345	2,442,767	826	28109000	9500	2,442,767	826	2,441,941
Delta Enterprises		536366	518,416	172			518,416	172	518,244
Ushdev International		575882	556,610	188			556,610	188	556,422
Brindavan Agro Industries		372018	359,568	122			359,568	122	359,446
Amrit Bottlers Ltd.		193474	186,999	63			186,999	63	186,936
Brindavan Bottlers Ltd.		199222	192,555	65			192,555	65	192,490
Deedee Enterprises		188724	182,408	62			182,408	62	182,346
JN Investment		189918	183,562	62			183,562	62	183,500
Malani Impex Inc.		190829	184,443	62			184,443	62	184,381
Metalfab Hightech Private Limited		176852	170,934	58			170,934	58	170,876
Sankalp International		181826	175,741	59			175,741	59	175,682
SE Investment		190271	183,904	62			183,904	62	183,842



Project Proponents	Month	E <sub>Controller,Export</sub>	E <sub>WEG,export</sub>	E <sub>WEG,import</sub>	E <sub>JMR,Export</sub>	E <sub>JMR,Import</sub>	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EGy
CEPCO	Jun-09	2275194	2,194,016	234	25736500	2750	2,194,016	234	2,193,782
Delta Enterprises		481815	464,624	50			464,624	50	464,574
Ushdev International		488869	471,426	50			471,426	50	471,376
Brindavan Agro Industries		316058	304,781	33			304,781	33	304,748
Amrit Bottlers Ltd.		157014	151,412	16			151,412	16	151,396
Brindavan Bottlers Ltd.		158788	153,123	16			153,123	16	153,107
Deedee Enterprises		160852	155,113	17			155,113	17	155,096
JN Investment		153036	147,576	16			147,576	16	147,560
Malani Impex Inc.		156748	151,155	16			151,155	16	151,139
Metalfab Hightech Private Limited		155860	150,299	16			150,299	16	150,283
Sankalp International		158305	152,657	16			152,657	16	152,641
SE Investment		156296	150,719	16			150,719	16	150,703



Project Proponents	Month	E <sub>Controller,Export</sub>	E <sub>WEG,export</sub>	E <sub>WEG,import</sub>	E <sub>JMR,Export</sub>	E <sub>JMR,Import</sub>	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,import}}$	EGy
CEPCO	Jul-09	2017513	1,731,011	1,812	20778500	21750	1,731,011	1,812	1,729,199
Delta Enterprises		409574	391,320	410			391,320	410	390,910
Ushdev International		411578	393,235	412			393,235	412	392,823
Brindavan Agro Industries		251551	240,340	252			240,340	252	240,088
Amrit Bottlers Ltd.		102365	97,803	102			97,803	102	97,701
Brindavan Bottlers Ltd.		138239	132,078	138			132,078	138	131,940
Deedee Enterprises		139127	132,926	139			132,926	139	132,787
JN Investment		132870	126,948	133			126,948	133	126,815
Malani Impex Inc.		142362	136,017	142			136,017	142	135,875
Metalfab Hightech Private Limited		138598	132,421	139			132,421	139	132,282
Sankalp International		144783	138,330	145			138,330	145	138,185
SE Investment		140375	134,119	140			134,119	140	133,979



Project Proponents	Month	E <sub>Controller,Export</sub>	E <sub>WEG,export</sub>	E <sub>WEG,import</sub>	E <sub>JMR,Export</sub>	E <sub>JMR,Import</sub>	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EGy
CEPCO	Aug-09	2254388	2,162,685	522	27959250	6750	2,162,685	522	2,162,163
Delta Enterprises		510357	489,597	118			489,597	118	489,479
Ushdev International		521157	499,958	121			499,958	121	499,837
Brindavan Agro Industries		320482	307,446	74			307,446	74	307,372
Amrit Bottlers Ltd.		168822	161,955	39			161,955	39	161,916
Brindavan Bottlers Ltd.		173504	166,446	40			166,446	40	166,406
Deedee Enterprises		174494	167,396	40			167,396	40	167,356
JN Investment		172601	165,580	40			165,580	40	165,540
Malani Impex Inc.		173354	166,302	40			166,302	40	166,262
Metalfab Hightech Private Limited		172512	165,495	40			165,495	40	165,455
Sankalp International		165553	158,819	38			158,819	38	158,781
SE Investment		138322	132,695	32			132,695	32	132,663



Project Proponents	Month	E <sub>Controller,Export</sub>	E <sub>WEG,export</sub>	E <sub>WEG,import</sub>	E <sub>JMR,Export</sub>	E <sub>JMR,Import</sub>	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EGy
CEPCO	Sep-09	2115698	2,037,127	1,003	24878250	12250	2,037,127	1,003	2,036,124
Delta Enterprises		446298	429,724	212			429,724	212	429,512
Ushdev International		473507	455,922	224			455,922	224	455,698
Brindavan Agro Industries		287861	277,171	136			277,171	136	277,035
Amrit Bottlers Ltd.		151484	145,858	72			145,858	72	145,786
Brindavan Bottlers Ltd.		148939	143,408	71			143,408	71	143,337
Deedee Enterprises		149224	143,682	71			143,682	71	143,611
JN Investment		157912	152,048	75			152,048	75	151,973
Malani Impex Inc.		151523	145,896	72			145,896	72	145,824
Metalfab Hightech Private Limited		151692	146,059	72			146,059	72	145,987
Sankalp International		158416	152,533	75			152,533	75	152,458
SE Investment		144687	139,314	69			139,314	69	139,245





Project Proponents	Month	$E_{\text{Controller,Export}}$	$E_{\text{WEG,export}}$	$E_{\text{WEG,import}}$	$E_{\text{JMR,Export}}$	$E_{\text{JMR,Import}}$	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EG <sub>y</sub>
CEPCO	Oct-09	613014	584,964	4,144	7092750	50250	584,964	4,144	580,820
Delta Enterprises		134130	127,993	908			127,993	908	127,085
Ushdev International		136479	130,234	923			130,234	923	129,311
Brindavan Agro Industries		83762	79,929	566			79,929	566	79,363
Amrit Bottlers Ltd.		49260	47,006	333			47,006	333	46,673
Brindavan Bottlers Ltd.		45661	43,572	309			43,572	309	43,263
Deedee Enterprises		46988	44,838	318			44,838	318	44,520
JN Investment		39583	37,772	268			37,772	268	37,504
Malani Impex Inc.		19639	18,740	133			18,740	133	18,607
Metalfab Hightech Private Limited		45276	43,204	306			43,204	306	42,898
Sankalp International		45838	43,741	310			43,741	310	43,431
SE Investment		45278	43,206	306			43,206	306	42,900



Project Proponents	Month	$E_{\text{Controller,Export}}$	$E_{\text{WEG,export}}$	$E_{\text{WEG,import}}$	$E_{\text{JMRE,Export}}$	$E_{\text{JMRE,Import}}$	$\sum_{\text{Project}} E_{\text{WEG,Export}}$	$\sum_{\text{Project}} E_{\text{WEG,Import}}$	EGy
CEPCO	Nov-09	793624	752,088	4,246	8899750	50250	752,088	4,246	747,842
Delta Enterprises		145416	137,806	778			137,806	778	137,028
Ushdev International		160759	152,346	860			152,346	860	151,486
Brindavan Agro Industries		112492	106,605	602			106,605	602	106,003
Amrit Bottlers Ltd.		50990	48,321	272			48,321	272	48,049
Brindavan Bottlers Ltd.		53407	50,612	286			50,612	286	50,326
Deedee Enterprises		52068	49,343	279			49,343	279	49,064
JN Investment		52347	49,607	280			49,607	280	49,327
Malani Impex Inc.		50290	47,658	269			47,658	269	47,389
Metalfab Hightech Private Limited		51606	48,905	276			48,905	276	48,629
Sankalp International		52237	49,503	280			49,503	280	49,223
SE Investment		53941	51,118	289			51,118	289	50,829



*Note: \* Joint Meter Reading is generated on 1<sup>st</sup> day of every month. Carving out generation details for 2 days i.e., from 30/10/2008 to 31/10/2008 is difficult. Hence, the project proponent wishes to forego the generation for those 2 days for the purpose of simplicity in the calculation of Emission reductions during this verification.*