

**MONITORING REPORT FORM (CDM-MR) ***
Version 01 - in effect as of: 28/09/2010**CONTENTS**

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* as contained within the document entitled "Guidelines for completing the monitoring report form (CDM-MR)" (EB 54 meeting report, annex 34).

**MONITORING REPORT**
Version 4.0 and Date 10/09/2012**Title: Bundled Wind power project in Jaisalmer (Rajasthan in India) managed by Enercon (India) Ltd.****Project Reference No: 0310****Monitoring Period No 2- FROM 01/07/2006 TO 31/08/2011 (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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The project activity involves the development and operation of grid-connected wind based electricity generation facilities with aggregate installed capacity of 58.2 MW as per the registered PDD (version 2.0, dated 15/12/2005). Later on during the current monitoring period, 07 WTGs of the project activity were decommissioned in the month of June 2008 due to which total project capacity was reduced to 54.0¹ MW as per the revised PDD (version 6.0, dated 26/04/2012) approved by UNFCCC on 13/07/2012, located within a wind park.

The project activity generates and sells electricity to the RRVPNL under 20 year power purchase agreements (PPAs) under similar tariff. Enercon (India) Limited provides operation and maintenance services under contract to the sponsors for the entire project activity. All the component wind farms have been commissioned, and supplies electricity to the RRVPNL in accordance with the preferential dispatching system.

The project activity involves development, design, engineering, procurement, finance, construction, operation and maintenance of wind energy based electricity generating stations that will provide electricity to the RRVPNL grid under the PPAs.

Apart from the generation of electrical power, the Project also contributes to the following:

- Sustainable development, through utilisation of renewable wind resources available in the region where the Project will operate;
- Reduction of Green House Gases, specifically CO₂;
- Rural and Infrastructural development in the areas around the Project;
- Capacity addition to the present installed capacity and increase in the energy availability at places of scarcity;
- Strengthening the countries rural electrification coverage;
- Generation of permanent and temporary employment and production of indirect employment in the area; and
- Project contribution for community development of the local rural area.

The first machine under the project activity was commissioned on 29 September 2003 and last machine under the project activity was commissioned on 21 June 2004. The expected operational lifetime of the project is for 20 years. The total emission reductions achieved under this monitoring period (01 July 2006 to 31 Aug 2011) is **373,538 tCO₂**.

¹ PP has applied for notification of change in project design and same has been approved by UNFCCC.

**A.2. Project Participants**

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- 1) Enercon (India) Limited
- 2) 'Netherlands' Ministry of Infrastructure and the Environment (IenM)
- 3) International Finance Corporation as Trustee of the IFC-Netherlands Carbon Facility (INCaF)

A.3. Location of the project activity:

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The wind farm is located at Soda village, in Jaisalmer District of Rajasthan state in India. The project area is located in a wind zone of geographic location 26°54'N and 70°55'E. The project area extends between 26°40'N latitude and 69°36'E longitude to 26°42'N latitude and 69°38'E longitude. The sites are located at a distance of 5 – 45 km from Jaisalmer, 300 km from Jodhpur by road. The nearest railway station is at Jaisalmer.

A.4. Technical description of the project

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The facilities included in the project activity utilize a total of 97 WTG (Wind Turbine Generator) of 600 kW per the registered PDD (version 2.0, dated 15/12/2005). Later on during the current monitoring period, 07 WTGs of the project activity were decommissioned in the month of June 2008 due to which at present there are total 90 numbers of 600 kW rated WTGs (Enercon make) in the project activity as per revised PDD (version 6.0, dated 26/04/2012). These turbines are linked from individual facilities through internal electrical lines connecting the wind park to a local 33/132kV sub-station, and a 132kV Double Circuit line with the RRVPNL 220/132kV sub-station at Amarsagar using the local transmission lines.

The turbines generate 3-phase power at 400V, which is stepped up to 33KV. The substations and 33KV lines are maintained by the RRVPNL. The wind farms operate as base load units and can operate in the frequency range of 47.5 – 51.5Hz. The wind farms generate data every 30 minutes on the unit of electricity generated and dispatched to the grid; such data is being monitored and tracked by EIL on a daily basis.

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 ensuring optimum efficiency at all times, having speed range of 18 to 33 RPM.
- 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 WTG (Wind Turbine Generator) 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 Systems.
- 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.

EIL 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: The approved baseline methodology **ACM0002**, version 04, Sectoral Scope: 1, "Consolidated baseline methodology for grid-connected electricity generation from renewable sources", by CDM Meth Panel has been used to determine the baseline emissions and emission reductions due to the project activity.

Monitoring Methodology: Approved monitoring methodology ACM0002, version 04, Sectoral Scope: 1, "Consolidated monitoring methodology for zero-emissions grid-connected electricity generation from renewable sources".

A.6. Registration date of the project activity:

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29/05/2006²

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

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01 Jul 04 - 30 Jun 14 (Fixed)

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

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Contact Information of responsible person(s)/entity(ies) is given in the table below:

Organization:	Enercon (India) Ltd.
Street/P.O.Box:	A-9, Veera Industrial Estate, Veera Desai Road, Andheri (West)
Building:	Enercon Towers
City:	Mumbai
State/Region:	Maharashtra
Postfix/ZIP:	400 053
Country:	India
Telephone:	+91-22-66924848
FAX:	+91-22-66921175
E-Mail:	yogesh.mehra@enerconindia.net
URL:	
Represented by:	
Title:	Managing Director
Salutation:	Mr.
Last Name:	Mehra
Middle Name:	
First Name:	Yogesh

² <http://cdm.unfccc.int/Projects/DB/DNV-CUK1143050217.74/view>



Department:	Corporate
Mobile:	
Direct FAX:	+91-22-66921175
Direct tel:	+91-22-66924848
Personal E-Mail:	yogesh.mehra@enerconindia.net

SECTION B. Implementation of the project activity

B.1. Implementation status of the project activity

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The first machine under the project activity was commissioned on 29 September 2003 and last machine under the project activity was commissioned on 21 June 2004. Commissioning details of individual WTGs has been provided under Appendix 1 of MR.

During the present monitoring period project capacity has been changed from 58.2 MW (as per registered PDD, version 2.0 & dated 15/12/2005) to 54.0 MW (as per revised PDD, version 6.0 & dated 26/04/2012). The capacity distribution has changed as follows:-

- 1) The ownership of 31 machines owned by different customers has changed to Enercon Wind Farm ((Tungbhadra) Pvt. Ltd (“EWFTPL”) and
- 2) The ownership of 1 machines owned by Dempo Industries Pvt Ltd has changed to Enercon (India) Limited (“EIL”) and
- 3) The ownership of 7 machines owned by Shriram Transport Finance Co. Ltd has changed to NU Power Renewables Ltd.

List of the machines for which ownership has changed is given below:-

S.No.	Customers	Number of Machines	Capacity [MW]	Remark
1	R.K. Marbles Group	10	6.0	The following 31 number of machines are transferred to EWFTPL
	Revathi Equipment Ltd.	4	2.4	
	Renaissance Asset Management Co. Pvt. Ltd.	2	1.20	
	Texmo Group	7	4.2	
	Venlon Polyester Film Ltd.	5	3.0	
	Dinesh Pouches Ltd.	3	1.8	
2	Dempo Industries Pvt. Ltd	1	0.60	The 01 number of machine are transferred to EIL
3	Shriram Transport Finance Co. Ltd	7	4.2	Ownership of following 7 WTGs has been changed to NU power Renewables Ltd.
	Total	39	23.4	

Table: 1



Out of these 31 machines for which ownership has been changed to EWFTPL, 6 WTGs have been decommissioned by EWFTPL. For one machine ownership has been changed from Dempo Industries Pvt. Ltd to EIL which was further decommissioned. The total installed capacity is therefore decreased from 58.2 MW to 54.0 MW. Date of decommissioning of 07 WTG is as follows:-

S. No.	Owner	WTGs	Capacity (MW)	Decommissioning Date
1	Dinesh Pouches Ltd.	01	0.6 MW	03/06/2008
2	R. K. Marbles	01	0.6 MW	03/06/2008
3	Revathi Equipments Ltd.	01	0.6 MW	03/06/2008
4	Texmo Industries Ltd.	01	0.6 MW	02/06/2008
5	Venlon Polyester Film Ltd	02	1.2 MW	02/06/2008
6	Dempo Industries Pvt. Ltd.	01	0.6 MW	02/06/2008
	Total	07	4.2 MW	

Table: 2

The 7 machines with a capacity of 4.2 MW, for which ownership has changed to NU Power Renewables Ltd. which were originally belonged to Shriram Transport Finance Co. Ltd.

Enercon operation and maintenance activities are ISO 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 events pertaining to operation of 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. Further the WTG performance report of project WTGs during the monitoring has been submitted. During the monitoring period there were no events or situations occurred, which may impact the applicability of the methodology.

B.2. Revision of the monitoring plan

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PP has applied for revision in Monitoring Plan along with design change notification³ which has been approved on dated 13 Jul 2012 by UNFCCC.

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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Notification on request of approval of changes⁴ has been approved on dated 13 July 2012 by UNFCCC

³ <http://cdm.unfccc.int/Projects/DB/DNV-CUK1143050217.74/view>

⁴ <http://cdm.unfccc.int/Projects/DB/DNV-CUK1143050217.74/view>

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

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The monitoring methodology is used in conjunction with the adopted baseline methodology (ACM0002), version 04 that is applicable to electricity capacity additions from wind sources.

The methodology requires monitoring of the following:

- Electricity generation from the proposed project activity;
- Operating margin emission factor, if needed based on choice of methodology
- Build margin emission factor of the grid, if needed based on choice of methodology

For the project activity to establish its creditable emission reduction, it has to record the actual electricity generation, which would displace equivalent units of electricity at the operating and build margin of the Northern regional grid. Since the simple OM emission factor is calculated based on a 3 year average, based on the most recent statistics available at the time of PDD preparation, its updation based on ex post monitoring is not required. For BM calculation, option 1 (refer ACM 0002) has been chosen, which is calculated ex ante based on the most recent information, hence its monitoring is also not required. Thus, under the monitoring protocol for the project it is required to:

- Monitor and record the actual units of electricity supplied to the grid by the wind farms

The procedure for allocation of the net electricity exported (EG_y) to the grid is as follows:-

Calculation of Net Electricity Supplied to the grid by project activity:

The project activity is located at Soda village, in Jaisalmer District of Rajasthan state in India. The WTG's are connected to Amarsagar substation. In addition to the project activity, the wind farms of non project activity are also connected to the Amarsagar substation. Electricity delivered by all these wind farms is 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 and non 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 (Local Control System) LCS meters at the individual wind turbines. LCS meter records the electricity exported by the WTG to the grid which is used for apportioning procedure

The net electricity supplied to the grid will be calculated on monthly basis at the State utility (State utility) substations (Amarsagar) wherein the billing meter is connected. The monthly joint meter readings are taken by the representatives of state utility and Enercon (PP's representative) who also signs the JMR. Simultaneously, the monthly joint meter reading of backup meters available at EIL pooling sub-stations (Temedari) is also taken by representatives of state utility and Enercon. The copy of JMR at backup meters is available with Enercon.

Since the project activity WTGs are connected through common metering system along with non project activity WTGs of other customers, apportioning of net electricity export & import as recorded in JMR is being done to calculate the electricity export & import by individual customers WTGs. Apportioning⁵ is

⁵ Since LCS meter records the gross electricity export (gross generation by WTG) by WTG only and doesn't record the electricity import, hence in order to calculate the net electricity generation supplied to grid by all



being done based on the Gross electricity export by WTG as recorded at LCS meter installed in individual WTGs.

Based on the monthly JMR reading, which is signed by representative of state utility and PP's representative (Enercon); Enercon prepares the monthly breakup⁶ generation sheets which indicate the export, import & net electricity supplied by individual customers to the grid. An apportioning procedure is used by PP's representative to arrive at net electricity supplied to the grid by individual investors.

The monthly generation sheet is submitted to both, state utility as well as individual investors. PP raises the invoice based on the monthly breakup sheet corresponding to the net electricity generation value indicated in the monthly breakup sheet. DISCOM based on the JMR reading along with monthly breakup sheet prepared by Enercon and the invoice raised by investors, conduct the audit to cross check the net electricity values and in case all the values are found to be correct, state utility release the payment against the invoice raised by individual investors.

The values of the net electricity supplied to grid by project activity can be cross checked with invoices raised by the PP on state utility.

Allocation plan for calculating net electricity generation supplied to the grid for project activity is as follows:-

The monthly JMR reading contains the electricity export, import & net electricity supplied by all the WTGs of project activity as well as non project activity connected to the metering system at state utility substation. Hence in order to arrive at the electricity export, import & net electricity supplied by WTGs of the project activity based on Gross electricity export by WTG as recorded at LCS meter, following procedure is used by O&M contractor (Enercon):-.

Electricity exported by all WTGs of project activity is apportioned on the basis of summation of Gross electricity export⁷ by all WTGs of project activity, as measured at the controller (LCS meter) at project site and the electricity export recorded at the main meter mentioned in the JMR. The formula used for computing electricity export to the grid by any sub-project M, included in project activity is as follows:-

Electricity Export to the grid by the sub-project M included in the project activity,

WTGs of project activity (EG_y), PP will conservatively deduct the total Electricity imported by project activity & non project activity WTGs, as recorded by the main meter at the state utility substation ($E_{JMR,Import}$) from the Summation of Electricity export to the grid by all the sub-Projects included in the project activity ($\sum EG_{Export,y,M}$) instead of apportioning of Import data; detailed calculation is given in following paragraphs

⁶ As per section 4.2 (iv) of PPA 'Measurement of Energy and Metering':- The developer will intimate/furnish the details of break-up of the energy supplied at Common Delivery Point. Based on such break-up, the power supplied by individual Power Producer shall be considered for the purpose of payment. Further the details of break-up of energy as intimated by Developer shall be final and binding on the Power Producer(s) using the common injection system and Metering equipment. .

⁷ LCS meter installed in individual WTGs control panel measures the gross electricity export by WTG and therefore $\sum EG_{Controller, i}$ is used by developer to calculate electricity export by individual developer (project activity & non project activity WTGs)..



$$EG_{\text{Export},y,M} = \frac{EG_{\text{JMR,Export}} * \sum EG_{\text{Controller},N,M}}{\sum EG_{\text{Controller},i}^8} \dots\dots\dots(1)$$

As LCS meter measures the Gross electricity export by WTGs and doesn't provide individual reading of Export & Import. Therefore apportioning of export as well as import for the purpose of billing (invoicing) for all WTG of the sub-projects included in project activity is also apportioned on the basis of summation of gross electricity export by all the WTGs of project activity, as measured at the controller (LCS meter) at project site and the electricity import recorded at the main meter mentioned in the JMR. This is a standard procedure that is followed in the state of Rajasthan and is accepted by the state DISCOM for payment of tariff invoices and payment.

Though in order to being conservative while calculating the net electricity generation supplied to grid by all WTGs of project activity (EG_y), PP will conservatively deduct the total Electricity imported by project activity & non project activity WTGs, as recorded by the main meter at the state utility substation ($E_{\text{JMR,Import}}$) from the summation of electricity export to the grid by all the sub-Projects included in the project activity ($\sum EG_{\text{Export},y,M}$) instead of apportioning of Import data; detailed calculation is given in following paragraphs.

This is a conservative approach to estimate net electricity supplied to the grid as import data recorded at the substation including WTGs included in the project activity and WTGs not included in the project activity ($E_{\text{JMR,Import}}$) is deducted from the summation of electricity export to the grid by all the sub-Projects included in the project activity ($\sum EG_{\text{Export},y,M}$).

Therefore net electricity generation supplied to grid by all WTGs of the project activity is calculated as:

$$EG_y = \sum EG_{\text{Export},y,M} - E_{\text{JMR,Import}} \dots\dots\dots(2)$$

Thus calculated value of EG_y will be used to calculate total emission reduction from project activity.

Wherein,

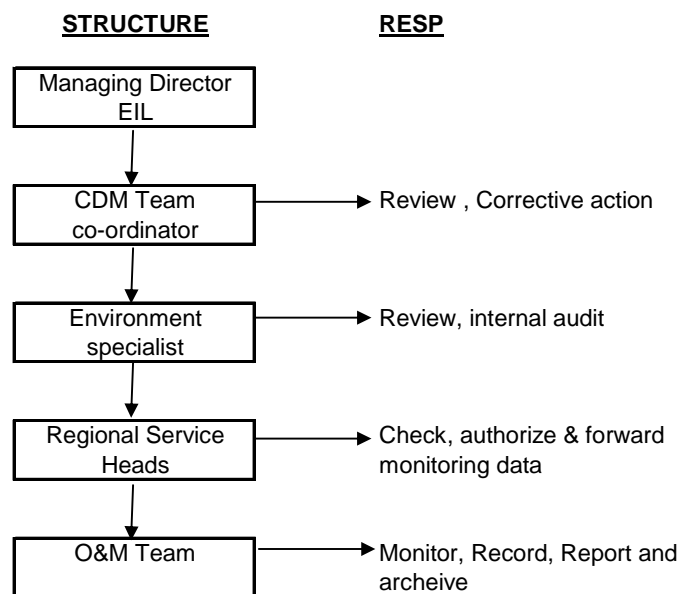
- $\sum EG_{\text{Controller}, N,M}$ = Summation of net electricity generation by all WTGs (N number of WTGs) of sub project M, included in the project activity, as measured at the controller (LCS meter) at project site; where N is number of WTGs in the sub project M included in the project activity
- $EG_{\text{Controller},i}$ = Summation of net electricity generation by an WTG (project or non project activity connected at main meter), as measured at the controller (LCS meter) at project site. Where i is number of WTGs including project activity and non project activity.

⁸ The report detailing the value of $\sum EG_{\text{Controller},i}$ can be provided to the verifying DOE on request.



$\sum EG_{\text{Controller},i}$	=	Summation of net electricity generation by all WTGs of project activity as well as non project activity connected at main meter, as measured at the controller (LCS meter) at project site; where i is number of WTGs including project activity and non project activity.
$EG_{\text{JMR,Export}}$	=	Electricity export by project and non project activity as recorded at respective billing meters located at state utility sub-station. This can be checked from JMR certificates.
$EG_{\text{JMR,Import}}$	=	Electricity import by project and non project activity as recorded at respective billing meters located at state utility sub-station. This can be checked from JMR certificates.

The Project is operated and managed by Enercon (India) Ltd. The operational and management structure implemented by Enercon is as follows:



ORGANOGRAM OF THE CDM PROJECT MONITORING

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:	$EF_{CM,y}$
Data unit:	tCO ₂ e/MWh
Description:	Combined Margin Emission Factor of Northern Regional Grid
Source of data used:	Revised PDD (version 6.0, dated 26/04/2012 & approved by UNFCCC on 13/07/2012).



Value(s) :	= 0.90852
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions
Additional comment:	None

Data / Parameter:	$EF_{OM,y}$								
Data unit:	tCO ₂ e/MWh								
Description:	Operating Margin Emission Factor of Northern Regional Grid								
Source of data used:	Revised PDD (version 6.0, dated 26/04/2012 & approved by UNFCCC on 13/07/2012).								
Value(s) :	<table border="1"> <tr> <td>2001 – 02</td><td>1.12172</td></tr> <tr> <td>2002 – 03</td><td>1.12260</td></tr> <tr> <td>2003 – 04</td><td>1.02817</td></tr> <tr> <td>Average</td><td>1.09083</td></tr> </table>	2001 – 02	1.12172	2002 – 03	1.12260	2003 – 04	1.02817	Average	1.09083
2001 – 02	1.12172								
2002 – 03	1.12260								
2003 – 04	1.02817								
Average	1.09083								
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions								
Additional comment:	None								

Data / Parameter:	$EF_{BM,y}$		
Data unit:	tCO ₂ e/MWh		
Description:	Build Margin Emission Factor of Northern Regional Grid		
Source of data used:	Revised PDD (version 6.0, dated 26/04/2012 & approved by UNFCCC on 13/07/2012).		
Value(s) :	<table border="1"> <tr> <td>2003 – 04</td><td>0.72621</td></tr> </table>	2003 – 04	0.72621
2003 – 04	0.72621		
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emissions		
Additional comment:	None		

D.2. Data and parameters monitored

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Data / Parameter:	EG_y
Data unit:	MWh (Mega-Watt hour)
Description:	Net electricity generation supplied to the grid by the Project activity
Measured /Calculated /Default:	Calculated
Source of data:	Net electricity generation supplied to the grid is a calculated value which is based on the monthly JMR reading and the LCS reading.
Value(s) of monitored parameter:	=411,154.189 (EG _y is calculated after applying correction factor based on guidelines for assessing compliance with the calibration frequency requirement, EB 52 annex 60)
Indicate what the data are	Baseline



used for (Baseline/ Project/ Leakage emission calculations)	
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	The metering equipments (main & back up meters) were tested by State Utility on annual basis. There are two main meters at Amarsagar sub-station & 2 backup meters as Temdarai sub-station. All the main and check meters are Two-way tri-vector meters capable of recording export and import of accuracy class of 0.2s (make-secure meter). Please refer table no 2, Annex -1 for calibration details.
Measuring/ Reading/ Recording frequency:	-Main and Backup meters measures the electricity (export & Import) on continuous basis and recorded by state utility on monthly basis. -Panel meter (LCS controller) measures the Gross electricity export by WTG on continuous basis and daily/monthly data can be sourced/recorded from online SCADA system.
Calculation method (if applicable):	Please refer equation no (1) & (2) in section C of Monitoring Report for calculation method.
QA/QC procedures applied:	Value of EG_y can be cross checked with the tariff invoices raised on the state utility . Please refer annex 1 for detailed monitoring information. The data will be archived both in electronic and hard paper format for crediting period + 2 years.

Data / Parameter:	$EG_{JMR, Export}$
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity exported by project activity and non-project activity WTGs, as recorded by the main meters at the Amarsagar (state utility sub-station).
Measured /Calculated /Default:	Measured
Source of data:	Monthly JMRs sheets recorded at utility sub-station.
Value(s) of monitored parameter:	1,030,473.572
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	The metering equipments (main & back up meters) were tested by State Utility on annual basis. There are two main meters at Amarsagar sub-station & 2 backup meters as Temdarai sub-station. All the main and check meters are Two-way tri-vector meters capable of recording export and import of accuracy class of 0.2s (make-secure meter). Please refer table no. 2 Annex -1 for calibration details.
Measuring/ Reading/ Recording frequency:	Monthly.
Calculation method (if applicable):	Not applicable. This value will be directly sourced from monthly JMR.
QA/QC procedures applied:	Please refer annex 1 for detailed monitoring information. The data will be archived both in electronic and hard paper format for



	crediting period + 2 years.
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Data / Parameter:	EG_{JMR, Import}
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity imported by project activity and non-project activity WTGs as recorded by the main meter at the Amarsagar (state utility sub-station).
Measured /Calculated /Default:	Measured
Source of data:	Monthly JMRs sheets recorded at utility sub-station.
Value(s) of monitored parameter:	1,789.848
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	The metering equipments (main & back up meters) were tested by State Utility on annual basis. There are two main meters at Amarsagar sub-station & 2 backup meters at Temdarai sub-station. All the main and check meters are Two-way tri-vector meters capable of recording export and import of accuracy class of 0.2s (make-secure meter). Please refer table no. 2 Annex -1 for calibration details.
Measuring/ Reading/ Recording frequency:	Monthly.
Calculation method (if applicable):	Not applicable. This value will be directly sourced from monthly JMR.
QA/QC procedures applied:	Please refer annex 1 for detailed monitoring information. The data will be archived both in electronic and hard paper format for crediting period + 2 years.

Data / Parameter:	EG_{Controller,i}
Data unit:	MWh (Mega-Watt hour)
Description:	Gross electricity export (gross electricity generation by WTG) by a WTG of project activity or non project activity, as measured at the controller (LCS meter) at project site. Where i, is the total number of WTGs connected to main meter including both project activity & non project activity.
Measured /Calculated /Default:	Measured
Source of data:	Monthly generation report (LCS) sourced from SCADA provided by Enercon.
Value(s) of monitored parameter:	Please refer CER calculation sheet.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline
Monitoring equipment (type, accuracy class, serial number, calibration)	LCS meter (controller) is in-built electronic panel installed inside the WTG tower. All the LCS meters are auto calibrated. Please refer Annex-1 for controller (LCS meter) serial number and the detailed



frequency, date of last calibration, validity)	description.
Measuring/ Reading/ Recording frequency:	The value is monitored continuously and recorded daily by the online monitoring station at the site. In addition to the daily generation report and monthly generation report are also available at monitoring station.
Calculation method (if applicable):	-
QA/QC procedures applied:	Please refer annex 1 for detailed monitoring information. The data will be archived both in electronic format for crediting period + 2 years.

Data / Parameter:	$\sum EG_{\text{Controller},i}$
Data unit:	MWh (Mega-Watt hour)
Description:	Summation of Gross electricity export (Gross electricity generation by WTG) by all WTG of project activity and non project, as measured at the controller (LCS meter) at project site,
Measured /Calculated /Default:	Calculated
Source of data:	Monthly generation report (LCS) sourced from SCADA provided by Enercon.
Value(s) of monitored parameter:	1,074,150.731
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Not applicable since monitoring equipment is the in-built electronic panel (LCS) installed inside the WTG tower. All the LCS meters are auto calibrated. Please refer Annex-1 for the detailed description.
Measuring/ Reading/ Recording frequency:	The value is monitored continuously and recorded daily by the online monitoring station at the site. In addition to the daily generation report and monthly generation report are also available at monitoring station.
Calculation method (if applicable):	-
QA/QC procedures applied:	Please refer annex 1 for detailed monitoring information. The data will be archived both in electronic format for crediting period + 2 years.

Data / Parameter:	$\sum EG_{\text{Controller}, N,M}$
Data unit:	MWh (Mega-Watt hour)
Description:	Summation of Gross electricity export (Gross electricity generation by WTG) by all the WTGs (N number of WTGs) of sub-project (M) included in the project activity, as measured at the LCS where M is any sub project included in the project activity and N is the number of WTGs in a sub-project.
Measured /Calculated	Calculated



/Default:	
Source of data:	Monthly generation report (LCS) sourced from SCADA provided by Enercon.
Value(s) of monitored parameter:	43,0454.872
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Not applicable since monitoring equipment is the in-built electronic panel (LCS) installed inside the WTG tower. All the LCS meters are auto calibrated. Please refer Annex-1 for the detailed description.
Measuring/ Reading/ Recording frequency:	The value is monitored continuously and recorded daily by the online monitoring station at the site. In addition to the daily generation report and monthly generation report are also available at monitoring station.
Calculation method (if applicable):	-
QA/QC procedures applied:	Please refer annex 1 for detailed monitoring information. The data will be archived both in electronic format for crediting period + 2 years.

Data / Parameter:	EG_{Export,y,M}
Data unit:	MWh (Mega-watt hour)
Description:	Electricity export to the grid by all WTGs of a sub-Project included in the project activity, where M is any sub project included the project activity.
Measured /Calculated /Default:	Calculated
Source of data:	Generation break-up sheets prepared by the O&M contractor which is based on the monthly JMR reading and the LCS reading.
Value(s) of monitored parameter:	Refer CER calculation sheet
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	The metering equipments (main & back up meters) were tested by State Utility on annual basis. There are two main meters at Amarsagar sub-station & 2 backup meters as Temdarai sub-station. All the main and check meters are Two-way tri-vector meters capable of recording export and import of accuracy class of 0.2s (make-secure meter). Please refer table no 2, Annex -1 for calibration details..
Measuring/ Reading/ Recording frequency:	Monthly.
Calculation method (if applicable):	Please refer equation no (1) section C of Monitoring Report for calculation method.
QA/QC procedures applied:	Value of EG _{Export,y,M} can be cross checked with the tariff invoices



	<p>raised on the state utility .</p> <p>Please refer annex 1 for detailed monitoring information.</p> <p>The data will be archived both in electronic and hard paper format for crediting period + 2 years.</p>
--	---

Data / Parameter:	$\sum EG_{\text{Export},y,M}$
Data unit:	MWh (Mega-watt hour)
Description:	Summation of Electricity export to the grid by all the sub-Projects included in the project activity.
Measured /Calculated /Default:	Calculated
Source of data:	Generation break-up sheets prepared by the O&M contractor which is based on the monthly JMR reading and the LCS reading.
Value(s) of monitored parameter:	=412,963.632
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	The metering equipments (main & back up meters) were tested by State Utility on annual basis. There are two main meters at Amarsagar sub-station & 2 backup meters as Temdarai sub-station. All the main and check meters are Two-way tri-vector meters capable of recording export and import of accuracy class of 0.2s (make-secure meter). Please refer table no 2, Annex -1 for calibration details
Measuring/ Reading/ Recording frequency:	Monthly.
Calculation method (if applicable):	The value is calculated by the summation of $EG_{\text{Export},y,M}$ for all the sub projects (M).
QA/QC procedures applied:	Please refer annex 1 for detailed monitoring information. The data will be archived both in electronic and hard paper format for crediting period + 2 years.

The data will be stored in hard format and soft format by PP (Enercon) at the project site office. Joint meter reading is taken in the presence of the persons representing Enercon [Operation and Maintenance Contractor]. The archive will be kept for the period up to two years after the completion of the crediting period.

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 CO₂e/kWh) calculated in a transparent and conservative manner as the weighted average emissions (in kg CO₂e/kWh) as described in registered PDD.

$$BE_y = EG_y * EF_y$$

Where,



BE is baseline emissions in year y, tCO₂e

EG_y is the net electricity supplied to the grid in year y and is applied directly from JMR (Form B) certified by state utility. This value can also be cross checked from the invoice.

EF_y is the CO₂ emission factor of the grid (0.90852 tCO₂e/MWh fixed ex-ante).

Baseline emission reductions for project activity:-

Duration	Net Export to grid (MWh)	Baseline Emission Factor (tCO ₂ e/MWh)	Baseline Emission Reductions (tCO ₂ e)
	[EG _y]	[EF _y]	[BE _y]
Jul 06 to Dec 06	36,687.502	0.90852	33,331
Jan 07 to Dec 07	80,038.742	0.90852	72,716
Jan 08 to Dec 08	86,160.113	0.90852	78,278
Jan 09 to Dec 09	81,168.905	0.90852	73,743
Jan 10 to Dec 10	68,525.670	0.90852	62,256
Jan 11 to Aug 11	58,573.257	0.90852	53,214
Total	4,11,154.189		373,538

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 **373,538 tCO₂**.

Total baseline emissions: tCO₂

Total project emissions: Zero

Total leakage: Zero

$$\begin{aligned} \text{Emission reductions } E_{Ry} &= BE_y - PE_y - L_y \\ &= 373,538 \text{ tCO}_2 \end{aligned}$$

Months	Baseline Emissions [tCO ₂ e]	Project Emissions [tCO ₂ e]	Emission Reductions [tCO ₂ e]
	[BE _y]	[PE _y]	[E _{Ry}] = [BE _y] - [PE _y]
Jul 06 to Dec 06	33,331	0	33,331
Jan 07 to Dec 07	72,716	0	72,716



Jan 08 to Dec 08	78,278	0	78,278
Jan 09 to Dec 09	73,743	0	73,743
Jan 10 to Dec 10	62,256	0	62,256
Jan 11 to Aug 11	53,214	0	53,214
Total	3,73,538	0	3,73,538

Total Emission Reductions for the monitoring period are **373,538**

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

>>

Item	Values applied in ex-ante calculation of the registered CDM-PDD	Actual values reached during the monitoring period
Emission reductions (tCO₂e)	512,874 (62 months equivalent of emission reductions estimated in the revised PDD (version 6.0, dated 26/04/2012 & approved by UNFCCC on 13/07/2012 PDD))	373,538

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

>>

There is change of 27.17% (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.

History of the document

Version	Date	Nature of revision
01	EB 54, Annex 34 28 May 2010	Initial adoption.
Decision Class: Regulatory Document Type: Guideline, Form Business Function: Issuance		



Annex 1

MONITORING INFORMATION

Metering and Monitoring Plan details

The general conditions set out for metering, recording, meter readings, meter inspections, Test & Checking and communication shall be applicable as per the PPA (Power purchase agreement) with the State electricity board.

The Project is operated and managed by Enercon (India) Ltd. The general conditions of monitoring are described below :-

- Project activity consists of two metering points, main & backup metering points. Main metering point is located at Amarsagar sub-station (33/132/220kV) which is managed by state utility (RRVPN) while backup metering point is located at Temdarai sub-station (33/132 kV) which is managed by Enercon (India) Limited.
- At Temdarai Sub-station there are two backup meters (Back up meters B1 & B2) which records the electricity supplied to the grid by the project activity and non project activity WTGs at 132kV Level. From Temdarai sub-station electricity is transmitted to Amarsagar sub-station through two EHV transmission lines (132kV each).
- At Amarsagar sub-station there are two main meters (main meters M1 and M2) at 132 kV Level which is connected at each 132kV EHV lines coming from Temdarai sub-station. Main meters records the electricity supplied to the grid by the project activity as well non project activity WTGs.
- The electricity supplied to the grid will be metered at the main meters at 132 kV level at the RRVPN substation at Amarsagar. Representatives of RRVPN/respective Discom and Enercon will take Joint Meter reading at the main meter at Amarsagard sub-station and sign the meter readings. Simultaneously, the Joint Meter Reading at the 132 kV level of the backup metering system at Temdarai substation (Enercon Sub-station) will also be taken by representatives of RRVPN/respective Discom and Enercon. Main meter reading recorded at Amarsagar sub-station will be used in ER calculation
- Joint meter reading records the values of export & import based on which the net export by all the WTGs (Project as well as non-project) connected to billing metering points at the DISCOM sub-station (Amarsagar) is calculated.
- Based on the monthly JMR reading and the LCS controller reading of Project as well as non-project WTGs, Enercon prepares the breakup sheet which indicates the energy Exported, Imported & net electricity supplied by the individual project owner/investor. This breakup sheet is then submitted to Discom authority as well as the individual investors.
- Based on this breakup sheet the PP raises an invoice and submits to the Discom.
- The Discom authority conducts a thorough review based on the JMR readings, breakup sheets and the invoice raised by individual investors. The audits are conducted by senior official based at the circle office of individual Discom and only after the authorisation of submitted documents/ records



by the superintending engineer of the respective Discom, are the payments released to the individual investor.

- Net electricity supplied to the grid is a calculated value and is used in calculation of emission reduction of the project activity.
- The meters will jointly inspected/tested once in a year as per the terms of the PPA. Joint inspection and testing will also be carried out as and when difference in monthly meter readings exceeds the sum of maximum error as per accuracy class of main and back up meters.

Measurement & Recording of electricity:

-Main and Backup meters measures the electricity (export & Import) on continuous basis and recorded by state utility on monthly basis.

-Panel meter (LCS controller) measures the Gross electricity export by WTG on continuous basis and daily/monthly data can be sourced/recorded from online SCADA system.

QA/QC procedure

- The meters installed at Amarsagar & Temedarai sub-statio 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.
- As per the Power Purchase Agreement entered into with the electricity distribution utility, there will be a set of main meter and backup meter in each feeder. Main and backup meters would be two-way export import meters that measure both export and import of electricity and provide net electricity exported to the grid.
- In case the meters are found to operate outside the permissible limits, the meters will be either replaced immediately or calibrated by authorised representative of state utility.
- If main meter goes defective and the backup meter is working within the permissible limits of error, the consumption recorded by the backup meter will be referred.
- The main and the backup metering systems will be sealed in presence of representatives of Enercon and RRVPN/respective Discom.
- The LCS meter readings recorded at the WTGs are used for allocation of the net electricity exported to the grid from the project activity. The LCS meter readings are archived electronically on hourly basis. Joint meter reading at the Amarsagar substation (State utility sub station) and at the Temdarai substation (Enercon sub station) 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 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 WTGs. 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 or replace the meter immediately.

**Details of metering equipment:**

The metering equipments (main & back up meters) were tested by State Utility on annual basis. There are two main meters at Amarsagar sub-station & 2 backup meters as Temdarai sub-station. The entire main and check meters are Two-way tri-vector meters capable of recording export and import of accuracy class of 0.2s (make-secure meter). Meter details for the all the meters are as follows:-

Sub-Station			Amarsagar		Temdarai	
Meter Description			Main Meter – Line 1	Main Meter – Line 2	Backup Meter – Line 1	Backup Meter – Line 2
Meter Calibration Details	2006	Meter Sr. No	TNU00946	TNU00945	RJB00052	TNU00951
		Date of calibration	15-02-2006	15-02-2006	24-05-2006	24-05-2006
	2007	Meter Sr. No	TNU00946	TNU00945	RJB00052	TNU00951
		Date of calibration	09-03-2007	09-03-2007	11-03-2007	11-03-2007
	2008	Meter Sr. No	TNU00946	TNU00945	RJB00052	TNU00951
		Date of calibration	15-02-2008	15-02-2008	15-02-2008	15-02-2008
		Change of meter	-	-	-	ABB00691
		Date of calibration	-	-	-	15-02-2008
	2009	Meter Sr. No	TNU00946	TNU00945	RJB00052	ABB00691
		Date of calibration	29-01-2009	29-01-2009	30-01-2009	30-01-2009
	2010	Meter Sr. No	TNU00946	TNU00945	RJB00052	ABB00691
		Date of calibration	30-03-2010	30-03-2010	31-03-2010	31-03-2010
	2011	Meter Sr. No	TNU00946	TNU00945	RJB00052	ABB00691
		Date of calibration	26-03-2011	26-03-2011	28-03-2011	28-03-2011
	Due date of calibration		25-03-2012	25-03-2012	27-03-2012	27-03-2012

Table: 3

**Controller (LCS meter) details for revised project activity:-**

S. No.	Name of Customer	Unique Identification number	No. of M/C	Capacity (MW)	Meter Serial No	Meter Make
1	Enercon Wind Farms (Jaisalmer) Pvt. Ltd.	EWFJPL 01	1	0.6	312744	NZR
		EWFJPL 02	1	0.6	312689	NZR
		EWFJPL 03	1	0.6	312732	NZR
		EWFJPL 04	1	0.6	346659	NZR
		EWFJPL 05	1	0.6	346887	NZR
		EWFJPL 06	1	0.6	312698	NZR
		EWFJPL 07	1	0.6	346649	NZR
		EWFJPL 08	1	0.6	347033	NZR
		EWFJPL 09	1	0.6	346653	NZR
		EWFJPL 10	1	0.6	346661	NZR
		EWFJPL 11	1	0.6	284050	NZR
		EWFJPL 12	1	0.6	284067	NZR
		EWFJPL 13	1	0.6	312748	NZR
		EWFJPL 14	1	0.6	284053	NZR
		EWFJPL 15	1	0.6	284071	NZR
		EWFJPL 16	1	0.6	284044	NZR
		EWFJPL 17	1	0.6	310572	NZR
		EWFJPL 18	1	0.6	284052	NZR
		EWFJPL 19	1	0.6	284075	NZR
		EWFJPL 20	1	0.6	284079	NZR
		EWFJPL 21	1	0.6	346655	NZR
		EWFJPL 22	1	0.6	323733	NZR
		EWFJPL 23	1	0.6	346660	NZR
		EWFJPL 24	1	0.6	346651	NZR
		EWFJPL 25	1	0.6	284045	NZR
		EWFJPL 26	1	0.6	284048	NZR
		EWFJPL 27	1	0.6	310578	NZR
		EWFJPL 28	1	0.6	310584	NZR
		EWFJPL 29	1	0.6	310566	NZR
		EWFJPL 30	1	0.6	346738	NZR
		EWFJPL 31	1	0.6	345550	NZR
		EWFJPL 32	1	0.6	346743	NZR
		EWFJPL 33	1	0.6	346737	NZR
		EWFJPL 34	1	0.6	347034	NZR
		EWFJPL 35	1	0.6	346739	NZR
		EWFJPL 36	1	0.6	346648	NZR
		EWFJPL 37	1	0.6	346647	NZR
		EWFJPL 38	1	0.6	346658	NZR
		EWFJPL 39	1	0.6	312736	NZR
		EWFJPL 40	1	0.6	312692	NZR
		EWFJPL 41	1	0.6	346838	NZR
2	BSL Limited	BSL 01	1	0.6	328027	NZR



		BSL 02	1	0.6	328106	NZR
		BSL 03	1	0.6	328104	NZR
		BSL 04	1	0.6	312691	NZR
2	Compucom Software Ltd.	CSL 01	1	0.6	310573	NZR
		CSL 02	1	0.6	310577	NZR
4	LA-OPALA - RG Ltd.	LRGL 01	1	0.6	328096	NZR
5	Desai Brothers Ltd	DBL 01	1	0.6	283654	NZR
		DBL 02	1	0.6	283940	NZR
		DBL 03	1	0.6	283918	NZR
		DBL 04	1	0.6	283923	NZR
		DBL 05	1	0.6	283836	NZR
6	Dinesh Pouches Ltd-I	DPL 01	1	0.6	283834	NZR
		DPL 02	1	0.6	283804	NZR
		DPL 03	1	0.6	283651	NZR
7	NuPower Renewables Ltd.	STFCL 01	1	0.6	283211	NZR
		STFCL 02	1	0.6	283995	NZR
		STFCL 03	1	0.6	283938	NZR
		STFCL 04	1	0.6	283968	NZR
		STFCL 05	1	0.6	283998	NZR
		STFCL 06	1	0.6	1381239	Elster
		STFCL 07	1	0.6	283888	NZR
8	Hindustan Platinum Pvt. Ltd.	HPPL 01	1	0.6	323730	NZR
		HPPL 02	1	0.6	283881	NZR
9	Enercon Wind Farm (Tungbhadra) Pvt Ltd	EWFTPL 01	1	0.6	283939	NZR
		EWFTPL 02	1	0.6	283940	NZR
		EWFTPL 03	1	0.6	283992	NZR
		EWFTPL 04	1	0.6	283870	NZR
		EWFTPL 05	1	0.6	283937	NZR
		EWFTPL 06	1	0.6	283946	NZR
		EWFTPL 07	1	0.6	323700	NZR
		EWFTPL 08	1	0.6	283987	NZR
		EWFTPL 09	1	0.6	283943	NZR
		EWFTPL 10	1	0.6	284129	NZR
		EWFTPL 11	1	0.6	312745	NZR
		EWFTPL 12	1	0.6	283933	NZR
		EWFTPL 13	1	0.6	1381237	Elster
		EWFTPL 14	1	0.6	323726	NZR
		EWFTPL 15	1	0.6	283941	NZR
		EWFTPL 16	1	0.6	1381238	Elster
		EWFTPL 17	1	0.6	283945	NZR
		EWFTPL 18	1	0.6	283990	NZR
		EWFTPL 19	1	0.6	323729	NZR
		EWFTPL 20	1	0.6	310582	NZR
		EWFTPL 21	1	0.6	346742	NZR



		EWFTPL 22	1	0.6	346755	NZR
		EWFTPL 23	1	0.6	347035	NZR
		EWFTPL 24	1	0.6	346869	NZR
		EWFTPL 25	1	0.6	346872	NZR
			90	54.0		

*Table: 4***Controller (LCS meter) details for decommissioned WTGs:-**

S. No.	Name of Customer	No. of M/C	Capacity (MW)	Meter Serial No	Meter Make
1	Venlon Polyester Film Ltd	1	0.6	284102	NZR
2	Venlon Polyester Film Ltd	1	0.6	284189	NZR
3	Texmo Industries Ltd.-I	1	0.6	283957	NZR
4	Dinesh Pouches Ltd-II	1	0.6	283421	NZR
5	Revathi Equipment Ltd.	1	0.6	323867	NZR
6	R. K. Marbles Pvt Ltd	1	0.6	1381242	Elster
7	Dempo Industries Pvt Ltd - I	1	0.6	346782	NZR
		7	4.2		

Table: 5

**Appendix 1: Commissioning Detail of individual WTGs**

S. No.	Name of Customer	No. of M/C	Capacity (MW)	Discom	Commissioning date
1	Enercon Wind Farms (Jaisalmer) Pvt. Ltd.	1	0.6	Jodhpur	26-Mar-04
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	29-Mar-04
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	31-Mar-04
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	18-May-04
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
		1	0.6	Jodhpur	
2	Compucom Software Ltd.	2	1.2	Jaipur	12-Jun-04
					10-Mar-04



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3	Shriram Transport Finance Co Ltd	7	4.2	Ajmer	29-Sep-03
4	BSL Limited	4	2.4	Jaipur	10-Mar-04
5	LA-OPALA - RG Ltd.	1	0.6	Jaipur	10-Mar-04
6	Desai Brothers Ltd	5	3.0	Ajmer	29-Sep-03
7	Hindustan Platinum Pvt. Ltd.	2	1.2	Ajmer	10-Mar-04
8	Dinesh Pouches Ltd-I	3	1.8	Ajmer	29-Sep-03
9	Venlon Polyester Film Ltd	5	3.0	Jodhpur	31-Oct-03
10	Texmo Industries Ltd.-II	3	1.8	Jodhpur	30-Nov-03
11	Dinesh Pouches Ltd-II	3	1.8	Jodhpur	24-Dec-03
12	Texmo Industries Ltd.-II	1	0.6	Jodhpur	10-Mar-04
13	Revathi Equipment Ltd.	4	2.4	Jodhpur	10-Mar-04
14	R.K.Premises Pvt. Ltd.	1	0.6	Jodhpur	3-Mar-04
15	R. K. Marbles Pvt Ltd	7	4.2	Jaipur	3-Mar-04
16	Supreme Buildestates Pvt. Ltd.	1	0.6	Jaipur	3-Mar-04
17	Premier Buildestates Pvt. Ltd.	1	0.6	Jaipur	3-Mar-04
18	Renaissance Asset Management Co. Pvt. Ltd.	2	1.2	Jaipur	21-Jun-04
19	Texmo Precision Casting	3	1.8	Ajmer	30-Jun-04
20	Dempo Industries Pvt Ltd - I	1	0.6	Ajmer	29-Sep-03
		97	58		

Table: 6