

44 MW Bundled Wind Power Project in Maharashtra managed by Enercon India Limited.

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MONITORING REPORT

Monitoring Period: 01/04/2006 to 31/05/2009

(Inclusive of both days)

Version: 1.0

Date: 14/12/2009

Enercon (India) Limited

Enercon Tower, A-9, Veera Industrial Estate, Veera Desai Road,

Andheri West - 400053

Mumbai (Maharashtra)

Project: 44 MW Bundled Wind Power Project in Maharashtra managed by Enercon India Limited.

Version: Version 1.0

Date: 14 December 2009

Standard Followed: Validated under VCS 2007.1

Project Participants:

Name of Party involved (host) indicates a host Party)	Private and/or public entity(ies) project participants (*) (as applicable)	Kindly indicate if the Party involved wishes to be considered as project participant (Yes/No)
Government of India (Host)	Enercon (India) Ltd	No

Project Location:

The Project is spread across Patan, Shirala, Sinnar and Akole Taluka of Satara, Sangli, Nasik and Ahmednagar Districts in state of Maharashtra.

Monitoring Periods

Start: 1 Apr 2006

End: 31 May 2009 (*Inclusive of both days*)

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Annex I: Contact Information on Participants in the Project Activity

A. Project Description:

The Project activity is located across Satara, Sangli, Nasik, and Ahmednagar District in the state of Maharashtra in India. The machines are provided, operated and maintained by Enercon (India) Ltd. It involves the installation of 55 turbines of Enercon make (E-48), each of which has a rated output of 800kW, providing a total capacity of 44 MW. The net electricity supplied by the project activity during the monitoring period is 134895.879 which is the conservative value after considering the apportioning for the vintages Apr-06 to Dec-06 and Jan-07 to Dec-07. The value as per the credit note is 135374. For the purpose of being conservative, the PP hereby chooses to use the conservative value of net generation between the apportioned net generation and generation in the Credit notes. A minor difference in the net generation has been observed as per the apportioning method and in the Credit note. This is due to the difference of the time of meter reading. For the purpose of apportioning, the reading of the panel meter has been taken. The panel meter reading is taken at 2400hrs on the last day of the month whereas, EB officials come on a random day in the first week of month to take the reading. For the vintages Apr-06 to Dec-06 and Jan-07 to Dec-07, we have considered apportioned values of net generation and for vintage Jan-08 to Dec-08 and Jan-09 to May-09 we have considered the values of net generation from credit notes as they were conservative figure.MWh.

The purpose of the project activity is to generate electricity using wind power resources in the region and provide reliable, renewable power to the Maharashtra state electricity grid, which is part of the NEWNE grid. The total GHG emission reductions for the entire monitoring period are 122200 tCO₂e. The project contributes to sustainability in the region by reducing pollution, creating employment opportunities, improving the livelihoods of the local people. At a larger scale, the project assists Maharashtra and ultimately India in stimulating and accelerating the commercialization of grid-connected renewable energy technologies and markets in India.

B. Project Location:

The latitude & longitude, unique identification details of individual machines and dates of commissioning are given in the following table:

S.N o.	Customers Name	Machine Capacity (MW)	Site	Taluka	District	Latitude	Longitude
1	G. B. Rubber Products	1.6	Kadvekhurd	Patan	Satara	17°33'15" to 17°33'56"	73°55'28" to 73°56'51"
2	Atlas Tours & Travels Pvt. Ltd	0.8	Kadvekhurd	Patan	Satara	17°33'15" to 17°33'56"	73°55'28" to 73°56'51"
3	Shah Lulla Estate Developers	0.8	Kadvekhurd	Patan	Satara	17°33'15" to 17°33'56"	73°55'28" to 73°56'51"
4	Liberty Oil Mills Ltd.	2.4	Kadvekhurd	Patan	Satara	17°33'15" to 17°33'56"	73°55'28" to 73°56'51"
4	Liberty Oil Mills Ltd.	1.6	Varekarwadi	Patan	Satara	17°11'47.6" 17°11'51.2"	73°59'12.7" 73°59'13.5"
5	Paceman Sales Promotion P. Ltd.	0.8	Bhambarwadi	Shirla	Sangli	17°8'36.5"	73°55'14.3"
6	Delta Enterprises	2.4	Bhambarwadi	Shirla	Sangli	17°7'11.3" 17°8'35.6" 17°8'28.5"	73°56'5.7" 73°55'2.8" 73°55'21.7"
7	Shreem Capacitors Pvt. Ltd.	3.2	Bhambarwadi	Shirla	Sangli	17°8'52.1" 17°8'58.2" 17°9'2.8"	73°55'10.1" 73°55'6" 73°55'5.4"

						17°9'34.8"	73°55'6.1"
8	Kishor Food Products P. Ltd	0.8	Bhambarwadi	Shirla	Sangli	17°8'53.2"	73°54'57.7"
9	Mahanagar Developers	7.2	Bhambarwadi	Shirla	Sangli	17°9'7.6" 17°9'14.7" 17°9'19.1" 17°9'24.6" 17°9'28.2" 17°9'14.5" 17°9'10.8" 17°9'10.9" 17°8'10.9"	73°55'5.8" 73°55'2.5" 73°55'3.6" 73°55'6" 73°55'6.7" 73°55'18.1" 73°55'36.6" 73°55'3.5" 73°56'0.5"
9	Mahanagar Developers	0.8	Panchpatta	Sinnar	Nasik	19°39'12.8"	73°48'41.4"
10	Mr. J. P. Patel	0.8	Panchpatta	Sinnar	Nasik	19°45'53.4"	73°50'32.8"
11	Mr. C. P. Patel	0.8	Panchpatta	Sinnar	Nasik	19°45'17.1"	73°50'31.4"
12	Mr. V. V. Patel	0.8	Panchpatta	Sinnar	Nasik	19°44'58"	73°50'13.1"
13	Mr. J. V. Patel	0.8	Panchpatta	Sinnar	Nasik	19°45'12.7"	73°50'29.2"
14	Mr. S. V. Patel	0.8	Panchpatta	Sinnar	Nasik	19°45'46.9"	73°50'34.1"
15	Mr. V. L. Patel	0.8	Panchpatta	Sinnar	Nasik	19°44'33.5"	73°50'29.2"
16	Laxmi Narayan	0.8	Panchpatta	Sinnar	Nasik	19°45'2.9"	73°50'12.6"

	Best Chiwda						
17	Om Shanti Wind Farms P. Ltd	0.8	Aundhewadi	Sinnar	Nasik	19°45'7.7"	73°50'12.8"
18	New Sahyadri Industries Ltd.	1.6	Panchpatta	Akole	Ahmednagar	19°44'24.3" 19°44'28.2"	73°50'40.8" 73°50'35.7"
19	Mr. P. L. Patel	0.8	Panchpatta	Akole	Ahmednagar	19°41'7.2"	73°48'48.2"
20	Elpro International	0.8	Panchpatta	Akole	Ahmednagar	19°41'41.8"	73°48'53.3"
21	Prachar Energy	1.6	Panchpatta	Akole	Ahmednagar	19°39'17.8" 19°39'22.7"	73°48'42.7" 73°48'47.5"
22	Panama Wind Energy Pvt. Ltd.	1.6	Panchpatta	Akole	Ahmednagar	19°41'16.6" 19°41'20.6"	73°48'53" 73°48'55.6"
23	International Conveyors Ltd.	0.8	Panchpatta	Akole	Ahmednagar	19°41'37"	73°48'54.3"
24	Metalfab Hightech Private Limited	0.8	Panchpatta	Akole	Ahmednagar	19°41'11.9"	73°48'51.6"
25	Gargi Construction Co. Pvt. Ltd.	1.6	Panchpatta	Akole	Ahmednagar	19°41'26.1" 19°41'31.1"	73°48'55.1" 73°48'54.5"
26	Mohite & Mohite	2.4	Panchpatta	Akole	Ahmednagar	19°42'15.6"	73°49'6.4"

					gar	19°42'20.5"	73°49'15.9"
						19°42'25.6"	73°49'15.3"
27	Indiana Engineering Works (Bombay) P. Ltd.	1.6	Panchpatta	Akole	Ahmednagar	19°39'27.5"	73°48'49"
						19°39'32.4"	73°48'49.8"
28	Welpack Industries Ltd.	0.8	Panchpatta	Akole	Ahmednagar	19°39'7.9"	73°48'37"
29	Sunilkumar Ramanlal Shah	0.8	Panchpatta	Akole	Ahmednagar	19°44'38.6"	73°50'22.5"

The commissioning dates of the individuals WECs with locations numbers are provided below:

Serial No	Customer Name	Individual Capacity	Loc No.	Capacity	Date of Commissioning
1	G. B. Rubber Products	0.8	1	1.6	14-Feb-06
2	G. B. Rubber Products	0.8	2		14-Feb-06
3	Shah Lulla Estate Developers	0.8	4	0.8	14-Feb-06
4	Liberty Oil Mills Ltd.	0.8	6	2.4	7-Feb-06
5	Liberty Oil Mills Ltd.	0.8	7		7-Feb-06
6	Liberty Oil Mills Ltd.	0.8	8		7-Feb-06

7	Liberty Oil Mills Ltd.	0.8	1		8-Feb-06
8	Liberty Oil Mills Ltd.	0.8	2	1.6	8-Feb-06
9	Paceman Sales Promotion P. Ltd.	0.8	36	0.8	22-Mar-06
10	Delta Enterprises	0.8	37		15-Jun-06
11	Delta Enterprises	0.8	38	1.6	15-Jun-06
12	Delta Enterprises	0.8	19	0.8	22-Mar-06
13	Mahanagar Developers	0.8	53		5-Jan-07
14	Mahanagar Developers	0.8	54		5-Jan-07
15	Mahanagar Developers	0.8	55		5-Jan-07
16	Mahanagar Developers	0.8	56		5-Jan-07
17	Mahanagar Developers	0.8	57		5-Jan-07
18	Mahanagar Developers	0.8	61	4.8	5-Jan-07
19	Mahanagar Developers	0.8	62		6-Mar-07
20	Mahanagar Developers	0.8	63		6-Mar-07
21	Mahanagar Developers	0.8	60	2.4	6-Mar-07
22	Mahanagar Developers	0.8	30	0.8	28-Feb-07
23	Kishor Food Products P. Ltd.	0.8	47	0.8	10-Dec-08
24	Mr. J. P. Patel	0.8	95	0.8	29-Mar-07
25	Mr. C. P. Patel	0.8	84	0.8	31-Mar-07
26	Mr. V. V. Patel	0.8	80	0.8	31-Mar-07
27	Mr. J. V. Patel	0.8	83	0.8	29-Mar-07
28	Mr. S. V. Patel	0.8	94	0.8	29-Mar-07
29	Mr. V. L. Patel	0.8	76	0.8	29-Mar-07
30	Laxmi Narayan Best Chiwda	0.8	81	0.8	29-Mar-07
31	New Sahyadri Industries Ltd.	0.8	74		27-Jan-07
32	New Sahyadri Industries Ltd.	0.8	75	1.6	27-Jan-07

33	Mr. P. L. Patel	0.8	45	0.8	6-Feb-07
34	Elpro International	0.8	52	0.8	30-Dec-07
35	Prachar Energy	0.8	31	1.6	3-Mar-07
36	Prachar Energy	0.8	32		3-Mar-07
37	Panama Wind Energy Pvt. Ltd.	0.8	47	1.6	30-Dec-06
38	Panama Wind Energy Pvt. Ltd.	0.8	48		30-Dec-06
39	International Conveyors Ltd.	0.8	51	0.8	30-Dec-06
40	Shreem Capacitors Pvt. Ltd.	0.8	50	3.2	10-Dec-08
41	Shreem Capacitors Pvt. Ltd.	0.8	51		10-Dec-08
42	Shreem Capacitors Pvt. Ltd.	0.8	52		10-Dec-08
43	Shreem Capacitors Pvt. Ltd.	0.8	58		10-Dec-08
44	Metalfab Hightech Private Limited	0.8	46	0.8	6-Feb-07
45	Atlas Tours & Travels Pvt. Ltd.	0.8	5	0.8	7-Feb-06
46	Om Shanti Wind Farms P. Ltd.	0.8	82	0.8	31-Mar-07
47	Gargi Construction Co. Pvt. Ltd.	0.8	49	1.6	30-Dec-06
48	Gargi Construction Co. Pvt. Ltd.	0.8	50		30-Dec-06
49	Mohite & Mohite	0.8	59	2.4	30-Dec-06
50	Mohite & Mohite	0.8	60		30-Dec-06
51	Mohite & Mohite	0.8	61		30-Dec-06
52	Indiana Engineering Works (Bombay) P. Ltd.	0.8	33	1.6	3-Mar-07
53	Indiana Engineering Works (Bombay) P. Ltd.	0.8	34		3-Mar-07
54	Welpack Industries Ltd.	0.8	29	0.8	28-Feb-07
55	Sunilkumar Ramanlal Shah	0.8	77	0.8	30-Mar-08

C. Project Performance:

The project has supplied 134.895 GWh of electricity to the grid in the monitoring period, which indicates that the project has performed reasonably during the monitoring period (1 Apr 2006 to 31 May 2009). The details of the net electricity supplied to the grid for the monitoring period is detailed as follows:

Formatiert: Nicht Hervorheben

Year	Net Electricity Supplied (in GWh)
01 April to 31 December 2006	13.391
01 May 2007 to 31 December 2007	33.346
01 January 2008 to 31 December 2008	68.381
01 January 2009 to 31 May 2009	19.776
Total Electricity exported (in GWh) for the monitoring period	134.895

The reason for the major breakdown that occurred for the period Jul-07 to Jan-08 was the local problem where the local villagers blocked the ways to site and substation due to which the site person were not able to access the site and the site was shut down.

The details of major breakdown occurred during the monitoring period of Apr-06 to May-09 are as follows:

S. No.	Loc No	Name of Customers	WEG Capacity (kW)	Duration
1	30	Mahanagar Developers	0.8	Jul-07 to Jan-08
2	95	Mr. J. P. Patel	0.8	Jul-07 to Jan-08
3	84	Mr. C. P. Patel	0.8	Jul-07 to Jan-08
4	80	Mr. V. V. Patel	0.8	Jul-07 to Jan-08
5	83	Mr. J. V. Patel	0.8	Jul-07 to Jan-08
6	94	Mr. S. V. Patel	0.8	Jul-07 to Jan-08
7	76	Mr. V. L. Patel	0.8	Jul-07 to Jan-08
8	81	Laxmi Narayan Best Chiwda	0.8	Jul-07 to Jan-08
9	74	New Sahyadri Industries Ltd.	0.8	Jul-07 to Jan-08

10	75	New Sahyadri Industries Ltd.	0.8	Jul-07 to Jan-08
11	45	Mr. P. L. Patel	0.8	Jul-07 to Jan-08
12	52	Elpro International	0.8	Jul-07 to Jan-08
13	31	Prachar Energy	0.8	Jul-07 to Jan-08
14	32	Prachar Energy	0.8	Jul-07 to Jan-08
15	47	Panama Wind Energy Pvt. Ltd.	0.8	Jul-07 to Jan-08
16	48	Panama Wind Energy Pvt. Ltd.	0.8	Jul-07 to Jan-08
17	51	International Conveyors Ltd.	0.8	Jul-07 to Jan-08
18	82	Om Shanti Wind Farms P. Ltd.	0.8	Jul-07 to Jan-08
19	49	Gargi Construction Co. Pvt. Ltd.	0.8	Jul-07 to Jan-08
20	50	Gargi Construction Co. Pvt. Ltd.	0.8	Jul-07 to Jan-08
21	59	Mohite & Mohite	0.8	Jul-07 to Jan-08
22	60	Mohite & Mohite	0.8	Jul-07 to Jan-08
23	61	Mohite & Mohite	0.8	Jul-07 to Jan-08
24	33	Indiana Engineering Works (Bombay) P. Ltd.	0.8	Jul-07 to Jan-08
25	34	Indiana Engineering Works (Bombay) P. Ltd.	0.8	Jul-07 to Jan-08
26	29	Welpack Industries Ltd.	0.8	Jul-07 to Jan-08
27	46	Metalfab Hightech Private Limited	0.8	Jul-07 to Jan-08
28	63	Mahanagar Developers	0.8	Jul-08 to May-09

D. Project Reference:

Title of the project : “44 MW Bundled Wind Power Project in Maharashtra managed by Enercon India Limited.
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Project activity scale : Large

Sectoral scope	: 1, Energy Industries (renewable/- non renewable sources)
Type and Category	: “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”
Approved baseline Methodology	: ACM 0002 Version 10
Approved monitoring methodology	: ACM 0002 Version 10

E. Monitoring Information:

Substation Details.

Sr No.	Customer name	Site	Sub Project Capacity	EIL Sub Station	EB Sub Station
1	G. B. Rubber Products	Kadvekhurd	1.60	NA	Satara MIDC S/S
2	Shah Lulla Estate Developers	Kadvekhurd	0.80	NA	Satara MIDC S/S
3	Liberty Oil Mills Ltd.	Varekarwadi	1.60	NA	Kale S/S
3	Liberty Oil Mills Ltd.	Kadvekhurd	2.40	NA	Satara MIDC S/S
4	Paceman Sales Promotion P. Ltd.	Bhambarwadi	0.80	Bhamberwadi	Bhamberwadi S/S
5	Delta Enterprises	Bhambarwadi	2.40	Bhamberwadi	Bhamberwadi S/S
6	Mahanagar Developers	Bhambarwadi	8.00	Bhamberwadi	Bhamberwadi S/S
7	Kishor Food Products P. Ltd.	Bhambarwadi	0.80	Bhamberwadi	Bhamberwadi S/S
8	Mr. J. P. Patel	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
9	Mr. C. P. Patel	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
10	Mr. V. V. Patel	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
11	Mr. J. V. Patel	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
12	Mr. S. V. Patel	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
13	Mr. V. L. Patel	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
14	Laxmi Narayan Best Chiwda	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S

15	New Sahyadri Industries Ltd. 01 02	Panchpatta	1.60	Bhandardarawadi	Panchpatta S/S
16	Mr. P. L. Patel	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
17	Elpro International	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
18	Prachar Energy	Panchpatta	1.60	Bhandardarawadi	Panchpatta S/S
19	Panama Wind Energy Pvt. Ltd.	Panchpatta	1.60	Bhandardarawadi	Panchpatta S/S
20	International Conveyors Ltd.	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
21	Shreem Capacitors Pvt. Ltd.	Bhambarwadi	3.20	Bhamberwadi	Bhamberwadi S/S
22	Metalfab Hightech Private Limited	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
23	Atlas Tours & Travels Pvt. Ltd.	Kadvekhurd	0.80	NA	Satara MIDC S/S
24	Om Shanti Wind Farms P. Ltd.	Aundhewadi	0.80	Bhandardarawadi	Panchpatta S/S
25	Gargi Construction Co. Pvt. Ltd.	Panchpatta	1.60	Bhandardarawadi	Panchpatta S/S
26	Mohite & Mohite	Panchpatta	2.40	Bhandardarawadi	Panchpatta S/S
27	Indiana Engineering Works (Bombay) P. Ltd.	Panchpatta	1.60	Bhandardarawadi	Panchpatta S/S
28	Welpack Industries Ltd.	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
29	Sunilkumar Ramanlal Shah	Panchpatta	0.80	Bhandardarawadi	Panchpatta S/S
	Total		44		

In the starting of the project activity the metering has been done on the site and the substation was Panumbre which is around 20 kms from the Bhambarvadi site, after the charging of Bhambarwadi substation on 23/12/2006 the substation has been changed from Panumbre to Bhambarvadi. There is no change in metering system only substation was changed.

For Bhambarwadi

Name of PPs	Loc. No.	Apr-06 to Mar-07	Apr-07 to May-07	Apr-07 to May-09	Jun-07 to May-09
M/s Delta Enterprises, Crescent Chambers, 1ST Floor Tamarind Lane, Fort, Mumbai-400023	37	Panumbre Feeder		Feeder 1	
M/s Delta Enterprises, Crescent Chambers, 1ST Floor Tamarind Lane, Fort, Mumbai-400023	38	Panumbre Feeder		Feeder 1	
M/s Delta Enterprises, Crescent Chambers, 1ST Floor Tamarind Lane, Fort, Mumbai-400023	19	Panumbre Feeder		Feeder 2	
M/s Paceman Sales promotion Pvt Ltd 207, Maharashi Devendra Road, 4th Floor, Room No. 80, Kolkata-700007	36	Panumbre Feeder		Feeder 1	
M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	53	Panumbre Feeder	Feeder 1		Feeder 3
M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	55	Panumbre Feeder	Feeder 1		Feeder 3
M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	56	Panumbre Feeder	Feeder 1		Feeder 3
M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	57	Panumbre Feeder	Feeder 1		Feeder 3
M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	61	Panumbre Feeder	Feeder 1		Feeder 3
M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	63	Panumbre Feeder		Feeder 1	
M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	54	Panumbre Feeder	Feeder 1		Feeder 3
M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	62	Panumbre Feeder	Feeder 1		Feeder 3

M/s Mahanagar Developers, San Mahu complex, opp. poona club, 5, bundgarden road, Pune-1.	60	Panumbre Feeder	Feeder 1		Feeder 3
M/s Shreem Capacitors Private Limited	50				Feeder 3
M/s Shreem Capacitors Private Limited	51				Feeder 3
M/s Shreem Capacitors Private Limited	52				Feeder 3
M/s Shreem Capacitors Private Limited	58				Feeder 3
M/s Kishore Food Products Private Ltd.	47				Feeder 3

For Panchpatta

Name of PPs	Loc No.	Jan-07 to May-07	Jan-08 to Feb-08	Jan-08 to May-09	Mar-08 to May-09	Mar-08 to May-09
Panama wind energy Pvt Ltd	47-48	Feeder 1		Feeder 1		
Gargi Construction	49-50	Feeder 1		Feeder 1		
International conveyors Ltd	51	Feeder 1		Feeder 1		
Elpro international Ltd	52	Feeder 1		Feeder 1		
Mohite & Mohite	59-61	Feeder 1		Feeder 1		
Sahayadri Industries Ltd	74-75	Feeder 1	feeder 4		feeder 4	
P L Patel	45	Feeder 1		Feeder 1		
Metalfab Hightech	46	Feeder 1		Feeder 1		
Welpack Industries	29	Feeder 1	Feeder 1		feeder 4	
Mahanagar Developers	30	Feeder 1	Feeder 1		feeder 4	
Prachar Energy	31-32	Feeder 1	Feeder 1		feeder 4	
Indiana engineering wors	33-34	Feeder 1	Feeder 1		feeder 4	
VL Patel	76	Feeder 1	feeder 4			Feeder 6
Laxmi Narayan	81	Feeder 1	feeder 4			Feeder 6

JV Patel	83	Feeder 1				Feeder 6
SV Patel	94	Feeder 1	feeder 4			Feeder 6
JP Patel	95	Feeder 1	feeder 4			Feeder 6
VV Patel	80	Feeder 1	feeder 4			Feeder 6
Om Shanti Windfarms	82	Feeder 1	feeder 4			Feeder 6
CP Patel	84	Feeder 1	feeder 4			Feeder 6
Sunilmumar Ramanlal Shah	77					Feeder 6

a) Purpose of monitoring: The main purpose of the monitoring is to check the electricity exported to the NEWNE grid from the project under consideration.

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

$EG_{\text{export}, y}$, $EG_{\text{import}, y}$, Eg_y

c) Origin of the data: Electricity supplied by the project activity to the grid as per energy generation certificates given by Maharashtra State Electricity Distribution Co. Ltd (MSEDCL)

d) Monitoring, modelling, measurement or calculation approaches:

- *Measurement or Calculation Approaches:*

- The generated electricity is measured through a two step procedure wherein the first metering is carried out at the controller of the machine with on-board meter. The monitoring of all these wind turbines is done from a common monitoring station as a part of central monitoring system. The system consists of a state-of-the-art controlling and monitoring and well trained staff personnel of O&M contractor, Enercon India Limited, are always present on site to monitor various parameters of power generation and deal with any problems related to generation, transmission or maintenance. $EG_{\text{gross}, y}$ is the electricity generated

from an individual wind turbine measured through its panel meter. The summation of total Electricity exported and imported from wind turbine of the project proponent from individual meters (panel meter) in MWh is presented as

$$\sum_{0}^n EG_{\text{gross export, y}} \text{ and } EG_{\text{gross import, y}}$$

and the summation of total Electricity exported and imported (panel data) from the other wind turbines attached to the common MSEDCL meter at the sub-station in MWh is presented as

$$\sum_{0}^n EG_{\text{total import}} \text{ and } EG_{\text{total export}}$$

A ratio based on these two set of measured values would be used for apportioning the net electricity supplied to the NEWNE grid by the project activity. The second metering is carried out at grid interconnection point (sub station) wherein the Joint Meter Reading (JMR) is carried out on last day of every month in presence of the representatives of the project proponent & the state electricity utility (MSEDCL). This JMR is used for calculation of the amount of electricity supplied to the grid against which the utility makes the payment to the project proponent. The JMR gives both the “export” ($EG_{JMR, \text{export}}$) and “import” ($EG_{JMR, \text{import}}$) of the electricity to/ from the NEWNE grid. There is a single meter which gives both the export and import values, this metered reading would give value net of line losses and auxiliary consumption. Further, as there is a common MSEDCL joint meter for multiple project proponents, the joint meter reading (JMR) is taken every month by MSEDCL personnel reflects the cumulative monthly generation for all wind turbines connected to this MSEDCL meter. The apportioning of electricity generated from the various wind turbines is done by EIL, based on the power generation from the individual wind turbines connected to this MSEDCL meter. O&M personnel from EIL prepare a monthly report on generation and consumption. This report contains details of power exported/imported to/from the grid by each of the wind turbines connected. This apportioned value is then used by the project proponent to raise invoice from MSEDCL.

EG_{export} the electricity exported to the grid by the project activity is calculated as follows:

$$EG_{\text{export}} = EG_{JMR, \text{export}} \times \frac{\sum_{0}^n EG_{\text{gross export}, y}}{\left(\sum_{0}^n EG_{\text{gross export}, y} + \sum_{0}^n EG_{\text{total export}, y} \right)}$$

EG_{import} the electricity drawn from the grid by the project activity is calculated as follows:

$$EG_{\text{import}} = EG_{JMR, \text{import}} \times \frac{\sum_{0}^n EG_{\text{gross import}, y}}{\left(\sum_{0}^n EG_{\text{gross import}, y} + \sum_{0}^n EG_{\text{total import}, y} \right)}$$

EG_y , the net electricity supplied to the grid by the project activity, is calculated as follows:

$$EG_y = EG_{\text{export}} - EG_{\text{import}}$$

The meters located at the grid sub-station are sealed, maintained and calibrated by the state electricity utility. The meters are tested and maintained as per the Metering Code for

Maharashtra. Additionally, each wind turbine is equipped with an integrated electronic meter. The electricity generated is recorded 24 hours.

Net electricity supplied to the grid will be measured by the two-way export trivector meter. The Net electricity is recorded as following:

$$(Net\ Electricity = Total\ Export - Total\ Import)$$

The procedures for metering and meter reading will be as per the provisions of the power purchase agreement.

Example of apportioning for the month of May 09 for feeder 3 at Kadvekhurd for 8 machines is shown below :

						Total EB Readings Taken from monthly credit notes for the month May-09	
S.No	Name of customers attached at Kadvekhurd	Number of WEGs	DOC	Loc No	Panel Generation (Ai)	Export (B)	Import(C)
1	M/s Liberty Oil Mill	1	7-Feb-06	6	125913	1031542	298.35
2	M/s Liberty Oil Mill	1	7-Feb-06	7	128767	1031542	298.35
3	M/s Liberty Oil Mill	1	7-Feb-06	8	109927	1031542	298.35
4	M/s G.B.Rubber Products	1	14-Feb-06	1	195944	1031542	298.35
5	M/s G.B.Rubber Products	1	14-Feb-06	2	181149	1031542	298.35
6	M/s Atlas Tours & travels Pvt Ltd.	1	7-Feb-06	5	139005	1031542	298.35
7	M/s Shahlulla estate developer Ltd.	1	14-Feb-06	4	181406	1031542	298.35
8	M/s Fashion suiting	1	14-Feb-06	3	165878	1031542	298.35
					1227989		

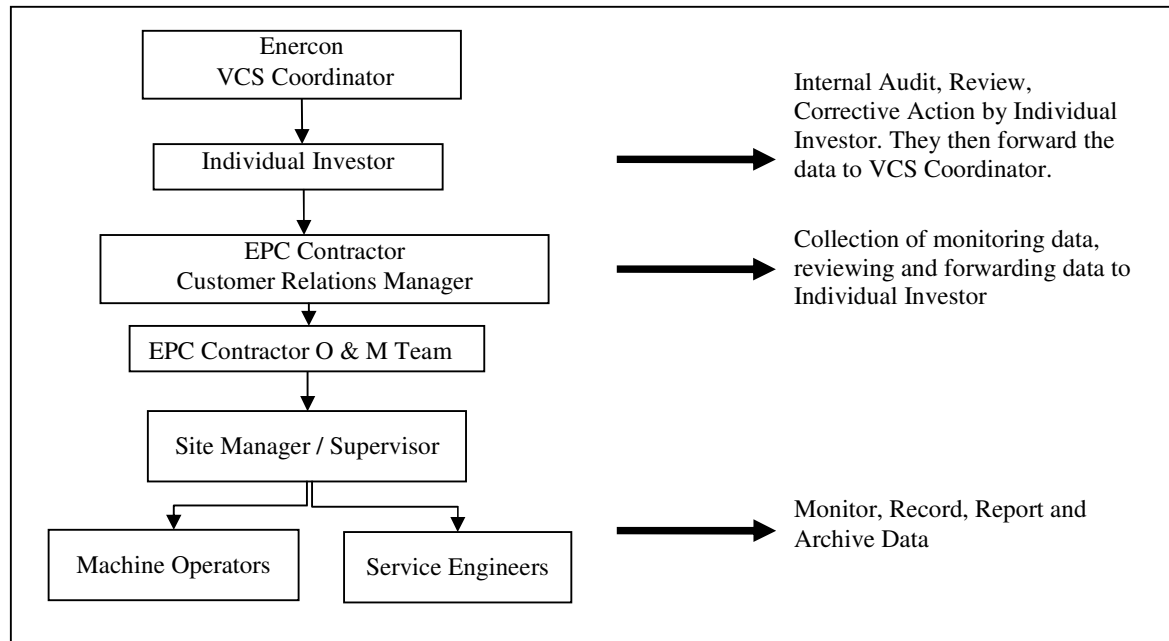
Individual customers break up after apportioning calculation:-

S.No	Name of customers attached at Kadvekhurd	Number of WEGs	Loc No	Commissioning date	Panel Generation	Individual customers break up after apportioning calculation		
						Export (Di)=Ai*B/ Σ Ai	Import (Ei)=Ai*C/ Σ Ai	Net Export (Fi)= (Di)-(Ei)
1	M/s Liberty Oil Mill	1	6	7-Feb-06	125913	105770.2	30.591596	105739.6
2	M/s Liberty Oil Mill	1	7	7-Feb-06	128767	108167.6	31.284999	108136.3
3	M/s Liberty Oil Mill	1	8	7-Feb-06	109927	92341.52	26.707666	92314.81
4	M/s G.B.Rubber Products	1	1	14-Feb-06	195944	164598	47.606202	164550.4
5	M/s G.B.Rubber Products	1	2	14-Feb-06	181149	152169.8	44.011635	152125.8
6	M/s Atlas Tours & travels Pvt Ltd.	1	5	7-Feb-06	139005	116767.8	33.772405	116734
7	M/s Shahlulla estate developer Ltd.	1	4	14-Feb-06	181406	152385.7	44.074076	152341.6
8	M/s Fashion suiting	1	3	14-Feb-06	165878	139341.8	40.301421	139301.5
					1227989			

The procedures for metering and meter reading will be as per the provisions of the power purchase agreement signed between PPs and MSEDCL.

e) Monitoring times and periods, considering the needs of intended users: The Net electricity supplied to the grid is recorded monthly by taking a Joint Meter Reading (JMR) in the presence of officials from off-taking Utility (MSEDCL) and Enercon as O&M contractor, on behalf of project sponsor. The Joint meter reading contains the value of energy imported and exported and the net export to the grid during the recording period. This Joint meter reading is certified by the Executive engineer of utility and by Enercon Officials.

f) Monitoring roles and responsibilities: The sole parameter for monitoring is the electricity supplied to the grid. The Project is operated and managed by Enercon (India) Ltd. The operational and management structure implemented by Enercon is as follows:



g) Managing Data Quality:

Data management is as per the ISO certification standards.

1. The data collection is ongoing process.
2. Two-way meter will be calibrated on regular basis (as per the requirement stipulated by SEB). Project Head would be responsible for regular calibration of the meter.
3. SCADA system connected to individual WECs for online monitoring.
4. The invoices are cross-checked with invoices raised to the MSEDCL.

h) Annual maintenance and major breakdown detail:-

Description of maintenance intervals: On project site there is a schedule for annual maintenance for the entire machine. There are four types of maintenance and machine has to stop for defined time period for maintenance as follows:

- 1) Visual maintenance : average 3 to 4 hr stop of WEC
- 2) Grease maintenance : average 3 to 4 hr stop of WEC
- 3) Electrical maintenance: average 16 to 20 hr stop of WEC
- 4) Mechanical maintenance: average 16 to 20 hr stop of WEC

Cycle for annual maintenance is according to following picture:

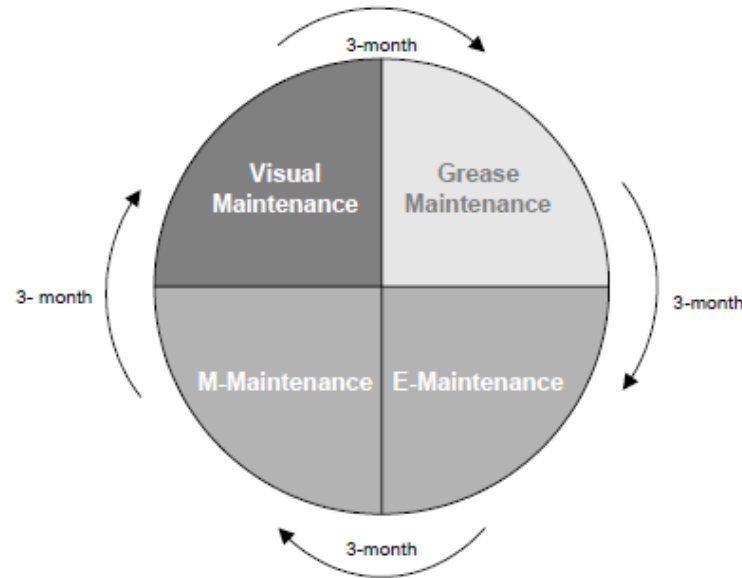


Fig 2.0: Annual Maintenance cycle

Maintenance comprises not only activities to determine and assess a wind turbine's actual state but also those to keep the system's nominal state. Repair work necessary to reconstruct the nominal state are not, however, part of these maintenance instructions.

F. Monitoring Parameters:

The monitoring parameter is given in the following table:

Data / Parameter:	EG, Export
Data unit:	MWh (Mega-watt hour)
Description:	Electricity exported to the grid by the Project activity.
Source of data to be	Electricity exported to the grid as per the credits notes issued by

used:	MSEDCL.
Value of data	1 April 2006 to 31 December 2006 = 13473.268 MWh 1 January 2007 to 31 December 2007 = 33990.664 MWh 1 January 2008 to 31 December 2008 = 68432.759 MWh 1 January 2009 to 31 May 2009 = 19801.113 MWh
Brief description of measurement methods and procedures to be applied:	Net electricity exported to the grid will be calculated based on the measured values of “export” and “import” on the MSEDCL meter, where joint reading is taken by EIL representative and MSEDCL officials. Since this meter is common to project activity and other wind turbines that are not under this project activity, the apportioning of net electricity would be done based on electricity generated from individual wind turbines. Apportioning is used to calculate EB export of individual customer as described in section E above. The procedures for metering and meter reading will be as per the provisions of the power purchase agreement made between the customers and MSEDCL. Refer Section- E for an illustration of the provisions for measurement methods.
QA/QC procedures applied:	QA/QC procedures will be as implemented by MSEDCL pursuant to the provisions of the power purchase agreement and the Metering Code of Maharashtra and there will be no additional QA/QC procedures. Refer Section- E for an illustration of the provisions for QA/QC procedures.
Any comment:	

Data / Parameter:	EG, Import
Data unit:	MWh (Mega-watt hour)
Description:	Electricity imported to the grid by the Project activity.
Source of data to be used:	Electricity imported to the grid as per the credits notes issued by MSEDCL.
Value of data	1 April 2006 to 31 December 2006 = 13.35523 MWh 1 January 2007 to 31 December 2007 = 23.3971 MWh

	1 January 2008 to 31 December 2008 = 51.23974 MWh 1 January 2009 to 31 May 2009 = 24.75329 MWh
Brief description of measurement methods and procedures to be applied:	Net electricity imported (i.e. 32.3319 MWh) to the grid will be calculated based on the measured by the values of “export” and “import” on the MSEDCL meter, where joint reading is taken by EIL representative and MSEDCL officials. Since this meter is common to project activity and other wind turbines that are not under this project activity, the apportioning of net electricity would be done based on electricity generated from individual wind turbines. Apportioning is used to calculate EB import of individual customer as described in section E. The procedures for metering and meter reading will be as per the provisions of the power purchase agreement made between the investors and MSEDCL. Refer Section- E for an illustration of the provisions for measurement methods.
QA/QC procedures applied:	QA/QC procedures will be as implemented by MSEDCL pursuant to the provisions of the power purchase agreement and the Metering Code of Maharashtra and there will be no additional QA/QC procedures. Refer Section- E for an illustration of the provisions for QA/QC procedures.
Any comment:	

Data / Parameter:	EG_y Net
Data unit:	MWh (Mega-watt hour)
Description:	Net electricity supplied to the grid by the Project.
Source of data to be used:	Calculated from EG _{export} and EG _{import} as =(EG _{export} – EG _{import})
Value of data	1 April 2006 to 31 December 2006 = 13391.411 MWh 1 January 2007 to 31 December 2007 = 33346.587 MWh 1 January 2008 to 31 December 2008 = 68381.519 MWh

	1 January 2009 to 31 May 2009 = 19776.360 MWh
Brief description of measurement methods and procedures to be applied:	Net electricity supplied to the grid will be calculated by the two-way export Tri-vector meter. The Net electricity is recorded as following: (<i>Net Electricity = Net Export – Net Import</i>) The procedures for metering and meter reading will be as per the provisions of the power purchase agreement made between customers and state electricity board.
QA/QC procedures applied:	QA/QC procedures will be as implemented by MSEDCL pursuant to the provisions of the power purchase agreement and there will be no additional QA/QC procedures.
Any comment:	

Data / Parameter:	EG, Gross,y
Data unit:	MWh
Description:	Total electricity generation by the wind mills during the year y
Source of data to be used:	Controller attached with each WEC.
Value of data applied for the purpose of calculating expected emission reductions	187835.52
Description of measurement methods and procedures to be applied:	This data is the controller data for vintage Apr-06 to May 09
QA/QC procedures to be applied:	As per the procedures described in the technical manual of WEG panel meter. The meters used are auto calibrated to ensure accuracy of data.
Any comment:	The data (Total electricity generation by the wind mills) will be archived on electronic media as well as on paper. The data will be kept for two years after the end of the crediting period or the

	last issuance of VERs for this project activity, whichever occurs later -Not used for emission reduction calculation
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Description of the monitoring plan:

Approved monitoring methodology ACM0002 / Version 10 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 monitoring includes collection, monitoring, recording, reporting and archiving of data. The applied methodology requires monitoring of electricity exported from wind farm and electricity imported to the wind farm. The net electricity supplied to the grid is calculated based on these two values. The values of grid emission factors are fixed ex-ante and remain same throughout the crediting period.

Enercon India limited is an ISO 9001:2000 certified Quality Management system from Germanischer Lloyd. Enercon India limited follows the documentation practices to ensure the reliability and availability of the data for all the activities as required from the identification of the site, wind resource assessment, logistics, finance, construction, commissioning and operation of the wind power project. Adhering to the calibration and testing procedure as described in Power Purchase Agreement ensures the accuracy of monitoring parameter. The project adheres to all the mandatory regulatory and statutory requirements at the state as well as national level.

Calibration of instruments: The calibration of metering equipments is subject to the requirements of EIL officials. The meter is calibrated annually as per the requirements mentioned in power purchase agreement between the investors and MSEDCL.

The following table provides the calibration and maintenance of measurement instruments:

**Calibration Records of
44 MW Maharashtra Project**

Bambarwadi	2006	2007	2008	2009	Due Date 2010
Feeder 1	At the time of commissioning of the WECs, the WECs were connected to the temporary feeder "Panumbre". In Mar-07, the WECs were	29-Jun-07	27-Jun-08	19-Mar-09	25-Mar-10
Feeder 2		29-Jun-07	27-Jun-08	19-Mar-09	25-Mar-10

	shifted to Feeder 1, 2 & 3. Therefore the calibration not required for 2006				
Feeder 3		29-Jun-07	27-Jun-08	19-Mar-09	25-Mar-10
	2006	2007	2008	2009	2010
Kadvekhurd	7-Feb-06	17-Feb-07	12-Jun-08	22-May-09	17-Nov-09
Varekarwadi		22-Jun-07	26-Jun-08	19-May-09	30-Mar-10
Panchpatta	2007	2008	2009	Due Date 2010	
Feeder 1	29-Jun-07	27-Jun-08	19-Mar-09	Apr-10	
Feeder 3	29-Jun-07	27-Jun-08	19-Mar-09		
Feeder 4	Feeder 4 got commissioned on 31-12-06 and due to some local disturbance the feeder was closed for the period Jul-07 to Jan-08. Therefore the feeder was not calibrated in 2007	6-Feb-08	1-Apr-09		
Feeder 5	Feeder got commissioned on 29-02-08. Therefore calibration not applicable	22-Jul-08	1-Apr-09		
Feeder 6	Feeder got commissioned on 29-02-08. Therefore calibration not applicable	22-Jul-08	1-Apr-09		

The due date of the calibration for the sites are mentioned as below:

Panchpatta: Apr-2010

Bambadhwadi: 25-Mar-2010

Kadvekhurd: 17-Nov-2009

Varekarwadi: 30-Mar-2010

Deviation in the Calibration terms mentioned in the registered VCS PD:

As mentioned in VCS PD, the panel meter/ controller meter is calibrated yearly. On this note we would like to take a deviation that the panel meter/controller meter is auto-calibrated and hence no yearly calibration is carried out yearly. Only substation meters are calibrated which are under jurisdiction of Maharashtra State Electricity Distribution Company Limited (MSEDCL). The panel meters and the inverting system within the wind electricity convertor is designed in a manner so as to generate an error report and immediately stop the functioning of WEC in case there is a deviation in the reading on account of an error. In any such eventuality the site person shall immediately check the system so as to rectify the problem. The manual of the panel meter elaborating the details of the same has been provided to the DOE.

G. Emission Reduction Calculation:

The emission reduction ER_y by the project activity during a given year y is the difference between baseline emissions (BE_y), project emissions (PE_y) and emissions due to leakage (L_y), as follows:

$$ER_y = BE_y - PE_y - L_y$$

Project emissions: The project involves the operation of a zero-emission wind farm, so

$$PE_y = 0$$

Leakage:

As per the applied methodology here is no leakage to this project so $L_y = 0$

Thus, $ER_y = BE_y$

i.e. the emission reductions are the baseline emissions in this project.

Baseline Emissions:

The baseline emissions (BE_y in tCO_2) are the product of the baseline emissions factor (EF_y in tCO_2/MWh) times the electricity exported by the project activity to the grid (EG_y in MWh)

$$BE_y = EF_y * EG_y$$

Baseline emission factor (EF_y) has been calculated ex-ante and will not be updated during the crediting period of ten years. As per PDD registered, $EF_y = 905.89 \text{ tCO}_2/GWh$ or $0.90589 \text{ tCO}_2/MWh$

Net electricity supplied to the grid and emission reductions by the project activity is calculated using below table:

Month wise Generation details			
Month	Export	Import	Net Electricity supplied to grid in kWh (Net Export)
Apr-06	900053.5	1789.155	898264.361
May-06	1445156	1026.9	1444129.31
Jun-06	1729317	767.79	1728549.52
Jul-06	2654110	1165.59	2652944.25
Aug-06	3784141	121.52	3784019.48
Sep-06	1113964	1737.68	1112226.63
Oct-06	837732.6	1904.23	835828.34
Nov-06	646483.7	1258.86	645224.81
Dec-06	362310.5	3583.51	358727.02
Jan-07	1017287	6653.99	1010632.72

Feb-07	1451523	5516.37	1446006.24
Mar-07	2635778	4960.41	2630817.83
Apr-07	2413008	3519.34	2409488.85
May-07	4489233	1387.7	4487845.47
Jun-07	4054815	202607.6	3852207.68
Jul-07	5855481	1049.4	5854431.46
Aug-07	5343355	417.96	5342936.61
Sep-07	2814594	1934.71	2812659.43
Oct-07	1649744	1907	1647836.59
Nov-07	1056394	1871.91	1054522.36
Dec-07	1209452	2144.3	1207307.2
Jan-08	753403.4	3560.81	749842.6
Feb-08	2510486	4510.12	2505975.95
Mar-08	2000785	7305.45	1993479.67
Apr-08	3559350	5088.78	3554260.78
May-08	8555748	536.28	8555211.95
Jun-08	9843234	3020.6	9840213.3
Jul-08	12299671	770.94	12298899.96
Aug-08	11518068	2374.17	11515693.57
Sep-08	4889766	6176.1	4883589.89
Oct-08	3695214	7310.73	3687903.22
Nov-08	4195744	4237.37	4191506.84
Dec-08	4611290	6348.39	4604941.92
Jan-09	2992854	9415.74	2983438.26
Feb-09	1923442	6984.66	1916457.62
Mar-09	2963312	4657.11	2958655.12
Apr-09	3801303	1938.29	3799364.97
May-09	8120202	1757.49	8118444.39
		Total	135374486.2

Panchpatta Apportioning Net Generation		
Total Net Export 2007	4210315	
Total Net Export 2008	39024520	
Total Net Export 2009	11486632	
Total Net Export	54721468	

Bambarwadi Apportioning Net Generation	
Total Net Export 2006	13391412
Total Net Export 2007	29136272
Total Net Export 2008	30829671
Total Net Export 2009	8657366
Total Net Export	82014721

Year	Net electricity supplied to grid (kWh) as per Credit Notes	VCUs based on Credit Notes	Net electricity supplied to grid based on apportioning calculation	VCUs based on apportioning calculation	Emission Factor (tCO2/MWh)	Total VCU revenue ^[1]
2006	13,459,913.72	12,193.00	13,391,411.95	12,131.00	0.90589	12,131.00
2007	33,756,692.44	30,579.00	33,346,587.16	30,208.00	0.90589	30,208.00
2008	68,381,519.65	61,946.00	69,854,191.56	63,280.00	0.90589	61,946.00
2009	19,776,360.36	17,915.00	20,143,997.93	18,248.00	0.90589	17,915.00
	Total	122,633.00		123,867.00		122,200.00

¹ Minimum of VCUs based on credit notes and VCUs based on apportioning(Generation_apportioning excel sheet) calculation to consider the conservative approach

Vintage wise breakup of VCU generated from project activity:-

Vintage	VCUs
2006	12,131.00
2007	30,208.00
2008	61,946.00
2009	17,915.00
Total	122,200.00

H. Additionality Consideration:

During the validation of the project activity under VCS 2007.1 a Forward Action Requested (FAR) has been raised. As per the FAR 'If the PLF of the project activity exceeds the range of sensitivity analysis (PLF 18%-22%) the additionality of the project will be re-assessed during every crediting period, The VERs will be issued if the project is additional.' (Refer Annex 66, 67 of EB48)'

For the crediting period of April 2006 to May 2009 the PLF for different customers in the bundle are listed below:

S.No.	Customers Name	PLF For the Monitoring Period (%)
1	G. B. Rubber Products	19.16
2	Shah Lulla Estate Developers	22.082
3	Liberty Oil Mills Ltd.	22.048
4	Paceman Sales Promotion P. Ltd.	17.12
5	Delta Enterprises	17.46
6	Mahanagar Developers	21.69
7	Kishor Food Products P. Ltd.	12.05
8	Mr. J. P. Patel	17.49
9	Mr. C. P. Patel	17.76
10	Mr. V. V. Patel	16.01
11	Mr. J. V. Patel	16.87
12	Mr. S. V. Patel	17.70
13	Mr. V. L. Patel	15.93
14	Laxmi Narayan Best Chiwda	17.33
15	New Sahyadri Industries Ltd. 01 02	13.30
16	Mr. P. L. Patel	14.51
17	Elpro International	20.00
18	Prachar Energy	18.84
19	Panama Wind Energy Pvt. Ltd.	14.87
20	International Conveyors Ltd.	11.08
21	Shreem Capacitors Pvt. Ltd.	8.80
22	Metalfab Hightech Private Limited	14.25
23	Atlas Tours & Travels Pvt. Ltd.	16.21

24	Om Shanti Wind Farms P. Ltd.	16.26
25	Gargi Construction Co. Pvt. Ltd.	11.52
26	Mohite & Mohite	14.45
27	Indiana Engineering Works (Bombay) P. Ltd.	16.67
28	Welpack Industries Ltd.	19.04
29	Sunilkumar Ramanlal Shah	22.063

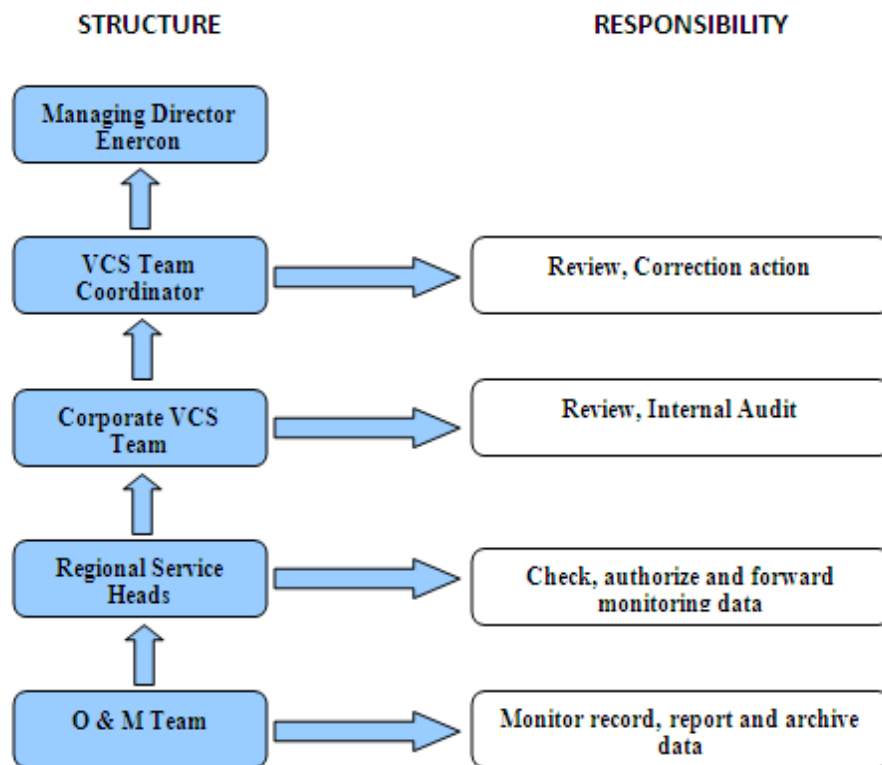
It is evident from the above table that PLF for all the customers is below the higher range of sensitivity analysis in additionality demonstration i.e. 22% (at 20% base PLF). It clearly shows that the project is additional for all the customers in the bundle. For some of the customers the PLF is below the lower range of sensitivity analysis in additionality demonstration i.e. 18% (at 20% base PLF), but the lower PLF will affect the additionality consideration positively. It is clear from here that project activity is additional for the monitoring period of 1 April 2006 to 31 May 2009.

For 3 customers the PLF values were marginally high as and when compared with 22% of PLF. The region for higher PLF was good wind availability during the monitoring period however these higher PLF values were cross checked in the IRR sheet and IRR arrived were found to be below the benchmark value. Hence on these PLF figures the project was still found to be additional. The IRR & Benchmark sheet has been attached for the reference. The IRR and benchmark corresponding to the actual PLF is listed below:

Customer Name	PLF	Project IRR	Benchmark WACC
Shah Lulla Estate Developers	22.082	13.07%	13.43
Liberty Oil Mills Ltd.	22.048	12.7%	13.43
Sunilkumar Ramanlal Shah	22.063	12.48	13.62

I. Roles and Responsibility:

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



Annex 1: Contact Information on Participants in the Project Activity

Organization:	Enercon (India) Limited
Street/P.O.Box:	A-9, Veera Industrial Estate, Veera Desai Road, Andheri West
Building:	Enercon Tower
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State/Region:	Maharashtra
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Country:	India
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Represented by:	
Title:	Managing Director
Salutation:	Mr.
Last Name:	Mehra
Middle Name:	
First Name:	Yogesh
Department:	Corporate
Mobile:	
Direct FAX:	+91-22-6692 1177
Direct tel:	+91-22-6702 2832
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