

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



Enercon (India) Ltd.

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Project Title	44 MW Bundled Wind Power Project in Maharashtra managed by Enercon India limited.
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Monitoring Period	01-10-2010 to 30-11-2011 3 rd Monitoring Period
Prepared By	Enercon (India) Ltd.
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1 PROJECT DETAILS

1.1 Summary Description of Project

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 88,348.069 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 79,803 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.

1.2 Sectoral Scope and Project Type

Sectoral scope : 1 Energy Industries (renewable -/ non renewable sources)

Project Type: I, Renewable energy project.

1.3 Project Proponent

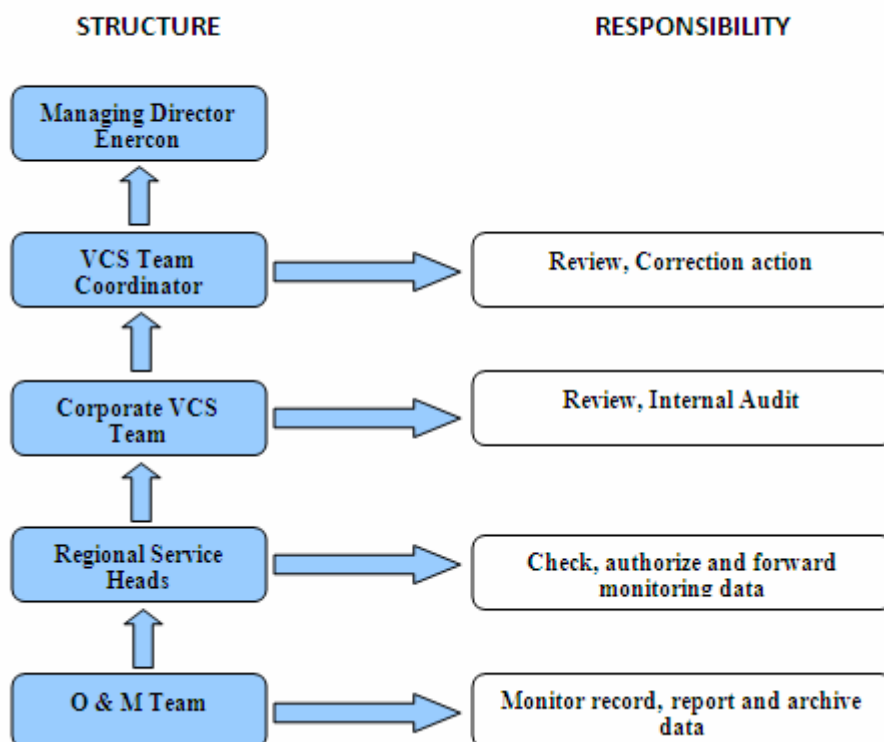
Enercon (India) Limited

The Project is operated and managed by Enercon (India) Ltd.

Organization:	Enercon (India) Limited
Street/P.O.Box:	A-9, Veera Desai Road
Building:	Enercon Tower
City:	Mumbai
State/Region:	Maharashtra
Postcode/ZIP:	400053
Country:	India
Telephone:	+91-22-41017111
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

Department:	
Mobile:	+91-98200 40301
Direct FAX:	
Direct tel:	+91-22-22-6702 2832 extn. 7111
Personal e-mail:	

Roles & Responsibilities



1.4 Other Entities Involved in the Project

Sr. No.	Customers Name	Address	Contact Number/email ID	Roles/Responsibilities
1	G. B. Rubber Products	S-157, M.I.D.C., Bhosari, Pune	+91-20-27120323 gbrubber@vsnl.net	Project Investor
2	Atlas Tours & Travels Pvt. Ltd	"Haji Mahal", 53 Mohammed Ali Road, Mumbai	+91-22-6141-1000 info@atlastravels.com	Project Investor
3	Shah Lulla Estate Developers	'Poshish', 1 st Floor, Lale Plot, Madhavnagar	+91-233-2377585 poshish@pn3.vsnl	Project Investor

		Road, Sangli	net.in	
4	Liberty Oil Mills Ltd.	Amerchand Mansion, 'D' Wind: 16, Madame Cama Road, Colaba, Mumbai	+91-22-66381000 admin@libertyoilmills.com	Project Investor
4	Liberty Oil Mills Ltd.	Amerchand Mansion, 'D' Wind: 16, Madame Cama Road, Colaba, Mumbai	+91-22-66381000 admin@libertyoilmills.com	Project Investor
5	Paceman Sales Promotion P. Ltd.	14, Netaji Subhas Road, 4 th Floor, Kolkata.	+91-33-2231-6142 purti2961@dataone.in	Project Investor
6	Delta Enterprises	Clover Centre, 7 Moledina Road, Pune	+91-20-26132000	Project Investor
7	Shreem Capacitors Pvt. Ltd.	P.B. No. 43, Industrial Estate, Plot No. 43/46, Jaisingpur	+91-2322-221021 kpr_shreem@sancharnet.in	Project Investor
8	Kishor Food Products P. Ltd	"Matruchhya" Post Box No. 23, Dondaicha	+91-20-25630872	Project Investor
9	Mahanagar Developers	San Mahu Complex, Bund Garden Road, Pune.	+92-20-2612-4265 sales@goelgangaddevelopers.com	Project Investor
9	Mahanagar Developers	San Mahu Complex, Bund Garden Road, Pune.	+92-20-2612-4265 sales@goelgangaddevelopers.com	Project Investor
10	Mr. J. P. Patel	39/D, Gultekdi, J.N. Marg, Pune	+91-20 2644 4625	Project Investor
11	Mr. C. P. Patel	39/D, Gultekdi, J.N. Marg, Pune	+91-20 2644 4625	Project Investor
12	Mr. V. V. Patel	39/D, Gultekdi, J.N. Marg, Pune	+91-20 2644 4625	Project Investor

13	Mr. J. V. Patel	39/D, Gultekdi,J.N. Marg, Pune	+91-20 2644 4625	Project Investor
14	Mr. S. V. Patel	39/D, Gultekdi,J.N. Marg, Pune	+91-20 2644 4625	Project Investor
15	Mr. V. L. Patel	39/D, Gultekdi,J.N. Marg, Pune	+91-20 2644 4625	Project Investor
16	Laxmi Narayan Best Chiwda	374, Bhavani Peth, Pune	+91-20-26454561	Project Investor
17	Om Shanti Wind Farms P. Ltd	12-1-58, Gunj Road, Raichur	+91-8532-235202 kamal@askgroup.biz	Project Investor
18	New Sahyadri Industries Ltd.	“Swastik House”, 39/D, Gultekdi,J.N. Marg, Pune	+91-20-2645-8888 swastikroofing@silworld.in	Project Investor
19	Mr. P. L. Patel	39/D, Gultekdi,J.N. Marg, Pune	+91-20 2644 4625	Project Investor
20	Elpro International	17 th Floor, Nirmal, Nariman Point Mumbai	+91-22-2202-3075	Project Investor
21	Prachar Energy	105,B-Wing, Samkeet Apartments, Sant Janabai Marg, Off. Hanuman Road, Vile Parle (E), Mumbai	+91-22-261-08750 deepak@prachar.in	Project Investor
22	D.J. Malpani	Plot No. 36, Somwar Peth, Pune	+91-20-2612 5060	Project Investor
23	International Conveyors Ltd.	10, Middleton Row, Post Box No. 9282, Kolkata	+91-33-2229-6033 icltld@vsnl.net	Project Investor
24	Metalfab Hightech Private Limited	E21-25 & 33B/2,MIDC, Industrial Area, Hingna Road, Nagpur	+91-7104-234240 mfhpl@hotmail.com	Project Investor
25	Gargi Construction Co. Pvt. Ltd.	Clover Centre, 7 Moledina Road, Pune	+91-20-26132000	Project Investor

26	Mohite & Mohite	'Mohite House', 240/B, Gen. Tihorat Marg, Tarabai park, Kolhapur	+91-231-2669991 mohicon@sanchar.net.in	Project Investor
27	Indiana Engineering Works (Bombay) P. Ltd.	Indiana House, Off. M.V. road, Marol Naka, andheri (East), Mumbai	+91(22)-2850 4743, 2850 5611	Project Investor
28	Welpack Industries Ltd.	87, Government Estate, Ganesh Nagar, Nr. Gaurda Petrol Pump, Charkop, Kandivale (W), Mumbai	+91-22-2867-8111 info@welpackind.com	Project Investor
29	Sunilkumar Ramanlal Shah	4920941, "Jeevan Jyoti", 151, Bhavani Path, Palace Street, Satara.	+91-9823016132	Project Investor

1.5 Project Start Date

07th February 2006

1.6 Project Crediting Period

The crediting period for the project activity is considered from April 1, 2006 to March 31, 2016, for 10 years.

1.7 Project Location

Sr. No.	Customers Name	Machine Capacity (MW)	Site	Taluka	District	Latitude	Longitude
1	G. B. Rubber Products	1.6	Kadvekhurd	Patan	Satara	N 17°33'15" to 17°33'56"	E 73°55'28" to 73°56'51"
2	Atlas Tours & Travels Pvt. Ltd	0.8	Kadvekhurd	Patan	Satara	N 17°33'15" to 17°33'56"	E 73°55'28" to 73°56'51"
3	Shah Lulla Estate Developers	0.8	Kadvekhurd	Patan	Satara	N 17°33'15" to 17°33'56"	E 73°55'28" to 73°56'51"
4	Liberty Oil Mills Ltd.	2.4	Kadvekhurd	Patan	Satara	N 17°33'15" to 17°33'56"	E 73°55'28" to 73°56'51"
4	Liberty Oil Mills Ltd.	1.6	Varekarwadi	Patan	Satara	N 17°11'47.6" to 17°11'51.2"	E 73°59'12.7" to 73°59'13.5"
5	Paceman Sales Promotion P. Ltd.	0.8	Bhambarwadi	Shirla	Sangli	N 17°8'36.5"	E 73°55'14.3"
6	Delta Enterprises	2.4	Bhambarwadi	Shirla	Sangli	N 17°7'11.3" to 17°8'35.6" to 17°8'28.5"	E 73°56'5.7" to 73°55'2.8" to 73°55'21.7"
7	Shreem Capacitors Pvt. Ltd.	3.2	Bhambarwadi	Shirla	Sangli	N 17°8'52.1" to 17°8'58.2" to 17°9'2.8"	E 73°55'10.1" to 73°55'6" to 73°55'5.4"

						17°9'34.8"	73°55'6.1"
8	Kishor Food Products P. Ltd	0.8	Bhambarwadi	Shirla	Sangli	N 17°8'53.2"	E 73°54'57.7"
9	Mahanagar Developers	7.2	Bhambarwadi	Shirla	Sangli	N 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"	E 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	N 19°39'12.8"	E 73°48'41.4"
10	Mr. J. P. Patel	0.8	Panchpatta	Sinnar	Nasik	N 19°45'53.4"	E 73°50'32.8"
11	Mr. C. P. Patel	0.8	Panchpatta	Sinnar	Nasik	N 19°45'17.1"	E 73°50'31.4"
12	Mr. V. V. Patel	0.8	Panchpatta	Sinnar	Nasik	N 19°44'58"	E 73°50'13.1"
13	Mr. J. V. Patel	0.8	Panchpatta	Sinnar	Nasik	N 19°45'12.7"	E 73°50'29.2"
14	Mr. S. V. Patel	0.8	Panchpatta	Sinnar	Nasik	N 19°45'46.9"	E 73°50'34.1"
15	Mr. V. L. Patel	0.8	Panchpatta	Sinnar	Nasik	N	E

						19°44'33.5"	73°50'29.2"
16	Laxmi Narayan Best Chiwda	0.8	Panchpatta	Sinnar	Nasik	N 19°45'2.9"	E 73°50'12.6"
17	Om Shanti Wind Farms P. Ltd	0.8	Aundhewadi	Sinnar	Nasik	N 19°45'7.7"	E 73°50'12.8"
18	New Sahyadri Industries Ltd.	1.6	Panchpatta	Akole	Ahmednagar	N 19°44'24.3" 19°44'28.2"	E 73°50'40.8" 73°50'35.7"
19	Mr. P. L. Patel	0.8	Panchpatta	Akole	Ahmednagar	N 19°41'7.2"	E 73°48'48.2"
20	Elpro International	0.8	Panchpatta	Akole	Ahmednagar	N 19°41'41.8"	E 73°48'53.3"
21	Prachar Energy	1.6	Panchpatta	Akole	Ahmednagar	N 19°39'17.8" 19°39'22.7"	E 73°48'42.7" 73°48'47.5"
22	D.J. Malpani ¹	1.6	Panchpatta	Akole	Ahmednagar	N 19°41'16.6" 19°41'20.6"	E 73°48'53" 73°48'55.6"
23	International Conveyors Ltd.	0.8	Panchpatta	Akole	Ahmednagar	N 19°41'37"	E 73°48'54.3"
24	Metalfab Hightech Private Limited	0.8	Panchpatta	Akole	Ahmednagar	N 19°41'11.9"	E 73°48'51.6"

¹ The Panama Wind Energy transferred WTGs to D.J. Malpani on April 2011

25	Gargi Construction Co. Pvt. Ltd.	1.6	Panchpatta	Akole	Ahmednagar	N 19°41'26.1" 19°41'31.1"	E 73°48'55.1" 73°48'54.5"
26	Mohite & Mohite	2.4	Panchpatta	Akole	Ahmednagar	N 19°42'15.6" 19°42'20.5" 19°42'25.6"	E 73°49'6.4" 73°49'15.9" 73°49'15.3"
27	Indiana Engineering Works (Bombay) P. Ltd.	1.6	Panchpatta	Akole	Ahmednagar	N 19°39'27.5" 19°39'32.4"	E 73°48'49" 73°48'49.8"
28	Welpack Industries Ltd.	0.8	Panchpatta	Akole	Ahmednagar	N 19°39'7.9"	E 73°48'37"
29	Sunilkumar Ramanlal Shah	0.8	Panchpatta	Akole	Ahmednagar	N 19°44'38.6"	E 73°50'22.5"

The Project is spread across villages in Kadvekhurd, Varekarwadi, Bhamburwadi & Panchpatta, in Satara, Sangli, Nasik & Ahmednagar district in the state of Maharashtra. The location of the units is on the micro-siting data to get optimum performance. The latitudinal & longitudinal as well as the unique identification details of individual machines are as given in the following table:

1.8 Title and Reference of Methodology

The project under consideration has been developed using UNFCCC CDM program approved methodology for large-scale CDM Project activity ACM 0002, Version 10.0 as approved by VCS 2007.1. The title of this baseline and monitoring methodology is "Consolidated baseline methodology for grid-connected electricity generation from renewable sources".

2 IMPLEMENTATION STATUS

2.1 Implementation Status of the Project Activity

- The first machine under the project activity was commissioned on 7th February 2006 and last machine under the project activity was commissioned on 10th December 2008. The project activity consists of 55 machines (800 kWh) of Enercon make E-48. The commissioning date for all the machines included in the project activity is given in the table below.

Serial No	Customer Name	Individual Capacity	Lo c 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	1.6	8-Feb-06
8	Liberty Oil Mills Ltd.	0.8	2		8-Feb-06
9	Paceman Sales Promotion P. Ltd.	0.8	36	0.8	22-Mar-06
10	Delta Enterprises	0.8	37	1.6	22-Mar-06
11	Delta Enterprises	0.8	38		15-Jun-06
12	Delta Enterprises	0.8	19	0.8	15-Jun-06
13	Mahanagar Developers	0.8	53	4.8	5-Jan-07
14	Mahanagar Developers	0.8	54		6-Mar-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		5-Jan-07
19	Mahanagar Developers	0.8	62	2.4	6-Mar-07
20	Mahanagar Developers	0.8	63		5-Jan-07
21	Mahanagar Developers	0.8	60		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	1.6	27-Jan-07
32	New Sahyadri Industries Ltd.	0.8	75		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-06
35	Prachar Energy	0.8	31	1.6	3-Mar-07
36	Prachar Energy	0.8	32		3-Mar-07
37	D. J. Malpani	0.8	47	1.6	30-Dec-06
38	D.J. Malpani	0.8	48		30-Dec-06

Serial No	Customer Name	Individual Capacity	Loc No.	Capacity	Date of Commissioning
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

The project has supplied 88.348 GWh of electricity to the grid in the monitoring period, which indicates that the project has performed reasonably well during the monitoring period (1st October 2010 to 30th November 2011).

ATLAS TOURS AND TRAVELS PVT. LTD.																
Location:				Phase RD - KADVEKHURD - MAHARASHTRA					Machines:				E-48 X 1			
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011			
WEC Name	Genera tion	Opera ting Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)	
ATTPL KK-01 (5)	12499 12	8703: 00:00	1351: 25:00	16:00	29:51 :00	1:45	15:3 8	61:38 :00	45:18 :00	1521: 00:00	15.28	99.55	99.83	98.78	99.55	
MR. C. P. PATEL																
Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:				E-48 X 1			
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011			
WEC Name	Genera tion	Opera ting Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)	
CPPA W-01 (84)	20590 85	8276: 00:00	1607: 10:00	87:33 :00	81:40 :00	5:00	2:23	119:2 8:00	45:31 :00	1948: 00:00	25.17	98.34	99.93	98.31	98.34	
DELTA ENTERPRISES																
Location:				Phase 01 - BHAMBARWADI - MAHARASHTRA					Machines:				E-48 X 3			
Capacity:				2.4 MW					Date:				01/10/2010-30/11/2011			
WEC Name	Genera tion	Opera ting Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)	
DEBH-01 (37)	18811 83	9280: 00:00	686:1 1:00	14:39	41:35 :00	8:45	3:40	44:35 :00	103:2 5:00	944:0 0:00	23	99.45	99.88	95.51	99.45	

DEBH-02 (38)	1645301	9050:00:00	935:41:00	36:10:00	49:19:00	8:45	3:40	45:05:00	102:55:00	1174:00:00	20.12	99.16	99.88	95.27	99.16
DEBH-03 (19)	1326072	8586:00:00	1422:51:00	33:25:00	29:04:00	8:45	3:40	45:05:00	102:55:00	1638:00:00	16.21	99.39	99.88	95.37	99.39
ELPRO INTERNATIONAL LTD															
Location:				Phase di - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
EILPP-01(52)	1649335	8079:00:00	1881:45:00	86:11:00	48:34:00	0	20:30	52:55:00	56:20:00	2145:00:00	20.16	98.68	99.8	98.73	98.68
G. B. RUBBER PRODUCTS															
Location:				Phase RD - KADVEKHURD - MAHARASHTRA					Machines:			E-48 X 2			
Capacity:				1.6 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
GBRP KK-01 (.)	1513398	8916:00:00	1083:50:00	28:39:00	71:37:00	1:58	15:57	61:38:00	45:18:00	1308:00:00	18.5	99.02	99.82	98.78	99.02
GBRP KK-02 (.)	1445292	8928:00:00	1112:23:00	17:55	41:48:00	2:02	15:06	61:38:00	45:18:00	1296:00:00	17.67	99.42	99.83	98.79	99.42
GARGI CONSTRUCTION CO. PVT. LTD															
Location:				Phase di - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 2			
Capacity:				1.6 MW					Date:			01/10/2010-30/11/2011			

WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
GCCP P-01 (49)	16864 39	8011: 00:00	1861: 11:00	53:50 :00	147:5 5:00	20:59	29:4 9:00	52:55 :00	56:20 :00	2213: 00:00	20.62	98.03	99.5	98.43	98.03
GCCP P-02 (50)	17066 69	8120: 00:00	1856: 33:00	39:57 :00	73:52 :00	2:02	23:3 6	52:45 :00	56:20 :00	2104: 00:00	20.87	98.89	99.75	98.68	98.89
INDIANA ENGINEERING WORKS (BOMBAY) PVT. LTD															
Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 2			
Capacity:				1.6 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
IGPLP P-01 (33)	20679 42	8877: 00:00	1178: 20:00	12:04	37:08 :00	0	9:48	22:15	41:25 :00	1347: 00:00	25.28	99.52	99.9	99.28	99.52
IGPLP P-02 (34)	19368 04	8635: 00:00	1292: 27:00	118:2 0:00	48:33 :00	0	0	22:15	41:25 :00	1589: 00:00	23.68	98.37	100	99.38	98.37
INTERNATIONAL CONVEYORS LIMITED															
Location:				Phase di -PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
ICLPP-01 (51)	15640 74	7836: 00:00	2054: 17:00	192:3 6:00	17:15	0	20:1 1	52:55 :00	56:20 :00	2388: 00:00	19.12	97.95	99.8	98.73	97.95

MR. J. P. PATEL																
Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:				E-48 X 1			
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011			
WEC Name	Genera-tion	Opera-tion Hours	Lull Hours	Mach-ine Fault	Mach-ine S/D	Intern-al Fault	Inter-nal S/D	Exter-nal Fault	Exter-nal S/D	Total HRS.	Capa-city Factor(%)	Machin-e Availabil-ity(%)	Grid Internal Availabil-ity(%)	Grid External Availabil-ity(%)	WindFar-m Availabil-ity(%)	
JPPA W-01 (95)	16728 87	8111: 00:00	1852: 59:00	64:01 :00	31:26 :00	0	1:35	119:2 8:00	45:31 :00	2113: 00:00	20.45	99.07	99.98	98.37	99.07	
MR. J. V. PATEL																
Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:				E-48 X 1			
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011			
WEC Name	Genera-tion	Opera-tion Hours	Lull Hours	Mach-ine Fault	Mach-ine S/D	Intern-al Fault	Inter-nal S/D	Exter-nal Fault	Exter-nal S/D	Total HRS.	Capa-city Factor(%)	Machin-e Availabil-ity(%)	Grid Internal Availabil-ity(%)	Grid External Availabil-ity(%)	WindFar-m Availabil-ity(%)	
JVPA W-01 (83)	20165 94	8100: 00:00	1672: 54:00	170:3 9:00	102:5 1:00	1:50	14:1 2	119:1 8:00	45:31 :00	2124: 00:00	24.66	97.32	99.84	98.23	97.32	
KISHOR FOOD PRODUCTS PVT. LTD.																
Location:				Phase 01 - BHAMBARWADI - MAHARASHTRA					Machines:				E-48 X 1			
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011			
WEC Name	Genera-tion	Opera-tion Hours	Lull Hours	Mach-ine Fault	Mach-ine S/D	Intern-al Fault	Inter-nal S/D	Exter-nal Fault	Exter-nal S/D	Total HRS.	Capa-city Factor(%)	Machin-e Availabil-ity(%)	Grid Internal Availabil-ity(%)	Grid External Availabil-ity(%)	WindFar-m Availabil-ity(%)	
KFPPL BH-01 (47)	17862 52	9353: 00:00	673:0 1:00	7:16	41:28 :00	10:25	1:00	35:00 :00	110:2 5:00	871:0 0:00	21.84	99.52	99.89	96.1	99.52	
LAXMI NARAYAN BEST CHIWDA																

MONITORING REPORT: *VCS Version 3*

Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:				E-48 X 1		
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011		
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
LNBC AW-01 (81)	21894 13	8578: 00:00	1433: 46:00	21:02	20:12	1:50	5:21	119:2 8:00	45:31 :00	1646: 00:00	26.77	99.6	99.93	98.32	99.6
LIBERTY OIL MILLS LTD.															
Location:				Phase 01 - KADVEKHURD - MAHARASHTRA					Machines:				E-48 X 3		
Capacity:				2.4 MW					Date:				01/10/2010-30/11/2011		
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
LOML KK-06 (.)	14382 41	8758: 00:00	1274: 21:00	32:23 :00	36:06 :00	1:45	15:3 7	61:38 :00	45:18 :00	1466: 00:00	17.58	99.33	99.83	98.78	99.33
LOML KK-07 (.)	17418 09	8719: 00:00	1314: 46:00	27:19 :00	39:29 :00	1:45	15:1 6	61:38 :00	45:18 :00	1505: 00:00	21.3	99.35	99.83	98.79	99.35
LOML KK-08 (.)	17502 51	8504: 00:00	1274: 11:00	10:07	317:4 7:00	1:45	9:44	61:38 :00	45:18 :00	1720: 00:00	21.4	96.79	99.89	98.84	96.79
LIBERTY OIL MILLS LTD.															
Location:				Phase 02 - VAREKARWADI - MAHARASHTRA					Machines:				E-48 X 2		
Capacity:				1.6 MW					Date:				01/10/2010-30/11/2011		

WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Extern al Fault	Extern al S/D	Total HRS.	Capa city Factor(%)	Mach ine Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
LOML VA-01	20122 31	8903: 00:00	1064: 51:00	21:52	53:15 :00	10:29	5:10	127:0 4:00	38:19 :00	1321: 00:00	24.59	99.27	99.85	98.15	99.27
LOML VA-02	20169 26	8975: 00:00	1003: 05:00	16:26	49:27 :00	8:39	6:00	127:0 4:00	38:19 :00	1249: 00:00	24.61	99.36	99.86	98.17	99.36
MAHANAGAR DEVELOPERS															
Location:				Phase 01 - BHAMBARWADI - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Extern al Fault	Extern al S/D	Total HRS.	Capa city Factor(%)	Mach ine Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
MDBH-09 (63)	15374 33	9042: 00:00	975:5 7:00	8:30	44:43 :00	8:45	3:40	45:05 :00	102:5 5:00	1182: 00:00	18.8	99.48	99.88	95.47	99.48
MAHANAGAR DEVELOPERS															
Location:				Phase 02 - BHAMBARWADI - MAHARASHTRA					Machines:			E-48 X 8			
Capacity:				6.4 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Extern al Fault	Extern al S/D	Total HRS.	Capa city Factor(%)	Mach ine Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
MDBH-01 (57)	15397 90	8628: 00:00	1090: 01:00	29:17 :00	43:37 :00	10:25	3:05	35:00 :00	110:2 5:00	1596: 00:00	18.83	99.29	99.87	95.7	99.29
MDBH-02 (56)	15065 40	8631: 00:00	1061: 21:00	56:55 :00	40:39 :00	10:25	3:05	35:00 :00	110:2 5:00	1593: 00:00	18.42	99.05	99.87	95.49	99.05

MDBH-03 (55)	14540 17	8687: 00:00	1070: 52:00	6:16	26:57 :00	10:25	3:05	35:00 :00	110:2 5:00	1537: 00:00	17.78	99.68	99.87	95.58	99.68
MDBH-05 (62)	13241 11	8692: 00:00	997:0 9:00	65:30 :00	42:16 :00	10:25	3:05	35:00 :00	110:2 5:00	1532: 00:00	16.19	98.95	99.87	95.65	98.95
MDBH-07 (61)	49107 9	2836: 00:00	402:4 6:00	34:39 :00	9:45	10:25	0	35:00 :00	110:2 5:00	7388: 00:00	6	99.57	99.9	96.79	99.57
MDBH-08 (60)	42605 4	2709: 00:00	365:1 9:00	33:36 :00	14:45	10:25	0	35:00 :00	110:2 5:00	7515: 00:00	5.21	99.53	99.9	97.22	99.53
MAHANAGAR DEVELOPERS															
Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Genera tion	Opera ting Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
MDPP-01 (30)	20314 23	8427: 00:00	1358: 02:00	199:3 4:00	46:33 :00	6:30	7:41	22:15	41:25 :00	1797: 00:00	24.84	97.59	99.86	99.24	97.59
METALFAB HIGHTECH PRIVATE LIMITED															
Location:				Phase di - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Genera tion	Opera ting Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Inter nal S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
MHPL PP-01 (46)	15215 43	8328: 00:00	1602: 41:00	8:55	155:0 6:00	7:00	15:3 8	52:55 :00	56:20 :00	1896: 00:00	18.6	98.4	99.78	98.71	98.4
MOHITE AND MOHITE															
Location:				Phase di - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 3			

Capacity:				2.4 MW					Date:				01/10/2010-30/11/2011		
WEC Name	Generation	Operating Hours	Lull Hours	Machine Fault	Machine S/D	Internal Fault	Internal S/D	External Fault	External S/D	Total HRS.	Capacity Factor(%)	Machine Availability(%)	Grid Internal Availability(%)	Grid External Availability(%)	WindFarm Availability(%)
MAMP P-01 (59)	1539056	8102:00:00	1867:40:00	98:54:00	22:52	6:33	20:06	52:55:00	56:20:00	2122:00:00	18.82	98.81	99.74	98.67	98.81
MAMP P-02 (60)	1442051	8184:00:00	1815:08:00	59:00:00	34:19:00	6:33	18:23	52:55:00	56:20:00	2040:00:00	17.63	99.09	99.76	98.69	99.09
MAMP P-03 (61)	1561125	8117:00:00	1879:28:00	23:14	73:50:00	6:33	17:33	52:45:00	56:20:00	2107:00:00	19.09	99.05	99.76	98.7	99.05
SAHYADRI INDUSTRIES LTD															
Location:				Phase de - PANCHPATTA - MAHARASHTRA					Machines:				E-48 X 2		
Capacity:				1.6 MW					Date:				01/10/2010-30/11/2011		
WEC Name	Generation	Operating Hours	Lull Hours	Machine Fault	Machine S/D	Internal Fault	Internal S/D	External Fault	External S/D	Total HRS.	Capacity Factor(%)	Machine Availability(%)	Grid Internal Availability(%)	Grid External Availability(%)	WindFarm Availability(%)
SILPP-01 (74)	1848688	7815:00:00	2057:19:00	108:45:00	163:11:00	3:00	1:35	35:50:00	43:00:00	2409:00:00	22.6	97.34	99.96	99.18	97.34
SILPP-02 (75)	1822204	8326:00:00	1531:16:00	46:51:00	237:28:00	4:00	1:15	35:50:00	43:00:00	1898:00:00	22.28	97.22	99.95	99.18	97.22
OM SHANTI WIND FARMS PVT. LTD															
Location:				Phase DI - AUNDHEWADI - MAHARASHTRA					Machines:				E-48 X 1		
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011		

WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
OSWP LAW-01 (82)	1974971	8398:00:00	1578:31:00	67:04:00	11:49	1:50	3:47	119:28:00	44:41:00	1826:00:00	24.15	99.23	99.95	98.34	99.23
MR. P. L. PATEL															
Location:				Phase di - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
PLPPP -01 (45)	1374007	8249:00:00	1678:20:00	59:54:00	106:51:00	7:00	15:45	52:55:00	56:20:00	1975:00:00	16.8	98.37	99.78	98.71	98.37
PACEMAN SALES PROMOTION P. LTD															
Location:				Phase 01 - BHAMBARWADI - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
PSPPL BH-01(36)	1727425	9099:00:00	825:06:00	52:04:00	46:15:00	8:45	3:40	45:05:00	102:55:00	1125:00:00	21.12	99.04	99.88	95.4	99.04
D J MALPANI															
Location:				Phase 01 - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 2			
Capacity:				1.6 MW					Date:			01/10/2010-30/11/2011			

WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Extern al Fault	Extern al S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
DJMP P-01 (47)	1347180	6602:00:00	1150:30:00	32:24:00	103:41:00	7:00	16:00	51:10:00	54:50:00	1414:00:00	21.01	98.3	99.71	98.39	98.3
DJMP P-02 (48)	1302869	6344:00:00	1289:12:00	54:34:00	210:06:00	7:00	13:36	51:10:00	54:50:00	1672:00:00	20.32	96.7	99.74	98.42	96.7
PRACHAR ENERGY															
Location:				Phase 01 - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 2			
Capacity:				1.6 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Extern al Fault	Extern al S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
PEPP-01 (31)	1935647	8448:00:00	1410:03:00	116:42:00	42:43:00	12:30	11:01	22:15	43:10:00	1776:00:00	23.67	98.44	99.77	99.13	98.44
PEPP-02 (32)	1962780	8612:00:00	1326:53:00	122:12:00	44:43:00	6:30	10:02	22:15	41:25:00	1612:00:00	24	98.37	99.84	99.22	98.37
MR. S. V. PATEL															
Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Extern al Fault	Extern al S/D	Total HRS.	Capa city Facto r(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
SVPA W-01 (94)	1880622	8245:00:00	1745:03:00	46:42:00	21:41	0	1:40	119:28:00	45:31:00	1979:00:00	22.99	99.33	99.98	98.37	99.33

SHAH LULLA ESTATE DEVELOPERS																
Location:				Phase RD - KADVEKHURD - MAHARASHTRA					Machines:				E-48 X 1			
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011			
WEC Name	Genera-tion	Opera-tion Hours	Lull Hours	Mach-ine Fault	Mach-ine S/D	Intern-al Fault	Inter-nal S/D	Exter-nal Fault	Exter-nal S/D	Total HRS.	Capa-city Factor(%)	Machin-e Availabil-ity(%)	Grid Internal Availabil-ity(%)	Grid External Availabil-ity(%)	WindFa-rm Availabil-ity(%)	
SLEDK K-01 (4)	1711678	8924:00:00	1131:38:00	5:36	38:41:00	2:09	15:00	61:38:00	45:18:00	1300:00:00	20.93	99.57	99.83	98.79	99.57	
SHREEM CAPACITORS PVT LTD																
Location:				Phase 01 - BHAMBARWADI - MAHARASHTRA					Machines:				E-48 X 4			
Capacity:				3.2 MW					Date:				01/10/2010-30/11/2011			
WEC Name	Genera-tion	Opera-tion Hours	Lull Hours	Mach-ine Fault	Mach-ine S/D	Intern-al Fault	Inter-nal S/D	Exter-nal Fault	Exter-nal S/D	Total HRS.	Capa-city Factor(%)	Machin-e Availabil-ity(%)	Grid Internal Availabil-ity(%)	Grid External Availabil-ity(%)	WindFa-rm Availabil-ity(%)	
SCPLB H-01 (50)	1701949	9040:00:00	806:50:00	85:22:00	43:03:00	110:05:00	1:00	35:00:00	110:25:00	1184:00:00	20.81	98.74	98.91	94.84	98.74	
SCPLB H-02 (51)	1596054	9088:00:00	935:51:00	6:10	43:48:00	10:25	2:00	35:00:00	110:25:00	1136:00:00	19.51	99.51	99.88	95.47	99.51	
SCPLB H-03 (52)	1601113	9161:00:00	871:19:00	7:45	33:51:00	10:25	2:00	35:00:00	110:25:00	1063:00:00	19.58	99.59	99.88	95.65	99.59	
SCPLB H-04 (58)	1443177	8563:00:00	1172:07:00	19:00	35:58:00	10:25	3:05	35:00:00	110:25:00	1661:00:00	17.64	99.46	99.87	95.54	99.46	
SUNILKUMAR RAMANLAL SHAH																
Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:				E-48 X 1			
Capacity:				0.8 MW					Date:				01/10/2010-30/11/2011			

WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
SRSA W-01 (77)	19337 66	8684: 00:00	1285: 50:00	65:45 :00	19:15	1:50	3:00	119:2 8:00	45:31 :00	1540: 00:00	23.64	99.17	99.95	98.34	99.17
MR. V. L. PATEL															
Location:				Phase DI - PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
VLPA W-01 (76)	16938 77	8188: 00:00	1728: 22:00	25:23 :00	104:5 9:00	8:22	4:20	119:2 8:00	45:31 :00	2036: 00:00	20.71	98.72	99.88	98.26	98.72
WELPACK INDUSTRIES LTD.															
Location:				Phase DI -PANCHPATTA - MAHARASHTRA					Machines:			E-48 X 1			
Capacity:				0.8 MW					Date:			01/10/2010-30/11/2011			
WEC Name	Generation	Operating Hours	Lull Hours	Mach ine Fault	Mach ine S/D	Intern al Fault	Intern al S/D	Exter nal Fault	Exter nal S/D	Total HRS.	Capa city Factor(%)	Machin e Availabil ity(%)	Grid Internal Availabil ity(%)	Grid External Availabil ity(%)	WindFa rm Availabil ity(%)
WILPP -01 (29)	17307 89	7439: 00:00	1544: 38:00	203:3 6:00	896:2 0:00	6:30	12:4 2	22:15	43:10 :00	2785: 00:00	21.16	89.24	99.81	99.17	89.24

There have not been any special events comprising of major overhauls and downtime of project activity during the said monitoring period; thus there has not been any change in the operation of project activity during the monitoring period. Also, there have not been any events that may impact the GHG emission reductions and monitoring in current monitoring period.

2.2 Deviations from the Monitoring Plan

In Maharashtra, group metering system exist i.e. there is no separate meter for individual wind turbine which shows individual export & import of electricity. So in order to calculate import & export value of electricity from the WEGs apportioning is done by manufacturer & certified by State utility.

Further, in Section 3.3 of the Validated VCS PD, it is mentioned that apportioned values for EG_{export} and EG_{import} will be calculated.

However, EG_{export} and EG_{import} values can be sourced directly from the credit break up issued by State Utility for each WEG/ each investor, so apportioning to calculate EG_{export} and EG_{import} separately is not required, although the Net Electricity Exported will be calculated as difference of EG_{export} and EG_{import} . A deviation on this account is, sought for the current as well as future Monitoring periods of the Project activity as value of EG_{export} and EG_{import} will be taken from Credit breakup sheet and it will not be apportioned,. The reason for deviation is that the values are easily available in the credit break up & is conservative, hence deviation is taken. Hence the monitoring parameter EG Gross y is not included in section 3.2 as emission reductions are being directly calculated based on the values of net electricity supplied grid by the project activity which are being sourced from JMRs/Credit reports issued by MSEDCL.

3 DATA AND PARAMETERS

3.1 Data and Parameters Available at Validation

Data Unit / Parameter:	$EF_{\text{grid}, y}$
Data unit:	tCO_2 / MWh
Description:	Combined margin emission factor of NEWNE grid
Source of data:	Calculated from operating and built margin, using 75%-25% weights used (Source: CEA database Version 4 October 2008 http://www.cea.nic.in/reports/planning/cdm_co2/user_guide_ver4.pdf)
Value applied:	0.90589
Purpose of the data:	To calculate Baseline Emissions.
Any comment:	This value is calculated on ex-ante basis and will remain fixed for the entire crediting period.

Data Unit / Parameter:	$EF_{\text{OM}, y}$
Data unit:	tCO_2 / MWh
Description:	Operating margin emission factor of NEWNE Grid

Source of data:	Calculated from CEA database (Source: CEA database Version 4 October 2008 http://www.cea.nic.in/reports/planning/cdm_co2/user_guide_ver4.pdf)
Value applied:	1.00862
Purpose of the data:	To calculate Baseline Emissions.
Any comment:	This value is calculated on ex-ante basis and will remain fixed for the entire crediting period.

Data Unit / Parameter:	EF _{BM,y}
Data unit:	tCO ₂ / MWh
Description:	Build margin emission factor of NEWNE grid
Source of data:	Calculated from CEA database (Source: CEA database Version 4 October 2008 http://www.cea.nic.in/reports/planning/cdm_co2/user_guide_ver4.pdf)
Value applied:	0.59771
Purpose of the data:	To calculate Baseline Emissions.
Any comment:	This value is calculated on ex-ante basis and will remain fixed for the entire crediting period.

3.2 Data and Parameters Monitored

Data Unit / Parameter:	EG _{Export,y}
Data unit:	MWh (Mega-watt hour)
Description:	Electricity exported to the grid by the project activity in year y
Source of data:	Monthly certificates issued by MSEDCL
Description of measurement methods and procedures to be applied:	The Energy generated at the wind farm will be metered and measured by MSEDCL on monthly basis at the sending end substation of the Wind Farm. The monitoring of 'electricity exported to the grid' would be as per the details provided in PPA.
Frequency of monitoring/recording:	Monthly
Value monitored:	1 October 2010 to 30 November 2011 = 88407.894 MWh
Monitoring equipment:	The Energy Meters of accuracy class 0.2s has been used to measure the electricity exported (at substation) and same is being apportioned by MSEDCL to calculate electricity exported by the project activity.
QA/QC procedures to be applied:	Every month these meter readings are jointly recorded by MSEDCL representative and plant

	personnel. The meters at the sub station are the two-way meters and are in the custody of MSEDCL. Since the readings are taken at the point of supply of power to the grid, the transmission and distribution losses and the minimum reactive power consumption has already been taken into account.
Calculation method:	Described in Section 3.3
Any comment:	Not Applicable

Data Unit / Parameter:	EG _{Import,y}
Data unit:	MWh (Mega-watt hour)
Description:	Electricity imported from the grid
Source of data:	Monthly certificates issued by MSEDCL
Description of measurement methods and procedures to be applied:	The Energy received at the wind farm will be metered and measured by MSEDCL on monthly basis at the sending end sub-station of the Wind Farm.
Frequency of monitoring/recording:	Monthly
Value monitored:	1 October 2010 to 30 November 2011 = 59.795 MWh
Monitoring equipment:	The Energy Meters of accuracy class 0.2s has been used to measure the electricity imported (at substation) and same is being apportioned by MSEDCL to calculate electricity imported by the project activity.
QA/QC procedures to be applied:	Every month these meter readings are jointly recorded by MSEDCL representative and plant personnel. The meters at the substation are the two-way meters and are in the custody of MSEDCL. Since the readings are taken at the point of supply of power to the grid, the transmission and distribution losses and the minimum reactive power consumption has already been taken into account.
Calculation method:	Described in Section 3.3
Any comment:	Not Applicable

Data Unit / Parameter:	EG _{y, net}
Data unit:	MWh (Mega-watt hour)
Description:	Net electricity supplied to the grid by the Project.
Source of data:	Calculated from EG _{export} and EG _{import} as

	(EG,export – EG,import)
Description of measurement methods and procedures to be applied:	Net electricity supplied to the grid will be calculated by the values of Electricity import and Electricity export.. The Net electricity is recorded as following: (Net Electricity = Net Export – Net Import) The procedures for metering and meter reading will be as per the provisions of the wheeling and banking arrangement.
Frequency of monitoring/recording:	Monthly
Value monitored:	1 October 2010 to 30 November 2011 = 88348.069 MWh
Monitoring equipment:	The Energy Meters of accuracy class 0.2s has been used to measure the electricity exported & imported to grid.
QA/QC procedures to be applied:	QA/QC procedures will be implemented pursuant to PPA agreement.
Calculation method:	Explained in Section 3.3
Any comment:	Not Applicable

3.3 Description of the Monitoring Plan

Approved monitoring methodology ACM0002 / Version 10 Sectoral Scope: 1, “Consolidated methodology for 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 net electricity supplied to the grid. The values of grid emission factors are fixed ex-ante and remain same throughout the crediting period.

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_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:

- Previously 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. $EG_{gross, y}$ 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

$$\sum EG_{gross\ export, y} \text{ and } EG_{gross\ import, y}$$

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

$$\sum EG_{total\ import} \text{ and } EG_{total\ export}$$

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” ($EG_{JMR, export}$) and “import” ($EG_{JMR, import}$) 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.

In current monitoring period EG_{Gross} parameter is not considered, because now the credit breakup is used as source for taking the values of EG_{export} & EG_{import} , the credit breakup is issued on monthly basis & is authorized by MSEDCL. Hence the deviation is taken from this monitoring period.

There is no requirement of apportioning of EG_{export} & EG_{import} to be done by PP, as it is done by MSEDCL & a credit breakup is issued.

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

$$EG_{export} = EG_{JMR, export} \times \frac{\sum_0^n EG_{gross export, y}}{\left(\sum_0^n EG_{gross export, y} + \sum_0^n EG_{total export, y} \right)}$$

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

$$EG_{import} = EG_{JMR, import} \times \frac{\sum_0^n EG_{gross import, y}}{\left(\sum_0^n EG_{gross import, y} + \sum_0^n EG_{total import, y} \right)}$$

From this monitoring period the deviation has been taken as the values of EG_{export} & EG_{import} are available in the Credit Breakup given by MSEDCL, so from the breakup sheet the values are sourced & the net electricity supplied to grid will be calculated as the difference between Electricity Exported & Electricity Imported.

EG_y , the net electricity supplied to the grid by the project activity, is calculated as follows:
 $EG_y = EG_{export} - EG_{import}$

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:

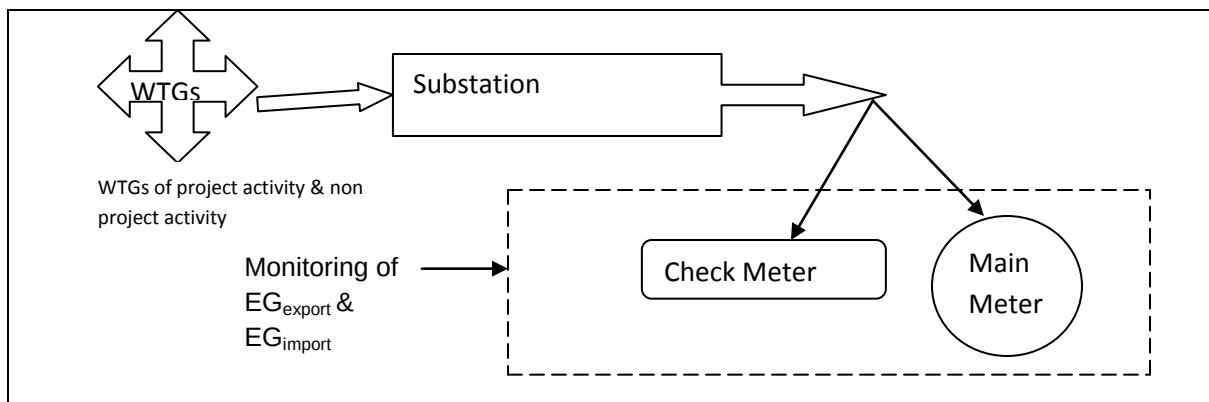
(Net Electricity = Total Export – Total Import)

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

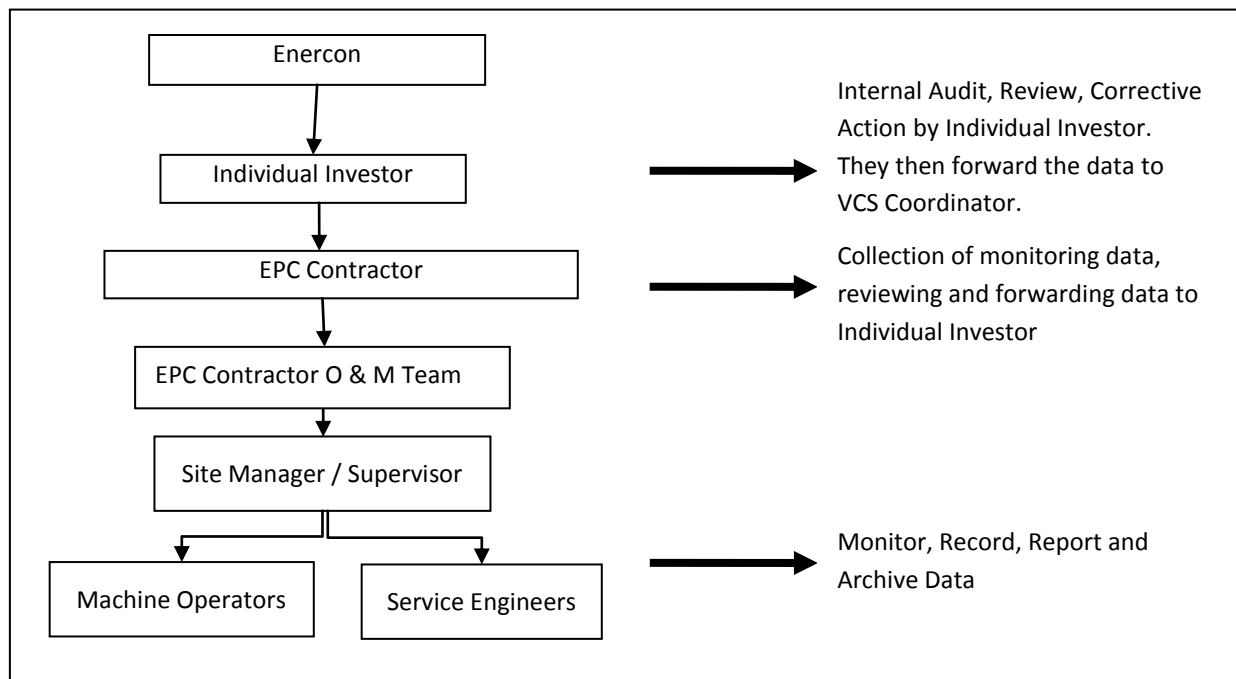
e) Monitoring times and periods, considering the needs of intended users: The Net electricity supplied to the grid is recorded monthly by taking a Joint Meter Reading (JMR) in the presence of officials from off-taking Utility (MSEDCL) and Enercon as O&M contractor, on behalf of project sponsor. The Joint 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 GHG collection diagram is as follows:



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



Enercon India limited is an ISO 9001:2008 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.

g) Managing Data Quality:

Data management is as per the ISO certification standards.

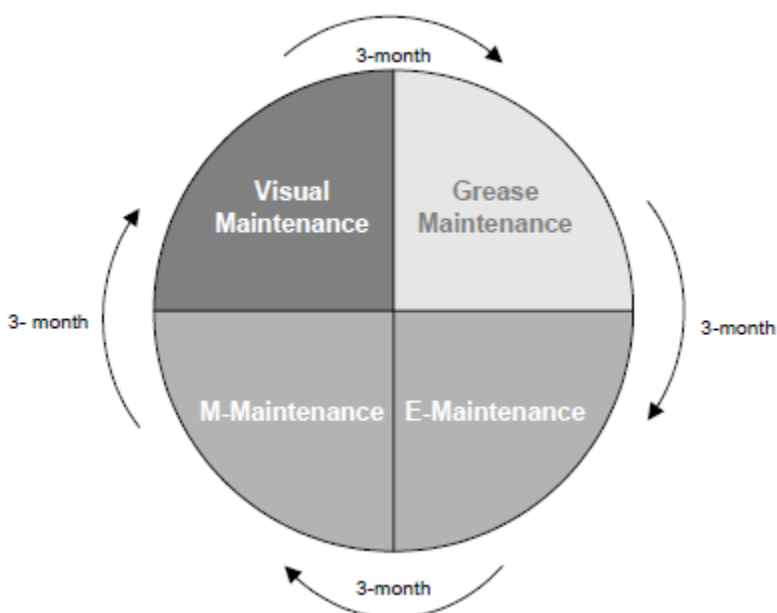
1. The data collection is ongoing process.
2. Two-way meter will be calibrated on regular basis (as per the requirement stipulated by SEB). Project Head would be responsible for regular calibration of the meter.
3. SCADA system connected to individual WECs for online monitoring.
4. The invoices are cross-checked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



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.

The details of the calibration are mentioned in the table 4 below:

Table 4: Meter calibration detail

Customer Name	Site	Lo c No.	Capa city	Meter Serial Number	Calibration Dates			
G. B. Rubber Products	Kadvekhurd	1	1.6	04760188	08-Sep-11			
G. B. Rubber Products	Kadvekhurd	2		04760188	08-Sep-11			
Shah Lulla Estate Developers	Kadvekhurd	4	0.8	04760188	08-Sep-11			
Liberty Oil Mills Ltd.	Kadvekhurd	6	2.4	04760188	08-Sep-11			
Liberty Oil Mills Ltd.	Kadvekhurd	7		04760188	08-Sep-11			
Liberty Oil Mills Ltd.	Kadvekhurd	8		04760188	08-Sep-11			
Liberty Oil Mills Ltd.	Varekarwadi	1	1.6	04760189	26-Aug-11			
Liberty Oil	Varekarwadi	2		04760189	26-Aug-			

Customer Name	Site	Lo c No.	Capa city	Meter Serial Number	Calibration Dates			
Mills Ltd.					11			
Paceman Sales Promotion P. Ltd.	Bhambarwadi	36	0.8	04862746	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Delta Enterprises	Bhambarwadi	37	1.6	04862746	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Delta Enterprises	Bhambarwadi	38		04862746	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Delta Enterprises	Bhambarwadi	19	0.8	04862746	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	53	4.8	04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	54		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	55		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	56		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	57		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	61		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	62	2.4	04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	63		04862746	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Bhambarwadi	60		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mahanagar Developers	Panchpatta	30	0.8	04862984	28-Jul-10	14-Jun-11		
Kishor Food Products P. Ltd.	Bhambarwadi	47	0.8	04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Mr. J. P. Patel	Panchpatta	95	0.8	04862987	28-Jul-10	14-Jun-11		
Mr. C. P. Patel	Panchpatta	84	0.8	04862987	28-Jul-10	14-Jun-11		
Mr. V. V. Patel	Panchpatta	80	0.8	04862987	28-Jul-10	14-Jun-11		
Mr. J. V. Patel	Panchpatta	83	0.8	04862987	28-Jul-10	14-Jun-11		
Mr. S. V. Patel	Panchpatta	94	0.8	04862987	28-Jul-10	14-Jun-11		
Mr. V. L. Patel	Panchpatta	76	0.8	04862987	28-Jul-10	14-Jun-11		
Laxmi Narayan Best Chiwda	Panchpatta	81	0.8	04862987	28-Jul-10	14-Jun-11		
New Sahyadri Industries Ltd.	Panchpatta	74	1.6	04862989	28-Jul-10	14-Jun-11		

Customer Name	Site	Lo c No.	Capa city	Meter Serial Number	Calibration Dates			
New Sahyadri Industries Ltd.	Panchpatta	75		04862989	28-Jul-10	14-Jun-11		
Mr. P. L. Patel	Panchpatta	45	0.8	04862978	28-Jul-10	14-Jun-11		
Elpro International	Panchpatta	52	0.8	04862978	28-Jul-10	14-Jun-11		
Prachar Energy	Panchpatta	31	1.6	04862984	28-Jul-10	14-Jun-11		
Prachar Energy	Panchpatta	32		04862984	28-Jul-10	14-Jun-11		
D. J. Malpani	Panchpatta	47	1.6	04862978	28-Jul-10	14-Jun-11		
D. J. Malpani	Panchpatta	48		04862978	28-Jul-10	14-Jun-11		
International Conveyors Ltd.	Panchpatta	51	0.8	04862978	28-Jul-10	14-Jun-11		
Shreem Capacitors Pvt. Ltd.	Bhambarwadi	50	3.2	04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Shreem Capacitors Pvt. Ltd.	Bhambarwadi	51		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Shreem Capacitors Pvt. Ltd.	Bhambarwadi	52		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Shreem Capacitors Pvt. Ltd.	Bhambarwadi	58		04862747	21-Jun-10	20-Dec-10	18-Mar-11	22-Jun-11
Metalfab Hightech Private Limited	Panchpatta	46	0.8	04862978	28-Jul-10	14-Jun-11		
Atlas Tours & Travels Pvt. Ltd.	Kadvekhurd	5	0.8	04760188	08-Sep-11			
Om Shanti Wind Farms P. Ltd.	Aundhewadi	82	0.8	04862987	28-Jul-10	14-Jun-11		
Gargi Construction Co. Pvt. Ltd.	Panchpatta	49	1.6	04862978	28-Jul-10	14-Jun-11		
Gargi Construction Co. Pvt. Ltd.	Panchpatta	50		04862978	28-Jul-10	14-Jun-11		
Mohite & Mohite	Panchpatta	59	2.4	04862978	28-Jul-10	14-Jun-11		
Mohite & Mohite	Panchpatta	60		04862978	28-Jul-10	14-Jun-11		
Mohite & Mohite	Panchpatta	61		04862978	28-Jul-10	14-Jun-11		

Customer Name	Site	Lo c No.	Capa city	Meter Serial Number	Calibration Dates			
Indiana Engineering Works (Bombay) P. Ltd.	Panchpatta	33	1.6	04862984	28-Jul-10	14-Jun-11		
Indiana Engineering Works (Bombay) P. Ltd.	Panchpatta	34		04862984	28-Jul-10	14-Jun-11		
Welpack Industries Ltd.	Panchpatta	29	0.8	04862984	28-Jul-10	14-Jun-11		
Sunilkumar Ramanlal Shah	Panchpatta	77	0.8	04862987	28-Jul-10	14-Jun-11		

Note: As per Guidelines for assessing compliance with the calibration frequency requirements, (EB 52 Annex 60) Section B (Cases where calibration is not conducted at the frequency specified by the methodology, monitoring plan or the CDM Executive Board guidance and/or monitoring plan) para 4 (a) states that: "Applying the maximum permissible error of the instrument to the measured values, if the results of the delayed calibration do not show any errors in the measuring equipment, or if the error is smaller than the maximum permissible error; "

For the period where calibration certificate are not available error factor has been applied.

The error Factor is applied for site Kadvekhurd for period Oct-10 to Sep-11 & Varekarwadi for period Oct-10 to August-11.

4 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

4.1 Baseline Emissions

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

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

BE_y - Baseline Emissions in year y (t CO_2)

$EG_{BL,y}$ - Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)

$EF_{CO_2,grid,y}$ - CO_2 emission factor of the grid in year y (t CO_2/MWh)

$$BE_y = 88348.069 * 0.9058975$$

$$BE_y = 79,803$$

4.2 Project Emissions

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

$$PE_y = 0$$

4.3 Leakage

There is no leakage to this project so $LE_y = 0$

4.4 Summary of GHG Emission Reductions and Removals

S. No.	Loc No	Customer Name	Total Net Export kWh (Oct-2010 to Nov-2011)	Total VCUs	Crediting Period Start Date	Total Working Hours (from Oct-10 till Nov-11)	PLF (from Oct-10 till Nov-11)
1	1	G. B. Rubber Products	2853291.00	2578.00	01-Apr-2006	10224	17.44%
2	4	Shah Lulla Estate Developers	1654730.00	1493.00	01-Apr-2006	10224	20.23%
3	6, 7 & 8	Liberty Oil Mills Ltd.	8539052.00	7722.00	01-Apr-2006	10224	20.88%
4	36	Paceman Sales Promotion P. Ltd.	1675462.00	1511.00	01-Apr-2006	10224	20.48%
5	19,38	Delta Enterprises	2870792.00	2593.00	15-Jun-2006	10224	19.12%
6	37	Delta Enterprises	1821584.00	1643.00	01-Apr-2006		
7	53,55,56,57,61	Mahanagar Developers	6164373.00	5579.00	05-Jan-2007	10224	15.50%
8	54,62,60	Mahanagar Developers	3046352.00	2752.00	06-Mar-2007		
9	63	Mahanagar Developers	1488982.00	1344.00	05-Jan-2007		
	30	Mahanagar Developers-1	1977194.00	1784.00	28-Feb-2007		
10	47	Kishor Food Products P. Ltd.	1730274.00	1562.00	10-Dec-2008	10224	21.15%
11	95	Mr. J. P. Patel	1636239.00	1474.00	29-Mar-2007	10224	20.00%
12	84	Mr. C. P. Patel	2013422.00	1816.00	31-Mar-2007	10224	24.62%
13	80	Mr. V. V. Patel	2295562.00	2074.00	31-Mar-2007	10224	28.07%
14	83	Mr. J. V. Patel	1971232.00	1779.00	29-Mar-2007	10224	24.10%
15	94	Mr. S. V. Patel	1821217.00	1644.00	29-Mar-2007	10224	22.27%

16	76	Mr. V. L. Patel	1656389.00	1493.00	29-Mar-2007	10224	20.25%
17	81	Laxmi Narayan Best Chiwda	2140518.00	1930.00	29-Mar-2007	10224	26.17%
18	74, 75	New Sahyadri Industries Ltd.	3582398.00	3239.00	27-Jan-2007	10224	21.90%
19	45	Mr. P. L. Patel	1343147.00	1210.00	06-Feb-2007	10224	16.42%
20	52	Elpro International	1612309.00	1454.00	30-Dec-2007	10224	19.71%
21	31,32	Prachar Energy	3793812.00	3429.00	03-Mar-2007	10224	23.19%
22	47, 48	D.J. Malpani	3133624.00	2835.00	30-Dec-2006	10224	19.16%
23	51	International Conveyors Ltd.	1528902.00	1377.00	30-Dec-2006	10224	18.69%
24	50,51,52,58	Shreem Capacitors Pvt. Ltd.	6147417.00	5561.00	10-Dec-2008	10224	18.79%
25	46	Metalfab Hightech Private Limited	1487375.00	1341.00	06-Feb-2007	10224	18.18%
26	5	Atlas Tours & Travels Pvt. Ltd.	1202849.00	1082.00	01-Apr-2006	10224	14.71%
27	82	Om Shanti Wind Farms P. Ltd.	1931339.00	1741.00	31-Mar-2007	10224	23.61%
28	49, 50	Gargi Construction Co. Pvt. Ltd.	3316676.00	2998.00	30-Dec-2006	10224	20.28%
29	59, 60 & 61	Mohite & Mohite	4439746.00	4014.00	30-Dec-2006	10224	18.09%
30	33, 34	Indiana Engineering Works (Bombay) P. Ltd.	3896940.00	3523.00	03-Mar-2007	10224	23.82%
31	29	Welpack Industries Ltd.	1684400.00	1520.00	28-Feb-2007	10224	20.59%
32	77	Sunilkumar Ramanlal Shah	1890470.00	1708.00	30-Mar-2008	10224	23.11%

Vintage	VCUs
01/10/2010 to 31/12/2010	10807.00
01/01/2011 to 30/11/2011	68996.00
TOTAL	79803.00

5 ADDITIONAL INFORMATION

The Net Export is calculated, the values are calculated as the difference of the electricity exported to the grid & electricity imported from the grid, and both the values are taken from credit break up & Daily Generation Report.