

GROUPED WIND POWER PROJECT IN INDIA

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Project Title	"Grouped Wind Power Project in India"
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Monitoring Period	5 th Monitoring Period 01-11-2011 to 31-12-2013 (first and last days included)
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¹

<https://vcsprojectdatabase2.apx.com/myModule/Interactive.asp?Tab=Projects&a=2&i=429&lat=17%2E016667&lon=74%2E583333&bp=1>

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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

Purpose of the project activity:

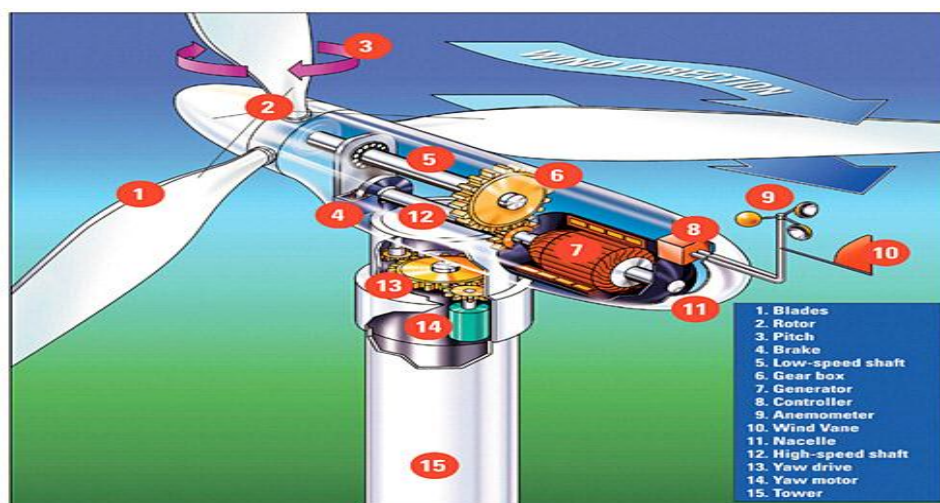
The present bundled project activity deals with generation of electricity using wind energy by Wind Turbine Generator (WTG). The project utilizes wind energy for generating electricity which otherwise would have been generated through operation of or new addition of alternate fuels (fossil fuel) based power plants in regional grid, which would lead to GHG emissions. The project contributing to reduction in specific emissions (pollutants generated from energy generation) including GHG emissions. Apart from generation of renewable electricity, the project has also conceived for the following:

- To enhance the propagation of commercialisation of wind turbines in the region
- To contribute to the sustainable development of the region, socially, environmentally and economically
- To reduce the prevalent regulatory risk for this project through revenues from emission trade

Brief description of the installed technology and equipments:

The wind turbine converts wind's kinetic energy into electricity. This project activity based on an environmentally safe technology provided by the various wind technology suppliers i.e. NEPC, Pioneer Wincon, Suzlon Ltd., NEG Micon, GamesaEolica. The aggregate capacity of project is 74.9 MW consisting 68.875 MW grid-connected and 6.025 MW captive renewable electricity generations. The project activity involves 72 project promoters which comprises installation of total 111 No's WTGs ranging from 0.225 to 1.5 MW.

In wind energy generation, kinetic energy of wind is converted into mechanical energy and subsequently into electrical energy. Wind has considerable amount of kinetic energy when blowing at high speeds. The wind (Kinetic Energy) when it passes through the blades of the wind turbines, it is converted into mechanical energy and rotates the wind blades. When the wind blades rotate, the connected generator also rotates, thereby produce electricity.



Schematic Diagram of WTG

Further M/s Jsons Foundry Private Limited & M/s Western Precicast Pvt. Ltd has withdrawn their eight WTGs for Tamil Nadu site of capacity 1.8 MW (8X 0.225 MW) of HTSC No. 1445, 0.225 MW of HTSC No. 2159 and 0.225 MW of HTSC No. 2163 from “Grouped Wind Power Project in India” for entire crediting period² during monitoring period July 2010 to Oct 2011. Hence the project activity consists of total 103 numbers of WTGs, Provide by various technology suppliers as below:

Sr. No	Technology Supplier	WTG (MW)	Capacity	No. of WTGs	Total installed Capacity (MW)
1	NEPC	0.225		18	4.05
2	Pioneer Wincon	0.25		2	0.5
3	Suzlon	0.35		8	2.8
4	NEPC	0.5		1	0.5
5	Suzlon	0.6		39	23.4
6	NEG MICON	0.75		4	3
7	GamesaEolica	0.85		1	0.85
8	Suzlon	1.25		28	35
9	Suzlon	1.5		2	3
		Total		103	73.10

All the above WTGs in the project have been developed indigenously and no transfer of technology is involved.

Total emission reductions achieved in this monitoring period.

The total emission reductions achieved in this monitoring period i.e. from 01/11/2011 to 31/12/2013 is 2,20,512tCO₂e..

1.2 Sectoral Scope and Project Type

Project Type: I – Renewable Energy Projects
 Sectoral Scope: 1Energy industries (renewable - / non-renewable sources)
 Project is not grouped project activity as per VCS guidelines.

1.3 Project Proponent

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²The letter of withdrawal of PP has been provided to DOE for verification.

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Contact person	Mr. Murugesan
Title	Director
Address	32/2, BMC House, Halls Road, Egmore, Chennai - 8
Telephone	91-9787100712
Email	

Roles/responsibilities for the project proponent(s):

- Review the overall performance of project.
- Preparing & submitting supporting documents for Verification of VERs.
- Management of all electricity generation data.

1.4 Other Entities Involved in the Project

Organization name	MITCON Consultancy & Engineering Services Ltd.
Role in the project	Consultant
Contact person	Mr. Deepak Zade
Title	Sr. Vice Precedent

Address	Behind DIC Office, Agri College Campus, Shivajinagar, Pune - 411 005
Telephone	09822684106
Email	deepak.zade@mitconindia.com

Role & Responsibility of MITCON:

Verification of data –Calculation of VERs based on issued credit report/JMR report and preparation of carbon credit procedural documents

1.5 Project Start Date

Project start date: 14/03/2004. [Based on commissioning date of M/s Free India Energy Ltd (J225) in the grouped project activity]

1.6 Project Crediting Period

Crediting period start date: 01/04/2006 to 31/03/2016 (renewable at most two time)

Project registration date: 17/11/2009

First verification period: 01/04/2006 to 31/12/2007

Second Verification Period: 01/01/2008 to 31/07/2009

Third Verification Period: 01/08/2009 to 30/06/2010

Fourth Verification Period: 01/07/2010 to 31/10/2011

Fifth Verification Period (Current): 01/11/2011 to 31/12/2013

The project has a fixed crediting period of 10 years which is renewable for at most one times. The start date of the crediting period of the project activity is 01/04/2006.

1.7 Project Location

Details of the location of the project activity:

Sr. No.	Name of Project Promoter	WTG Unique ID No.	GPS coordinates	WTG location-Village	District
1	Pragati Agencies	G-316	17°01'N 74°35'E	Dahiwadi	Sangli
2	Umang Textiles	W-06	17°08'N 74°59'E	Nagaj	Sangli
3	Ankur Textiles	W-19	17°08'N 74°59'E	Shelkewadi	Sangli
4	Vandana Textiles	W-20	17°08'N 74°59'E	Kundlapur	Sangli
5	Sun Irrigation System (P) Ltd.	W-18	17°08'N 74°59'E	Shelkewadi	Sangli
6	Jathar Textiles Pvt Ltd.	W-22	17°08'N 74°59'E	Kundlapur	Sangli
7	B. C. Chadrashkhar	W-26	17°08'N 74°59'E	Kundlapur	Sangli
8	B.C. Shivakumar	W-52	17°08'N 74°59'E	Garjewadi	Sangli

Sr. No.	Name of Project Promoter	WTG Unique ID No.	GPS coordinates	WTG location-Village	District
9	Aerolex Cablenet	G-324	17°08'N 74°59'E	Jarandi	Sangli
10	B. S. Channabasappa & Sons	G-334	17°08'N 74°59'E.	Tisangi	Sangli
11	Air Control (India) Pvt. Ltd.,	GP-99	16°46'N 73°86'E	Sonawade	Sangli
12	Bengal Cardboard Industries & Printers Pvt. Ltd.	K-318	20°98'N 73°86'E	Aichale	Dhule
13	Chaphekar Engineering Pvt. Ltd.	GP-42	16°46'N 73°86'E	Shirsatwadi	Sangli
14	Economic Explosives Limited.	K -505	16°36'N 74°25'E	Vavad	Nandurbar
15	Jsons Founry Private Limited	GP102	17°01'N 74°35'E	Sonawade	Sangli
16	Jsons Founry Private Limited	GP101	17°01'N 74°35'E	Sonawade	Sangli
17	Jsons Founry Private Ltd.	GP31	17°01'N 74°35'E.	Charan	Sangli
18	Western Precicast Pvt Limited	K -437	21°11'N 74°13'E	Chakla	Nandurbar
19	Metal Link Alloys Limited	K -258	16°46'N 73°86'E	Amkhel	Dhule
20	Naik Sea Foods Limited	K -308	20°98'N 74°31'E	Aichale	Dhule
21	RDS Construction Company	K -322	20°98'N 74°31'E	Aichale	Dhule
22	Silverline Investment Co. Pvt. Ltd.	K-317	20°98'N 74°31'E	Aichale	Dhule
23	Sushila Overseas,	W-23	17°01'N 74°31'E	Shelkewadi	Sangli
24	Vostok (Fareast) Securities Pvt. Ltd.	K-309	20°98'N 74°31'E	Aichale	Dhule
25	Shree Ambica Auto Sales & Service	G-87	17°11' N 74°21'E	Jarandi	Sangli
26	Unirose Textile Processors Pvt. Ltd.	W-60	16°51' N 74°35'E	Tisangi	Sangli
27	B. S. C. Textiles	W-62	16°51' N 74°35'E	Tisangi	Sangli
28	P. Vijaya Kumar	W-30	16°51' N 74°35'E	Wagholi	Sangli
29	B. C. Umapathy (smaller HUF)	W-34	16°51' N 74°35'E	Nagaj	Sangli
30	P. Mohan Lal	W-33	16°51' N 74°35'E	Wagholi	Sangli
31	S. K. Veerbhadrappa & Co	W-04	16°51' N 74°35'E	Shelkewadi	Sangli
32	SreeVeerbhadrashwara Rice & Flour Mill	W-47	16°51' N 74°35'E	Garjewadi	Sangli
33	GEM Lab. Pvt. Ltd.	K-252	20°58' N 74°19'E	Amkhel	Dhule
34	GEM Lab. Pvt. Ltd.	J-119	20°58' N 74°19'E	Panhalipada	Dhule
35	Sri Anjaneya Cotton Mills Pvt. Ltd.	K-255	20°59' N 74°19'E	Amkhel	Dhule
36	Sri Anjaneya Cotton Mills Pvt. Ltd.	K-261	20°59' N 74°19'E	Amkhel	Dhule
37	Harshita Sales Corporation.	W-54	16°51' N 74°35'E	Garjewadi	Sangli

Sr. No.	Name of Project Promoter	WTG Unique ID No.	GPS coordinates	WTG location-Village	District
38	Ushahkal Nursing Home	W-15	16°51' N 74°35'E	Nagaj	Sangli
39	Mahabal Auto Ancillaries Pvt Ltd	G-360	16°52' N 74°34'E	Birenwadi	Sangli
40	Mahabal Metals Pvt. Ltd	K-536	21°11' N 74°13'E	Akrale	Nandurbar
41	MahalaxmiInfraprojects Limited	K-340	21°11' N 74°19 'E	Gangapur	Nandurbar
42	Agarwal Packaging Pvt. Ltd.	G-206	16°59' N 74°07 'E	Kundalpur	Sangli
43	Agarwal Packaging Pvt. Ltd.	GP-36	16°59' N 74°07 'E	Panumbre	Sangli
44	Choudhary Exports	J-082	20°54' N 74°47' E	Jamde	Dhule
45	Runwal Developers Pvt. Ltd	K-06	21°11' N 74°19 'E	Khori	Dhule
46	Runwal Developers Pvt. Ltd	K-12	21°11' N 74°19 'E	Khori	Dhule
47	Kulkarni Power Tools Ltd.	J-078	21°16' N 73°56 'E	Jamde	Dhule
48	P.M.P. Textiles Spinning Mills Limited	497	11°00' N 76°06'E	Anthiyur	Coimbatore
49	RCR Eco-Power	1163	08°16' N 77°42'E	Veppilankulam	Tirunelveli
50	RCR Eco-Power	1163	08°16' N 77°42'E	Myvadi	Tirunelveli
51	RCR Eco-Power	1202	08°16' N 77°42'E	Myvadi	Tirunelveli
52	RCR Eco-Power	2156	08°16' N 77°42' E	Thandayarkul um	Tirunelveli
53	RCR Eco-Power	2442	08°16' N 77°42' E	Kulayaneri	Tirunelveli
54	Shankarlal	2149	08°16' N 77°42' E	Veppilankulum	Tirunelveli
55	B. S. C. Textiles	1870	08°16' N 77°42' E	Veppilankulum	Tirunelveli
56	B. S. C. Textiles	1871	08°16' N 77°42' E	Perungudi	Tirunelveli
57	B. S. C. Textiles	2116	08°16' N 77°42' E	Perungudi	Tirunelveli
58	P. Vijaya Kumar	1904	08°16' N 77°42' E	Perungudi	Tirunelveli
59	P. Vijaya Kumar	1496	08°16' N 77°42' E	Thandayarkul um	Tirunelveli
60	O. B. Agarwal	2147	08°16' N 77°42' E	Veppilankulum	Tirunelveli
61	Radha-Mohan Processors	1872	08°16' N 77°42' E	Veppilankulum	Tirunelveli
62	Swadeshi Dyeing & Bleaching Mills Private Limited	1875	08°16' N 77°42' E	Veppilankulum	Tirunelveli
63	B. S. Channabasappa& Sons	1874	08°16' N 77°42' E	Veppilankulum	Tirunelveli
64	B. S. Channabasappa& Sons	1873	08°16' N 77°42' E	Veppilankulum	Tirunelveli
65	B. S. Channabasappa& Sons	2117	08°16' N 77°42' E	Veppilankulum	Tirunelveli
66	P. Mohan Lal	1740	08°16' N 77°42' E	Thandayarkul um	Tirunelveli
67	P. Mohan Lal	1505	08°16' N 77°42' E	Thandayarkul um	Tirunelveli
68	Operational Energy group India (P) Pvt Ltd	1242	08°16' N 77°42'E	Veppilankulum	Tirunelveli

Sr. No.	Name of Project Promoter	WTG Unique ID No.	GPS coordinates	WTG location-Village	District
69	Operational Energy group India (P) Pvt Ltd	1242	08°16' N 77°42'E	Veppilankulum	Tirunelveli
70	Mahalingashetty & Co. Ltd.	D 62	10°21' N 77°57' E	Rajampatti	Dindigul
71	Sri Venkatachalapathy Spinning Mills Pvt. Ltd.	1602	08° 44' N 77°42'E	Karuvantha	Tirunelveli
72	Sri Venkatachalapathy Spinning Mills Pvt. Ltd.	16093	08° 44' N 77°42'E	Karuvantha	Tirunelveli
73	Choudhary Exports	1191	11° 21' N 77°44'E	Govindpuram	Erode
74	Ramraj Handlooms	1176	08°10' N 77°34' E	Karungulam	Tirunelveli
75	Ramraj Handlooms	1057	09°48' N 77°19' E	Uthupalayam	Erode
76	Ramraj Handlooms	1961	08°18' N 77°27' E	Azhagiapandi apuram	Tirunelveli
77	N. Sumati	401	10°58' N 77°17' E	Sellakarachal	Coimbatore
78	K. R. Nagarajan	400	10°58' N 77°17' E	Sellakarachal	Coimbatore
79	Air Control (India) Pvt. Ltd.,	SEL/600 /07-08/0906	21°63' N 69°06'E	Kuchhadi	Porbandar
80	Badawe Engineers Pvt. Ltd.	SEL/600 /07-08/0922	21°63' N 69°6' E	Kuchhadi	Porbandar
81	Pragati Glass Pvt. Ltd.,	SEL/125 0/06-07/0237	22°46' N 70°06'E	Lamba	Jamnagar
82	Siddharth Infra Tech Pvt. Ltd (Siddharth Construction)	SEL/600 /07-08/0904	21°63' N 69°60' E	Kuchhadi	Porbandar
83	Agarwal Enterprises	SEL/600 /07-08/0979	21°38' N 69°36' E	Visawada	Porbandar
84	Agarwal Enterprises	SEL/600 /07-08/0980	21°38' N 69°36' E	Visawada	Porbandar
85	Unique Sugars Ltd.	SEL/150 0/06-07/0441	23°11' N 68°54' E	Suthri	Kutch
86	Jaychandra Agro Industries Pvt. Ltd.	SEL/600 /06-07/0443	23°11' N 68°59'E	Sandhan	Kutch
87	Shree Ram Hotels	J-363	26°55' N 70°39'E	Pohra	Jaisalmer
88	Chhabra Syncotex Ltd	J-414	26°53' N 71°00'E	Sadiya	Jaisalmer
89	Chhabra Syncotex Ltd.	J-166	26°55' N 70°51'E	Barabaug	Jaisalmer
90	Chhabra Syncotex Ltd.	J-367	26°55' N 70°39'E	Pohra	Jaisalmer
91	Sona Processors (India) Ltd.	J-370	26°55' N 70°39'E	Pohra	Jaisalmer
92	Delhi Rajasthan Transport	J-141	26°55' N 70°51'E	Barabaug	Jaisalmer

Sr. No.	Name of Project Promoter	WTG Unique ID No.	GPS coordinates	WTG location-Village	District
	Co. Ltd.				
93	Metro Cement and Mines Pvt. Ltd.	J-160	26°55' N 70°51'E	Barabaug	Jaisalmer
94	SarvodayaSutings Ltd	J-49	26°91'N 70°90'E	Baramsar	Jaisalmer
95	SarvodayaSutings Ltd	J-43	26°91'N 70°90'E	Baramsar	Jaisalmer
96	Free India Energy Ltd	J225	22°28' N70°04'E	Soda	Jaisalmer
97	S C Shettar and Sons	K-303	15°12' N 75°53'E	Kappatgudda	Gadag
98	Swarna Constructions	K-304	15°12' N 75°53'E	Kappatgudda	Gadag
99	Suresh Kumar Sharma (HUF)	K-229	15°25' N 75°38'E	Kappatgudda	Gadag
100	BEML Limited	K-317	15°25' N 75°38'E	Bidnahal, Kappatgudda hills	Gadag
101	BEML Limited	K-318	15°25' N 75°38' E		Gadag
102	BEML Limited	K-319	15°25' N 75°38' E		Gadag
103	BEML Limited	K-320	15°25' N 75°38' E		Gadag

1.8 Title and Reference of Methodology

Monitoring Methodology

According to UNFCCC guideline and Voluntary Carbon Standard (VCS 3.4), the project falls under Large-scale projects activity and details for monitoring methodology

Title: “Consolidated baseline methodology for grid-connected electricity generation from Renewable Sources” ACM 0002 – Version 10, EB 47

Sectoral Scope: 1, Energy industries (Renewable / non-renewable sources)

Type :Renewable Energy Project (Large Scale)

Reference : The methodology refers to ACM 0002 to the latest approved version of following tools-

“Tool for the demonstration and assessment of additionality” version 05.2

“Tool to calculate the emission factor for an electricity system” version 01.1

1.9 Other Programs

Not Applicable

2 IMPLEMENTATION STATUS

2.1 Implementation Status of the Project Activity

Sr. No.	Name of Project Promoter	Installed Capacity (MW)	Commissioning Date	Village	District
Maharashtra					

Sr. No.	Name of Project Promoter	Installed Capacity (MW)	Commissioning Date	Village	District
1	Pragati Agencies	1.25	31/03/2006	Dahiwadi	Sangli
2	Umang Textiles	0.6	21/06/2006	Nagaj	Sangli
3	Ankur Textiles	0.6	30/03/2006	Shelkewadi	Sangli
4	Vandana Textiles	0.6	31/03/2006	Kundlapur	Sangli
5	Sun Irrigation System (P) Ltd.	0.6	30/03/2006	Shelkewadi	Sangli
6	Jathar Textiles Pvt. Ltd.	0.6	31/03/2006	Kundlapur	Sangli
7	B. C. Chadrashekhkar	0.6	19/05/2006	Kundlapur	Sangli
8	B.C. Shivakumar	0.6	19/05/2006	Garjewadi	Sangli
9	Aerolex Cablenet	1.25	28/03/2006	Jarandi	Sangli
10	B. S. Channabasappa& Sons	1.25	31/03/2006	Tisangi	Sangli
11	Air Control (India) Pvt. Ltd.	0.6	31/03/2008	Sonawade	Sangli
12	Bengal Cardboard Industries & Printers Pvt. Ltd.	0.6	01/11/2006	Aichale	Dhule
13	Chaphekar Engineering Pvt. Ltd.	0.6	30/12/2006	Shirsatwadi	Sangli
14	Economic Explosives Limited	1.25	31/03/2006	Vavad	Nandurbar
15	Jsons Foundry Private Limited	0.6	05/08/2008	Sonawade	Sangli
16	Jsons Foundry Private Limited	0.6	19/04/2008	Sonawade	Sangli
17	Jsons Foundry Private Limited	0.6	28/03/2007	Charan	Sangli
18	Western Precicast Pvt Ltd	1.25	29/03/2006	Chakla	Nandurbar
19	Metal Link Alloys Ltd.	1.25	26/05/2006	Amkhel	Dhule
20	Naik Sea Foods Ltd.	0.6	08/11/2006	Aichale	Dhule
21	RDS Construction Company	0.6	08/11/2006	Aichale	Dhule
22	Silverline Investment Co. Pvt. Ltd.	0.6	01/11/2006	Aichale	Dhule
23	Sushila Overseas,	0.6	19/05/2006	Shelkewadi	Sangli
24	Vostok (Fareast) Securities Pvt. Ltd.	0.6	20/12/2006	Aichale	Dhule
25	Shree Ambica Auto Sales & Service	1.25	31/07/2006	Jarandi	Sangli
26	Unirose Textile Processors Pvt. Ltd.	0.6	18/08/2006	Tisangi	Sangli
27	B. S. C. Textiles	0.60	29/09/2006	Tisangi	Sangli
28	P. Vijaya Kumar	0.60	29/09/2006	Wagholi	Sangli
29	B. C. Umapathy (smaller HUF)	0.60	29/09/2006	Nagaj	Sangli
30	P. Mohan Lal	0.60	29/09/2006	Wagholi	Sangli
31	S. K. Veerbhadrappa& Co	0.60	29/09/2006	Shelkewadi	Sangli
32	SreeVeerbhadrashwara Rice & Flour Mill	0.60	29/09/2006	Garjewadi	Sangli
33	GEM Lab. Pvt. Ltd.	1.25	11/05/2006	Amkhel	Dhule
34	GEM Lab. Pvt. Ltd.	1.25	16/08/2006	Panhalipada	Dhule
35	Sri Anjaneya Cotton Mills Pvt. Ltd.	1.25	23/03/2006	Amkhel	Dhule
36	Sri Anjaneya Cotton Mills Pvt. Ltd.	1.25	29/03/2006	Amkhel	Dhule
37	Harshita Sales Corporation	0.60	30/09/2006	Garjewadi	Sangli
38	Ushahkal Nursing Home	0.60	26/09/2006	Nagaj	Sangli
39	Mahabal Auto Ancillaries Pvt. Ltd	1.25	25/03/2006	Birenwadi	Sangli
40	Mahabal Metals Pvt. Ltd	1.25	29/03/2007	Akrale	Nandurbar
41	MahalaxmiInfraprojects Limited	1.50	09/03/2007	Gangapur	Nandurbar

Sr. No.	Name of Project Promoter	Installed Capacity (MW)	Commissioning Date	Village	District
42	Agarwal Packaging Pvt. Ltd.	1.25	29/09/2005	Kundalpur	Sangli
43	Agarwal Packaging Pvt. Ltd.	0.6	30/12/2006	Panumbre	Sangli
44	Choudhary Exports	1.25	08/11/2006	Jamde	Dhule
45	Runwal Developers Pvt. Ltd.	1.25	31/03/2004	Khori	Dhule
46	Runwal Developers Pvt. Ltd.	1.25	25/03/2005	Khori	Dhule
47	Kulkarni Power Tools Ltd.	1.25	29/09/2006	Jamde	Dhule
48	P.M.P. Textiles Spinning Mills Limited	0.5	09/09/2004	Anthiyur	Coimbatore
49	RCR Eco-Power	0.225	22/03/2005	Veppilankulam	Tirunelveli
50	RCR Eco-Power	0.225	22/03/2005	Veppilankulam	Tirunelveli
51	RCR Eco-Power	0.35	31/03/2006	Myvadi	Tirunelveli
52	RCR Eco-Power	0.35	15/02/2007	Thandayarkulam	Tirunelveli
53	RCR Eco-Power	0.6	27/09/2007	Kulayaneri	Tirunelveli
54	Shankarlal	0.225	03/02/2007	Veppilankulam	Tirunelveli
55	B. S. C. Textiles	0.225	31/03/2006	Veppilankulam	Tirunelveli
56	B. S. C. Textiles	0.225	31/03/2006	Veppilankulam	Tirunelveli
57	B. S. C. Textiles	0.225	19/12/2006	Veppilankulam	Tirunelveli
58	P. Vijaya Kumar	0.225	21/04/2006	Perungudi	Tirunelveli
59	P. Vijaya Kumar	0.225	30/09/2005	Thandayarkulam	Tirunelveli
60	O. B. Agarwal	0.225	03/02/2007	Veppilankulam	Tirunelveli
61	Radha-Mohan Processors	0.225	31/03/2006	Veppilankulam	Tirunelveli
62	Swadeshi Dyeing & Bleaching Mills Private Limited	0.225	31/03/2006	Veppilankulam	Tirunelveli
63	B. S. Channabasappa& Sons	0.225	31/03/2006	Veppilankulam	Tirunelveli
64	B. S. Channabasappa& Sons	0.225	31/03/2006	Veppilankulam	Tirunelveli
65	B. S. Channabasappa& Sons	0.225	19/12/2006	Veppilankulam	Tirunelveli
66	P. Mohan Lal	0.225	29/03/2006	Thandayarkulam	Tirunelveli
67	P. Mohan Lal	0.225	30/09/2005	Thandayarkulam	Tirunelveli
68	Operational Energy group India (P) Pvt Ltd	0.225	30/03/2005	Veppilankulam	Tirunelveli
69	Operational Energy group India (P) Pvt Ltd	0.225	31/03/2005	Veppilankulam	Tirunelveli
70	Mahalingashetty& Co. Ltd.	0.6	28/03/2007	Rajampatti	Dindigul
71	Sri Venkatachalapathy Spinning Mills Pvt. Ltd.	0.75	13/03/2006	Karuvantha	Tirunelveli
72	Sri Venkatachalapathy Spinning Mills Pvt. Ltd.	0.75	27/03/2006	Karuvantha	Tirunelveli
73	Choudhary Exports	1.25	30/03/2006	Govindpuram	Erode
74	Ramraj Handlooms	0.85	24/03/2005	Karungulam	Tirunelveli
75	Ramraj Handlooms	0.75	30/12/2005	Uthupalayam	Erode
76	Ramraj Handlooms	0.75	31/07/2006	Azhagiapandipuram	Tirunelveli
77	N. Sumati	0.25	29/03/2005	Sellakarachal	Coimbatore

Sr. No.	Name of Project Promoter	Installed Capacity (MW)	Commissioning Date	Village	District
78	K. R. Nagarajan	0.25	29/03/2005	Sellakarachal	Coimbatore
79	Air Control (India) Pvt. Ltd.	0.6	29/03/2008	Kuchhadi	Porbandar
80	Badawe Engineers Pvt. Ltd.	0.6	29/03/2008	Kuchhadi	Porbandar
81	Pragati Glass Pvt. Ltd.,	1.25	28/02/2007	Lamba	Jamnagar
82	Siddharth Infra Tech Pvt. Ltd	0.6	29/03/2008	Kuchhadi	Porbandar
83	Agarwal Enterprises	0.6	29/03/2008	Visawada	Porbandar
84	Agarwal Enterprises	0.6	29/03/2008	Visawada	Porbandar
85	Unique Sugars Ltd.	1.5	02/04/2007	Suthri	Kutch
86	Jaychandra Agro Industries Pvt. Ltd.	0.6	02/05/2007	Sandhan	Kutch
87	Shree Ram Hotels	0.35	30/03/2006	Pohra	Jaisalmer
88	ChhabraSyncotex Ltd.	0.6	15/03/2008	Sadiya	Jaisalmer
89	ChhabraSyncotex Ltd.	0.6	29/03/2007	Barabaug	Jaisalmer
90	ChhabraSyncotex Ltd.	0.35	30/03/2006	Pohra	Jaisalmer
91	Sona Processors (India) Ltd.	0.35	30/03/2006	Pohra	Jaisalmer
92	Delhi Rajasthan Transport Co. Ltd.	0.35	18/10/2006	Barabaug	Jaisalmer
93	Metro Cement and Mines Pvt. Ltd.	0.6	29/03/2007	Barabaug	Jaisalmer
94	SarvodayaSuitings Ltd	0.35	30/09/2004	Baramsar	Jaisalmer
95	SarvodayaSuitings Ltd	0.35	31/03/2004	Baramsar	Jaisalmer
96	Free India Energy	1.25	14/03/2004	Soda	Jaisalmer
97	S C Shettar and Sons	1.25	17/03/2008	Kappatgudda	Gadag
98	Swarna Constructions	1.25	31/03/2008	Kappatgudda	Gadag
99	Suresh Kumar Sharma (HUF)	1.25	23/09/2006	Harogiri/Kappatgudda	Gadag
100	BEML Limited	1.25	20/12/2007	Bidnahal, Kappatgudda hills	Gadag
101	BEML Limited	1.25	20/12/2007		Gadag
102	BEML Limited	1.25	20/12/2007		Gadag
103	BEML Limited	1.25	20/12/2007		Gadag
	Total	73.10			

All the WTGs are running satisfactorily during the reported monitoring period. There are no special events occur during the reported monitoring period. Hence, no impact occurs on the GHG reduction from the project activity. Also there has no change in the mode of sale (i.e. sale to grid and captive use), from grid sale to captive and from captive to grid sale during this crediting period for any PP.

The project activity is implemented in line with the registered VCS PD. There is no change in the installed capacity of the installed WTGs and the electricity generated from the WTG is exported to grid, captive use and some WTG are wheeling the electricity. Hence the project activity is in compliance as envisaged in the VCS PD.

Further M/s Jsons Foundry Private Limited & M/s Western Precicast Pvt. Ltd has withdrawn their eight WTGs for Tamil Nadu site of capacity 1.35 MW (6 X 0.225 MW) of HTSC No. 1445, 0.225 MW of HTSC No. 2159 and 0.225 MW of HTSC No. 2163 from "Grouped Wind Power Project in India" for entire crediting period³ during monitoring period July 2010 to Oct 2011.

³The letter of withdrawal of PP has been provided to DOE for verification.

Following project promoters has sold their WTGs from Tamil Nadu site to BMC Company in March 2013. The details are as follows.

Sr. No.	Project Promoters	Unique Identification No	Capacity	Location of WTG
1	Shankarlal	2149	0.225	Village: Veppilankulum District: Tirunelveli State: Tamil Nadu
2	B. S. Channabasappa & Sons	1874	0.225	
3	B. S. Channabasappa & Sons	1873	0.225	
4	B. S. Channabasappa & Sons	2117	0.225	

2.2 Deviations

2.2.1 Methodology Deviations

Not Applicable

2.2.2 Project Description Deviations

Due to withdrawal of WTGs of M/s Jsons Foundry Private Limited and M/s Western Precicast Pvt. Ltd capacity of project was reduce from 74.90 MW to 73.10 MW during previous monitoring period i.e. July 2010 to Oct 2011.

As there has been change in periodicity of the calibration which is not under control of the PP and as methodology does not specify calibration periodicity as per CDM project standard guidelines, the national guidelines for calibration have been applied. As per this CEA guideline, energy meter calibration is valid upto 5 years from date of previous calibration⁴.

2.3 Grouped Project

The project is not a grouped project activity as per VCS guidelines.

3 DATA AND PARAMETERS

3.1 Data and Parameters Available at Validation

Data / Parameter	$EF_{grid, CM, y}$
Data unit	t CO ₂ / MWh
Description	Combined Margin CO ₂ emission factor of the NEWNE and Southern Grid
Source of data	CO ₂ Baseline Database for the Indian Power Sector User

⁴http://www.cea.nic.in/reports/regulation/meter_reg.pdf

	Guide, Version 04 Central Electricity Authority (CEA), Govt. of India.						
Value applied:	<table border="1"> <tr> <th>Regional Grid</th><th>EF_{grid, CM, y}</th></tr> <tr> <td>NEWNE Regional Grid</td><td>0.906 tCO₂/MWh</td></tr> <tr> <td>Southern Regional Grid</td><td>0.927 tCO₂/MWh</td></tr> </table>	Regional Grid	EF _{grid, CM, y}	NEWNE Regional Grid	0.906 tCO ₂ /MWh	Southern Regional Grid	0.927 tCO ₂ /MWh
Regional Grid	EF _{grid, CM, y}						
NEWNE Regional Grid	0.906 tCO ₂ /MWh						
Southern Regional Grid	0.927 tCO ₂ /MWh						
Justification of choice of data or description of measurement methods and procedures applied	Calculated from CO ₂ Baseline Database for the Indian Power Sector User Guide, Version 04 Central Electricity Authority (CEA), Govt. of India.						
Purpose of the data	Data are used for baseline emission calculation						
Comments	--						

3.2 Data and Parameters Monitored

Data / Parameter	EGy
Data unit	kWh
Description	Net electricity generated and delivered to the grid by WTG in year 'y'
Source of data	Data is obtained from the State Electricity Board (SEB)'s official source to use from - • Maharashtra State – MSEDCL • Gujarat – GUVNL • Rajasthan – JVVNL • Tamil Nadu – TNEB • Karnataka - KPTCL
Description of measurement methods and procedures to be applied	Monitoring: Tri-vector meter will be used for monitoring Data Type: Measured & signed Jointly by State utility officials & PPs representative. Frequency: Hourly measured Recording: Monthly from Main meter at state utility substation Archiving Policy: Paper & Electronic Responsibility: Project Head would be responsible for regular calibration of the meter. Calibration Frequency: Annually, as per the schedule mentioned in PPA
Frequency of monitoring/recording	Continuous monitoring and monthly recording
Value monitored:	2,41,969
Monitoring equipment	Please refer Appendix-II for monitoring equipment details. From this monitoring period for all WTGs CEA guidelines as per http://www.cea.nic.in/reports/regulation/meter_reg.pdf has been applied and wherever required error factor as per VVS guidelines has been applied.
QA/QC procedures to be	The project electricity generation is based on the net units

applied	displaced as measured by main metering system installed at the interconnection point (substation point) and losses are calculated for respective states whichever is applicable. The net electricity exported to the grid is cross checked electricity sales receipt (Invoice).
Purpose of the data	Calculation of baseline emissions
Calculation method	Please refer section 3.3 wherever applicable
Comments	Data will be archived during the whole crediting period + 2 years

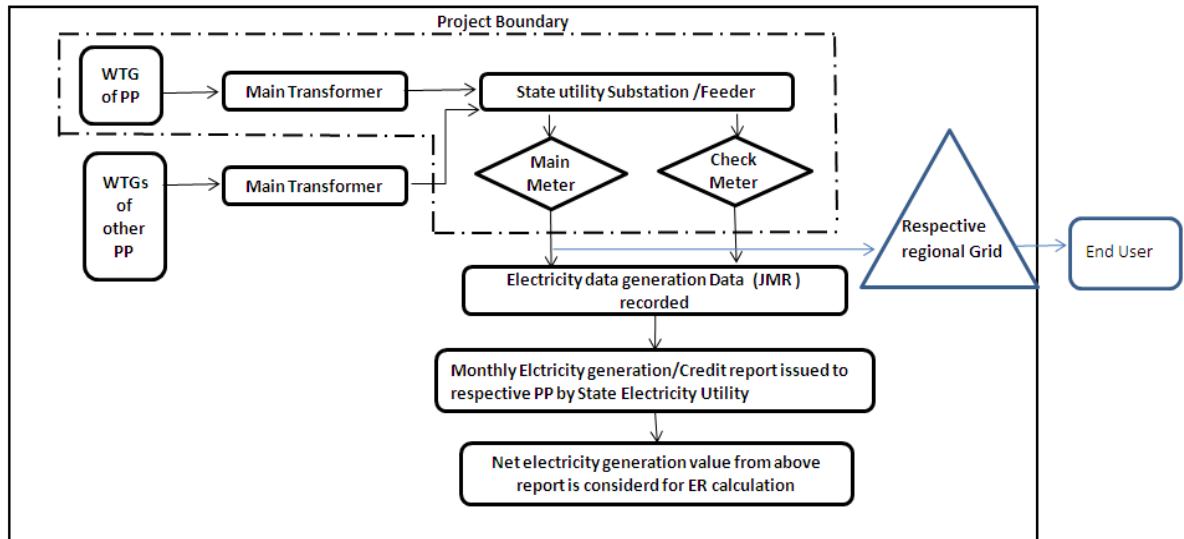
3.3 Monitoring Plan

I) Data collection, aggregation, recording, calculation and reporting procedure:

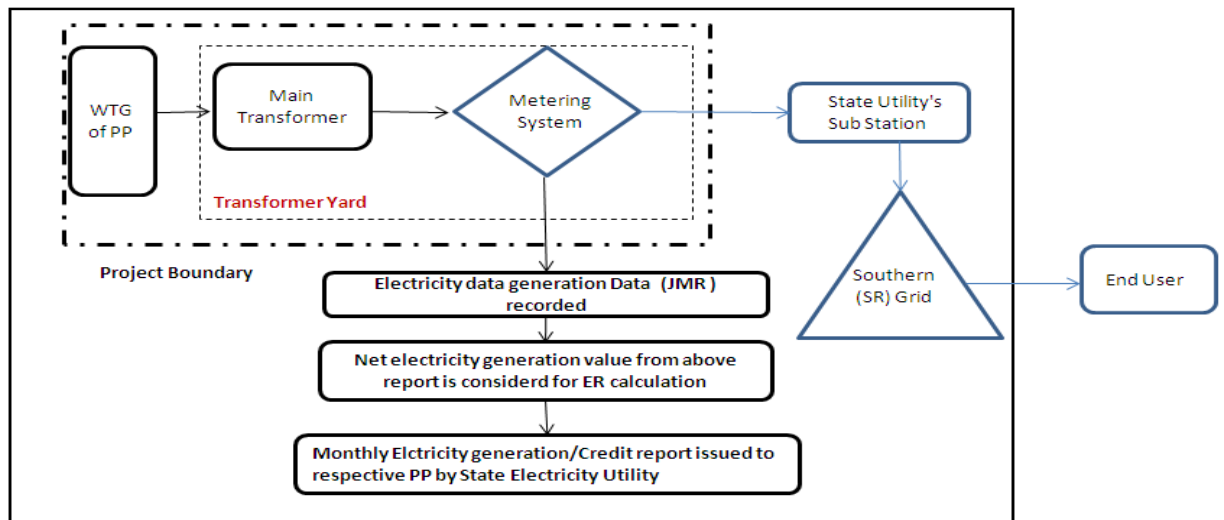
Monitoring of electricity generation was carried out continuously with trivector electronic meter. This helps to avoid manual data handling error, material misstatement and gives accurate measurement. . The calibration of monitoring equipments needed to be done as per the regulation of state utility. All monitoring parameters were recorded and verified by the responsible authorities of project participants. For metering & monitoring of the electricity generation from Wind Turbine Generator, the specific method applied was as per the Power Purchase Agreement as outlined below.

- The recording of the electricity exported to the state utility grid is done jointly at the incoming feeder of the state utility.
- The joint meter readings are carried out once in a month in presence of both parties (the developer's representative and officials of the state electricity utility). Meter reading of exported power is signed by both parties. This forms the basis of invoicing.
- Using the signed joint measurement/meter reading, each respective state electricity utility entity, issues electricity generation/credit report to corresponding PP. the credit report shows the amount of electricity exported to the grid and this value in this report is used for calculations emission reductions.

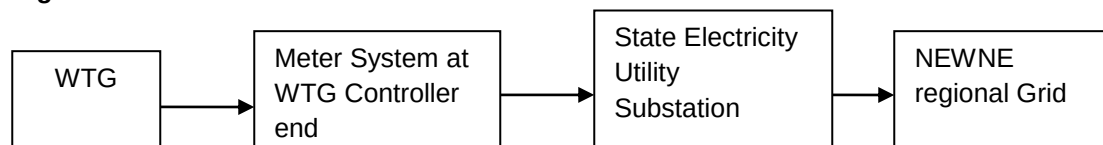
II) Schematic diagram of monitoring system for state of Maharashtra, Rajasthan as shown below:



III) Schematic diagram of monitoring system state of Tamil Nadu and Karnataka as shown below:



IV) The Metering system details of project activity for Gujarat state is illustrate in below figure:



The project promoters signed operation and maintenance agreements with the O & M contractor of the wind turbines. The performance of the turbines, safety in operation and scheduled /breakdown maintenances is the responsibility of O & M contractor and are organized and monitored by them, hence the authority and responsibility of project management on site lies with the O & M contractor who maintains all the data/ records for the project monitoring.

(a) The electricity apportioning procedure followed by state electricity utility in Maharashtra, Rajasthan:

The apportioning procedure followed by state electricity utilities in the two states is explained below:

The gross generation of all 'X' WTGs is G_G (Adding all controllers)

$$G_G = G_1 + G_2 + G_3 + \dots + G_X \text{ (Controller reading)}$$

The G_1 value is electricity (kWh) from respective WTG controller reading.

Total gross export (G_{export}) of electricity to the grid by all WTGs connected to a single joint meter (main meter) measured at substation.

$$G_{\text{export}} = G_{1 \text{ export}} + G_{2 \text{ export}} + G_{3 \text{ export}} + \dots + G_{X \text{ export}}$$

The value of G_{export} is available from joint meter reading (Main meter) reported as per procedure mentioned in section 11.05 of PPA Maharashtra State & Section 4.2 (ii) of PPA Rajasthan state.

Total gross import (G_{import}) of electricity from grid by all WTGs connected to joint meter (main meter) measured at substation.

$$G_{\text{import}} = G_{1 \text{ import}} + G_{2 \text{ import}} + G_{3 \text{ import}} + \dots + G_{X \text{ import}}$$

Hence, the WTG wise electricity generation ($G_{1 \text{ export}}$) breakup is derived as follows-

$$(G_{1 \text{ export}}) = (G_{\text{export}} \times G_1) / G_G$$

Similarly, the WTG wise electricity import ($G_{1 \text{ import}}$) breakup is derived as follows-

$$(G_{1 \text{ import}}) = (G_{\text{import}} \times G_1) / G_G$$

Having derived the electricity exported in to the grid ($G_{1 \text{ export}}$) and electricity imported from the grid ($G_{1 \text{ import}}$) for each WTG, the net electricity export ($G_{1 \text{ net export}}$) is derived as follows:

$$(G_{1 \text{ net export}}) = G_{1 \text{ export}} - G_{1 \text{ import}}$$

The sum total of the net electricity export ($G_{1 \text{ export}} + G_{2 \text{ export}} + G_{3 \text{ export}} + \dots + G_{X \text{ export}}$) value is reported/recorded in the monthly credit report/ generation report form which is used for billing electricity utility. This is the value which is referred as Electricity generated by the project activity and used for calculating emission reductions for the project.

The electricity apportioning procedure followed by State Electricity utility in State of Gujarat

The system consists of a state-of-the-art controlling and monitoring and well trained staff personnel of O & M contractor. O & M staff is always present on the site to monitor various parameters of power generation and deal with any problems related to generation, transmission or maintenance.

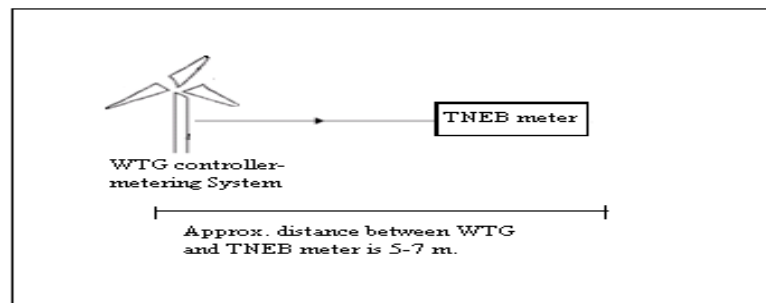
The project activity essentially involves generation of electricity utilizing wind energy. The WTG converts wind energy into electrical energy and does not utilize any other input fuel for electricity generation. The evacuation facility is essentially maintained by the state power utility. The monitoring of the generated electricity would be carried out in two fold.

- a. Electricity generation measured continuously by main meter located adjacent to the WTG in the switchyard and recorded monthly by state utility in presence of representative of client
- b. There is transmission loss between the individual WTG and substation. This loss is proportionally divided among the WTGs connected to the meter on the basis of the prorata reading taken at the individual WTG meter. The final share certificate issued to the project proponent is based on the electricity generated minus losses. This is issued by state utility.
- c. The billing will be on monthly basis project proponent raise invoice and submit to GUVNL for payment based on Joint meter reading (certificate of share of electricity) certified by state utility at the end of each month for the energy supplied.

The electricity apportioning procedure followed by State Electricity utility in State of Tamil Nadu:

The monitoring system consists of monitoring of two parameters:-

- Reading of electricity import & export at the WTG controller.
- Reading of electricity imports & export at the metering point of TNEB., located approximately 5 -7 m. from the WTG. Each WTG has its individual EB meter, installed by the State utility.



Hence there is no need to apportioning of electricity generation in case of Tamil Nadu.

The import & export figure at WTG controller will be recorded in the logbooks of the O & M contractor on a daily basis. This data will be preserved in paper or electronic form. The summary of the generation will be submitted by them to the PP on a daily & monthly basis.

The TNEB meter will be the main source for monitoring net export to the grid. Monthly reading from the TNEB meter will be recorded by the engineers of the state utility in presence of the O & M contractor who represents PP. Subsequently the statement will be prepared.

Hence, $EG_{(Net\ export\ by\ project\ activity)} = EG_{JMR,export} - EG_{JMR,import}$, at TNEB (HTSC) metering point.

The electricity apportioning procedure followed by State Electricity utility in State of Karnataka:

There is no apportioning of electricity generation in case of Karnataka.

Each WTG is equipped with display control panels. All the electricity exported from the WTGs is recorded from the main and check meter installed at metering point near the WTGs. The electricity generated from customers WTG is injected in to Bulk meter at site (maintain by site developer/ contractor) through main and check meter of metering point. Monthly generation of individual metering points are measured with main and check meter. The electricity is then supplied to substation and subsequently to grid

(b) Procedures for handling internal auditing and non-conformities.

An internal audit of the project activity has already been done on a half yearly basis by a special audit team. The audit team has comprised competitive persons. The team was already audited the project for the following aspects among other things:

- Are the monitoring of VCS parameters done in line with the VCS PD Is the documentation of monitored VCS parameters done properly
- Are equipment's calibrated and maintained as scheduled
- Is the quantity of VES generated in line with that projected in the VCS PD, if not, what are the reasons for deviation?
- Are necessary corrective actions being taken to address deviations?
- Check the authenticity of data monitored and recorded by random cross-checking with other sources.

The audit team would submit their observations to Head- Wind Power Projects for his review and necessary action.

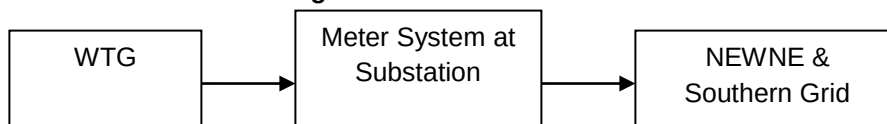
(c) Emergency preparedness procedures:

Each WTG has emergency preparedness procedure in place as per standard utility practices to avoid damage to generating facility, public & material safety, and state utility property. This is a requirement in the PPA (section 5.02 [b] of PPA (Maharashtra), Section 12 of PPA (Tamil Nadu) ,Section 4(viii) of PPA (Rajasthan), Section 7.1 of PPA (Gujarat) and section 7 of PPA (Karnataka). In case of emergency for metering system (Main meter) fails, the corresponding check meter reading is considered for electricity measurement. However, no such event of main meter failure occurred during the monitoring period.

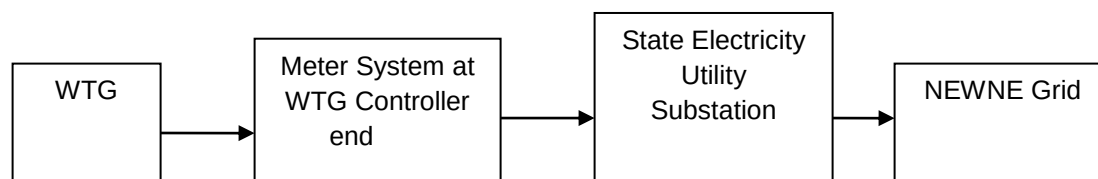
(d) Metering System:

The metering system for the project activity in all the five states can categorize as follows:

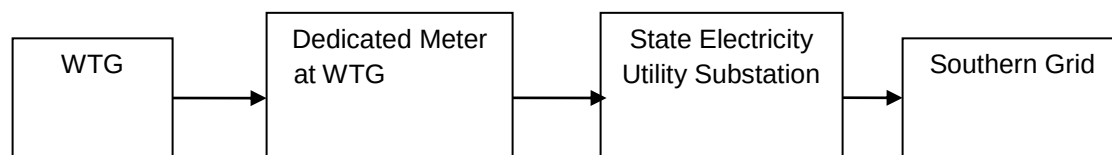
The Metering system of project activity for Maharashtra, Rajasthan and Karnataka State are illustrated in below figure.



The Metering system of project activity for the state of Gujarat is illustrated in below figure.



The Metering system of project activity for state of Tamil Nadu is illustrated in below figure.



(d) Monitoring Roles and Responsibility:

Roles	Responsibilities
PP (Director)	Review the overall performance of project & give directions for improvements.
PP (Project Manager)	Review the performance of project. preparing & submitting the annual reports, supporting documents for validation & verification of VERs
EPC contractor – Site In charge	Judge the performance of project through reports from clerks & plant operators on site. Visits to plant site & instruct to plant operators for improvement in performance. Compile data & reports to available for audit, review the performance of the project
EPC contractor - Clerks	Day to day monitoring, record, report & archive data as received contains overall conditions on wind farm.
EPC contractor - Plant Operators (O & M Staff)	Daily monitoring, checking routine Operation & Maintenance activities, reporting for any major O &M and Preventive Maintenance.
State Electricity Authority	Credit report Generation Calibration of Energy Meters
MITCON Consultancy & Engineering services Ltd (Project Consultant)	Central GHG data management Work as central coordinator for DOE and PP Central role as consultant to every aspect of project

participant has signed an operation and maintenance agreement with the supplier of the wind turbines. The performance of the turbines, safety in operation and scheduled /breakdown maintenances is responsibility of EPC contractor and is organized and monitored by them. So the authority and responsibility of project management lies with the EPC contractor are as follows.

Project Executer and Controller (EPC Contractor):

- Overall functioning of the project activity and co-ordination between supplier and the management of project participant.
- Coordinating with PP/Consultant/Auditors during their site visit for validation/annual verification.
- Requesting/coordinating State Utility for annual calibration behalf of PP

Operation and Maintenance (EPC Contractor):

- Daily monitoring, checking routine Operation & Maintenance activities, reporting for any major O &M and Preventive Maintenance.
- The O&M Team of WTG supplier is responsible for Maintain and Operate the WTG

Site Main Controller (EPC Contractor):

- Site Engineer of EPC Contractor is involved in monitoring the daily/monthly generation recording of controller data, archive of data.

Monthly JMR (joint meter reading) reading taken by state utility & Site engineer of EPC Contractor

4 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

4.1 Baseline Emissions

The Baseline Emission for the project activity was calculated as follows:

$$\begin{array}{lcl} \text{Baseline Emissions}_{(\text{project})} & = & \text{Grid Emission Factor} * \text{Power Generated from the Project} \\ (\text{tons of CO}_2) & & (\text{tons of CO}_2/\text{MWh}) \quad (\text{MWh/year}) \end{array}$$

$$BE_y = EG_y * EF_{\text{grid, CM, y}}$$

Ex-ante Grid (Baseline) Emission Factor:

The baseline emission factor EF_y is calculated as a combine margin (CM) consisting of the combination of operating margin (OM) and build margin (BM) factors.

A calculation of the combined margin is based on data from an official source and it is publically available. As per the applicable methodology, the Combined Margin factor (in $\text{tCO}_2 \text{ e/MWh}$) of current generation mix of NEWNE and Southern Regional grids of India were use for the calculation of baseline. The project has used weights of 0.75 for OM and 0.25 for BM as shown below:

$EF_{\text{grid, CM, y}}$ is determined as follows:

The weighted average of the Operating Margin emission factor ($EF_{\text{grid, OM, y}}$) and the Build Margin emission factor ($EF_{\text{grid, BM, y}}$):

$$EF_{\text{grid, CM, y}} = EF_{\text{grid, OM, y}} \times W_{\text{OM}} + EF_{\text{grid, BM, y}} \times W_{\text{BM}}$$

For wind and solar projects, the default weights are as follows: $W_{\text{OM}} = 0.75$ and $W_{\text{BM}} = 0.25$

For NEWNE Regional Grid ($EF_{\text{grid, CM, y}}$):

$$\begin{aligned} EF_{\text{grid, CM, y}} &= EF_{\text{grid, OM, y}} \times 0.75 + EF_{\text{grid, BM, y}} \times 0.25 \\ &= 1.009 \times 0.75 + 0.5977 \times 0.25 \end{aligned}$$

$$EF_{\text{grid, CM, y}} = 0.906 \text{ t CO}_2/\text{MWh}$$

For Southern Regional Grid ($EF_{\text{grid, CM, y}}$):

$$\begin{aligned} EF_{\text{grid, CM, y}} &= EF_{\text{grid, OM, y}} \times 0.75 + EF_{\text{grid, BM, y}} \times 0.25 \\ &= 0.9985 \times 0.75 + 0.7133 \times 0.25 \\ &= 0.927 \text{ t CO}_2/\text{MWh} \end{aligned}$$

$$EF_{\text{grid, CM, y}} = 0.927 \text{ tCO}_2/\text{MWh}$$

The project proponent wishes to use the $EF_{\text{grid, CM, y}}$ calculated as Ex-ante, and has fixed the same for the entire crediting period.

The relevant grid emission factor as calculated by the CEA Database Version 4 and made available is shown in the table below;

Regional Grid	Baseline emission factor ($EF_{\text{grid, CM, y}}$)
NEWNE Regional Grid	0.906 tCO ₂ /MWh
Southern Regional Grid	0.927 tCO ₂ /MWh

The Baseline Emission for the project activity was calculated as follows:

$$\begin{array}{llll} \text{Baseline Emissions}_{(\text{project})} & = & \text{Grid Emission Factor} & * & \text{Power Generated from the} \\ (\text{tons of CO}_2) & & (\text{tons of CO}_2/\text{MWh}) & & \text{Project} \\ & & & & (\text{MWh/year}) \end{array}$$

$$BE_y = EG_y * EF_y$$

For Maharashtra, Gujarat, and Rajasthan (NEWNE grid) State (01/11/2011 to 31/12/2013 vintage)

$$\begin{aligned} BE_y &= 1,80,645 * 0.906 \\ BE_y &= 1,63,664 \text{ t CO}_2\text{e} \end{aligned}$$

For Karnataka and Tamil Nadu State (01/11/2011 to 31/12/2013 vintage)

$$\begin{aligned} BE_y &= 61,324 * 0.927 \\ BE_y &= 56,848 \text{ t CO}_2\text{e} \end{aligned}$$

Total baseline emission for the project activity (01/11/2011 to 31/12/2013 vintage) is as follows:

$$BE_y = 2,20,512 \text{ t CO}_2\text{e}.$$

4.2 Project Emissions

As wind power projects fall under clean energy sources for electricity generation, the emission from the project is taken as zero.

$$PE_y = 0$$

4.3 Leakage

Leakage estimation is also not required.

$$LE_y = 0$$

4.4 NetGHG Emission Reductions and Removals

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01/11/2011 to 31/12/2011	7,975	0	0	7,975
01/01/2012 to 31/12/2012	1,11,383	0	0	1,11,383
01/01/2013 to 31/12/2013	1,01,154	0	0	1,01,154
Total	2,20,512	0	0	2,20,512

Comparison of actual emission reductions with estimates in the VCS PD

Item	Values applied in ex-ante calculation of the registered VCS-PD	Actual values reached during the monitoring period
Emission reductions (tCO ₂ e)	$(130,195 \times 792) / 365 = 2,82,505$	2,20,512

Remarks on difference from estimated value in the VCS PD

There is no any increase in the actual Emission Reductions achieved during the current monitoring period in comparison with ex-ante emission reduction calculation of the registered VCS PD.

The reason for reduction in VCU's is accounted to the fact of lower PLF during this monitoring period. The major part of the difference is due to poor wind velocity, machine availability and grid availability for the project activity. Also the WTGs of M/s Jsons Foundry Private Limited and M/s Western Precicast Pvt. Ltd were withdrawn from the project activity this may lead to reduce the VCUs.

A wind power project generates power from wind resource. Therefore, wind power generation basically depends on local wind resource, various climatic factors and thus variation in wind resource basically determines the variation in wind power generation which is beyond the control of project promoter.

Plant Load Factor for wind power projects is driven by the wind density and wind speed which in turn are influenced by changes in the wind stress associated with seasonal variations in weather and this variation in wind resource basically determines the variation in wind power generation.

APPENDIX I : EMISSION REDUCTION CALCULATION TABLE

The credit reports, invoices and Calibration certificate for the respective WTG has been examined and wherever the calibration certificate not available as per para VVS para 238 and 239 Guidance has made applicable for that specific period. The value in tables reflects corrected values (Units) of the electricity generation for the particular month with respective WTG

For Detailed Emission Reduction calculation refer VER calculation sheet.

APPENDIX II: MONITORING EQUIPMENT DETAILS

Sr. No.	Project Promoter	WTG Unique ID	Feeder /SS Name	Main meter No.	Check Meter No.	Accuracy class	Calibration		
1	Pragati Agencies	G 316	Ghatnandre Feeder No.3	4738049	4738050	0.2	13/06/2011	valid up to 12/06/2016	
2	Umang Textiles	W 06	Ghatnandre Feeder No.4	14796419	14796420	0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
3	Ankur Textiles	W 19				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
4	Vandana Textiles	W 20				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
5	Sun Irrigation System (P) Ltd.	W 18				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
6	Jathar Textiles Pvt. Ltd.	W 22				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
7	B. C. Chadrashekhar	W 26	Ghatnandre Feeder No.3	4738049	4738050	0.2	13/06/2011	valid upto 12/06/2016	
8	B.C. Shivakumar	W 52		4738049	4738050	0.2	13/06/2011	valid upto 12/06/2016	
9	Aerolex Cablenet	G 324	Ghatnandre Feeder No.1	4738051	4738047	0.2	13/06/2011	valid up to 13/06/2016	
10	B. S. Channabasappa & Sons	G 334	Ghatnandre Feeder No.3	4738049	4738050	0.2	13/06/2011	valid up to 12/06/2016	
11	Air Control (India) Pvt. Ltd.	GP 99	Nigade S/S	4939178	4939179	0.2	Valid up to 03/05/2014		
12	Bengal Cardboard Industries & Printers Pvt. Ltd.	K 318	Jamde Feeder No.6	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013
13	Chaphekar Engineering Pvt. Ltd.	GP 42	Shirashi	13813603	13813604	0.2	20/06/2011	08/10/2012	22/08/2013
14	Economic Explosives Limited	K 505	Nandurbar Feeder No.2	4860905	4890568	0.2	17/09/2011	05/10/2012	30/07/2013
15	Jsons Foundry	GP 102	Nigade S/S	4939178	4939179	0.2	Valid up to 24/03/2014		
16	Private Limited	GP 101				0.2			
17		GP 31	Shirashi	13813603	13813604	0.2	20/06/2011	08/10/2012	22/08/2013
18	Western Precicast Pvt Ltd	K- 437	Gangapur Feeder No.7	4961766	4890563	0.2	17/09/2011	04/10/2012	06/08/2013
19	Metal Link Alloys Ltd.	K-258	Walve Feeder No.1	4725793	4725788	0.2	17/09/2011	04/10/2012	12/08/2013

Sr. No.	Project Promoter	WTG Unique ID	Feeder /SS Name	Main meter No.	Check Meter No.	Accuracy class	Calibration		
20	Naik Sea Foods Ltd.	K 308	Jamde feeder No.6	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013
21	RDS Construction Company	K 322	Jamde feeder No.6	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013
22	Silverline Investment Co. Pvt. Ltd.	K 317	Jamde feeder No.6	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013
23	Sushila Overseas,	W 23	Ghatnandre Feeder No.4	14796419	14796420	0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
24	Vostok (Fareast) Securities Pvt. Ltd.	K 309	Jamde feeder No.06	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013
25	Shree Ambica Auto Sales & Service	G-87	Ghatnandre Feeder No.3	4738049	4738050	0.2	13/06/2011	valid upto 12/06/2016	
26	Unirose Textile Processors Pvt. Ltd.	W-60	Ghatnandre Feeder No.4	14796419	14796420	0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
27	B. S. C. Textiles	W-62				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
28	P. Vijaya Kumar	W-30				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
29	B. C. Umapathy (smaller HUF)	W-34				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
30	P. Mohan Lal	W-33				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
31	S. K. Veerbhadrappa & Co	W-04				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
32	Sree Veerbhadreshwara Rice & Flour Mill	W-47				0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
33	GEM Lab. Pvt. Ltd.	K-252	Walve Feeder No.1	4725793	4725788	0.2	17/09/2011	04/10/2012	12/08/2013
34		J-119	Jamde Feeder No.10	4890562	4863441	0.2	17/09/2011	25/09/2012	28/06/2013
35	Sri Anjaneya Cotton Mills Pvt. Ltd.	K-255	Walve Feeder No.1	4725793	4725788	0.2	17/09/2011	04/10/2012	12/08/2013
36		K-261							
37	Harshita Sales Corporation	W-54	Ghatnandre Feeder No.4	14796419	14796420	0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017
38	Ushahkal Nursing Home	W-15	Ghatnandre Feeder No.4	14796419	14796420	0.2	13/06/2011	18/12/2012	Valid upto 17/12/2017

Sr. No.	Project Promoter	WTG Unique ID	Feeder /SS Name	Main meter No.	Check Meter No.	Accuracy class	Calibration		
39	Mahabal Auto Ancillaries Pvt. Ltd	G-360	Ghatnandre feeder NO.2	4738052	4738053	0.2	13/06/2011	14/12/2012	Valid upto 13/12/2017
40	Mahabal Metals Pvt. Ltd	K-536	Nandurbar Feeder No. 2	4860905	4890568	0.2	17/09/2011	05/10/2012	30/07/2013
41	Mahalaxmi Infraprojects Limited	K-340	Jamde feeder No. 8	4738079	4738067	0.2	17/09/2011	25/09/2012	29/06/2013
42	Agarwal Packaging Pvt. Ltd.	G-206	Savljaj II	4725819	4725818	0.2	NO	05/07/2012	Valid upto 04/07/2017
43		GP-36	Shirashi	13813603	13813604	0.2	20/06/2011	08/10/2012	22/08/2013
44	Choudhary Exports	J-082	Jamde feeder No. 02	4890558	4725804	0.2	17/09/2011	25/09/2012	29/06/2013
45	Runwal Developers Pvt. Ltd.	K-6	Jaitane S/S	4890619	-	0.2	26/09/2011	Validity up to 25/09/2016	
46		K-12	Jamde 16	4890557	4738078	0.2	17/09/2011	04/10/2012	28/06/2013
47	Kulkarni Power Tools Ltd.	J 078	Jamde feeder No.06	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013
48	P.M.P. Textiles Spinning Mills Limited	497		2369490	-	0.2	8/8/2008	Error factor applied from 07/08/2013 to 31/12/2013	
49	RCR Eco-Power	1163		4691173	-	0.5	19/06/2008	NA	
50						0.5			
51						0.5			
52						0.5			
53						0.5			
54	S.K.Parikh (Shankarlal)	2149		4865454	-	0.5	22/10/2008	NA	
55	B. S. C. Textiles	1870		4804657	-	0.5	Valid up to 21/01/2014		
56		1871		4804511	-	0.5			
57		2116		4863797	-	0.5			
58	P. Vijaya Kumar	1904		4804768	-	0.5	Valid up to 6/2/2014		
59		1496		4721812	-	0.5	27/02/2008	Error factor applied from 27/02/2013 to 31/12/2013	
60	O. B. Agarwal	2147		4865447	-	0.5	Valid up to 21/01/2014		
61	Radha-Mohan Processors	1872		4804510	-	0.5	Valid up to 21/01/2014		
62	Swadeshi Dyeing & Bleaching Mills Private Limited	1875		4804507	-	0.5	Valid up to 21/01/2014		
63	B. S.	1874		4804611	-	0.5	Valid up to 21/01/2014		
64	Channabasappa	1873		4804616	-	0.5	Valid up to 21/01/2014		

Sr. No.	Project Promoter	WTG Unique ID	Feeder /SS Name	Main meter No.	Check Meter No.	Accuracy class	Calibration		
65	&Sons	2117		8040602	-	0.5	23/12/2008	Data availability only up to Dec 2012. Error not applied as calibration valid up to 22 Dec 2013	
66	P. Mohan Lal	1740		4726644	-	0.5	7/2/2009	Error factor applied from 07/02/2013 to 31/12/2013	
67		1505		4721936	-	0.5	27/02/2008	Error factor applied from 27/02/2013 to 31/12/2013	
68	Operational Energy group India (P) Pvt Ltd	1242		2110855	-	0.5	30/12/2011	Valid up to 29/12/2016	
69						0.5			
70	Mahalingashetty & Co. Ltd.	D 62		4881023	-	0.5	06/12/2011	03/12/2012	02/12/2013
71	Sri Venkatachalapathy Spinning Mills Pvt. Ltd.	1602		TNBO3937	-	0.5	09/12/2010	Valid upto 08/12/2015	
72		1693		4955010	-	0.5	09/12/2010	Valid upto 08/12/2015	
73	Choudhary Exports`	1191		4726626	-	0.5	NO	22/02/2012	Valid upto 21/02/2017
74	Ramraj Handlooms	1176		4863795	-	0.5	NO	31/03/2012	Valid upto 30/03/2017
75		1057		4954285	-	0.5	NO	02/04/2012	Valid upto 01/04/2017
76		1961		TNU04852	-	0.5	NO	10/03/2012	Valid upto 09/03/2017
77	N. Sumati	401		4889952	-	0.2	NO	27/01/2012	Valid upto 26/01/2017
78	K. R. Nagarajan	400		4691183	-	0.5	Valid up to 21/09/2014		
79	Air Control (India) Pvt. Ltd.	SEL/600/0 7-08/0906	Kuchhadi	GJB01104	-	0.2	Valid up to 14/06/2014		
80	Badawe Engineers Pvt. Ltd.	SEL/600/0 7-08/0922	Kuchhadi	GJB01099	-	0.2	08/07/2011	21/07/2012	Valid upto 20/07/2017
81	Pragati Glass Pvt. Ltd.,	SEL/1250/ 06-07/0237	Gandhvi	GJU03922	-	0.2	03/07/2011	28/07/2012	Valid upto 27/07/2017
82	Siddharth Infra Tech Pvt. Ltd	SEL/600/0 7-08/0904	Kuchhadi	GJB01101	-	0.2	08/07/2011	21/07/2012	Valid upto 20/07/2017
83	Agarwal Enterprises	SEL/600/0 7-08/0979	Kuchhadi	GJB 01392	-	0.2	11/07/2011	19/07/2012	Valid upto 18/07/2017
84		SEL/600/0 7-08/0980		GJB 01449	-	0.2	11/07/2011	19/07/2012	Valid upto 18/07/2017
85	Unique Sugars	SEL/1500/	Nani Khahar	GJB 01538	-	0.2	06/06/2011	Valid up to 05/06/2016	

Sr. No.	Project Promoter	WTG Unique ID	Feeder /SS Name	Main meter No.	Check Meter No.	Accuracy class	Calibration		
	Ltd.	06-07/0441							
86	Jaychandra Agro Industries Pvt. Ltd.	SEL/600/06-07/0443	Nani Khahar	GJU 04509	-	0.2	19/02/2011	Valid up to 18/02/2016	
87	Shree Ram Hotels	J-363	Amarsagar	RJB 001114	RJB 00101	0.2	07/03/2011	13/03/2012	Valid upto 12/03/2017
88	Chhabra Syncotex Ltd.	J-414	Amarsagar	RJU 02185 ⁵	RJB 00254	0.2	07/03/2011	13/03/2012	Valid upto 12/03/2017
89		J-166	Jaismalmer G	RJU 02185	RJB 00254	0.2	07/03/2011	Valid up to 06/03/2016	
90		J-367	Amarsagar	RJB 001114	RJB 00101	0.2	07/03/2011	13/03/2012	Valid upto 12/03/2017
91	Sona Processors (India) Ltd.	J-370		RJB 001114	RJB 00101	0.2	07/03/2011	13/03/2012	Valid upto 12/03/2017
92	Delhi Rajasthan Transport Co. Ltd.	J-141	Amarsagar	RJU 02185	RJB 00254	0.2	07/03/2011 ₆	13/03/2012	Valid upto 12/03/2017
93	Metro Cement and Mines Pvt. Ltd.	J-160	Amarsagar	RJU 02185	RJB 00254	0.2	07/03/2011	Valid up to 06/03/2016	
94	Sarvodaya	J-49	Amarsagar	RJB 001114	RJB 00101	0.2	07/03/2011	13/03/2012	Valid upto 12/03/2017
95	Suitings Ltd	J-43							
96	Free India Energy	J225	Amarsagar	RJB00316	RJB00316	0.2	Valid up to 27/01/2014		
97	S C Shettar and Sons	K-303	Gutal	7041083	7041084	0.2	30/08/2011	02/06/2012	Valid upto 01/06/2017
98	Swarna Constructions	K-304	Gutal	7041085	7041086	0.2	30/08/2011	02/06/2012	Valid upto 01/06/2017
99	Suresh Kumar Sharma (HUF)	K-229	Dambal	6605175	6605176	0.2	16/06/2011	02/06/2012	Valid upto 01/06/2017
100	BEML Limited	K-317	Bagewadi	7041078	7041079	0.2	30/08/2011	16/06/2012	Valid upto 15/06/2017
101		K-318							
102		K-319							
103		K-320							

⁵ For more details, please refer Credit report & JMR of Oct 2011.

⁶ For more details, please refer Monitoring Report for 3rd Monitoring Period from 01/08/2009 to 30/06/2010