

## Observations and Suggestions of “ Wind Zone Classification and Evaluation Committee”

Meeting of Wind Zone Classification and Evaluation Committee held on **04/07/2016** at MEDA, under chairmanship of Shri. U. M. Pande, Chairman and Sr. General Manager (Adm. & Pub.). Following Committee Members were present for the meeting:-

1	Shri. U. M. Pande	Sr. General Manager (Adm. & Pub.)	Chairman
2	Shri. M. A. Pise	General Manager ((PG-I/IDD)	Member
3	Shri. Purushottam Jadhav	General Manager (Co-ordination)	Member
4	Shri. S. V. Gore	Assistant Director (Finance)	Member
5	Shri. S. R. Patil	Manager (IDD)	Member Secretary

The Committee Scrutinised and evaluated the Wind zone classification proposals. The observation and suggestions for respective proposals submitted by developers/investors are as below.

➤ **Developer:- M/s.Panama Wind Energy Pvt. Ltd, Pune**

- **Site:- Mirkala, Tal. Gevrai, Dist. Beed (Vetted by NIWE for M/s. Panama Wind Energy Godawari Pvt. Ltd).**
- **Investor:- M/s. Panama Wind Energy Godawari Pvt. Ltd -22MW (11x2MW).** The project is commissioned during the financial year 2014-15.
- As per site visit on dtd. 2/6/2016 Mirkala of Shri. R.M. Garad, Project Executive, Amaravati, MEDA the WTG location wise observations are as below:-

Sr. No. / (A.N)	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap.	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev.	Forest Comp/Survey	Village Taluka District	Distance from Ref. wind mast in km		Diff. betwn. Ref. wind mast and	Within /Above (+/-) 60 m elev. difference
					De	Min	Sec	De	Min	Sec					Pvt. Mast	NIWE/ MEDA		
				MW							MASL in m.		/ Gut No.				WTG Elev. (m.)	Recommendation
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8-9)	15
					De	Min	Sec	De	Min	Sec		Mirkala		Mirkala/ Gevrai/ Beedi	Mirkala (Panama)	Mirkala		Within (+/-) 60 m elev. difference
1 (5)	C-413	G-05	Beed/Mirkala /Gamesa/ 2.0MW/D/ 14-15/4248	2.0	19	13	35.6	75	41	23.5	540	590	90	Khopti Gevrai Beedi	2.15	5.13	-52	Within (+/-) 60 m elev. difference
2 (14)	C-414	G-14	Beed/Mirkala /Gamesa/ 2.0MW/D/ 14-15/4242	2.0	19	12	50.3	75	42	24.3	584	590	73	Manmodi Gevrai Beedi	0.32	2.88	-6	Within (+/-) 60 m elev. difference
3 (15)	C-414	G-15	Beed/Mirkala /Gamesa/ 2.0MW/D/ 14-15/4243	2.0	19	12	59.5	75	42	10.7	606	590	68	Manmodi Gevrai Beedi	0.46	3.37	1	Within (+/-) 60 m elev. difference

4 (17)	C-414	G-17	Beed/Mirkala/Gamesa/2.0MW/D/14-15/4246	2.0	19	13	22.4	75	41	58.5	595	590	46,58	Manmodi Gevrai Beedi	1.24	4.08	0	Within (+/-) 60 m elev. difference
5 (22)	C-414	G-22	Beed/Mirkala/Gamesa/2.0MW/D/14-15/4244	2.0	19	13	54.1	75	41	28.0	567	590	97	Khothi Gevrai Beedi	2.52	5.41	-34	Within (+/-) 60 m elev. difference
6 (23)	C-413	G-23	Beed/Mirkala/Gamesa/2.0MW/D/14-15/4247	2.0	19	13	46.5	75	41	03.2	538	590	247	Rajarampuri Gevarai Beedi	2.82	5.81	-53	Within (+/-) 60 m elev. difference
7 (26)	C-412	G-26	Beed/Mirkala/Gamesa/2.0MW 14-15/4249	2.0	19	12	39.9	75	37	28.7	560	590	354	Bengali Pimpala Gevarai Beedi	8.36	11.02	-44	Within (+/-) 60 m elev. difference
8 (27)	C-412	G-27	Beed/Mirkala/Gamesa/2.0MW 14-15/4250	2.0	19	13	09.6	75	40	21.9	570	590	72,73	Shindkhed Gevrai Beedi	3.38	6.32	-30	Within (+/-) 60 m elev. difference
9 (28)	C-412	G-28	Beed/Mirkala/Gamesa/2.0MW 14-15/4251	2.0	19	13	25.3	75	39	28.7	547	590	69	Kombadwadi Gevrai Beedi	5.01	7.94	-50	Within (+/-) 60 m elev. difference
10 (32)	C-412	G-32	Beed/Mirkala/Gamesa/2.0MW 14-15/4252	2.0	19	12	16.2	75	37	44.6	534	590	425	Sushi Gevrai Beedi	7.94	10.49	-31	Within (+/-) 60 m elev. difference
11 (38)	C-411	G-38	Beed/Mirkala/Gamesa/2.0MW 14-15/4245	2.0	19	12	49.8	75	38	8.7	547	590	107	Sushi Gevrai Beedi	7.19	9.91	-39	Within (+/-) 60 m elev. difference

**observations:-**

- There is NIWE declared nearby MEDA mast at location - Mirakala Taluka - Gevarai District - Beed (Latitude- **N 19° 11' 54"** Longitude- **E 75° 43' 43"** Elev.- **577 m** masl) having **WPD- 211.0 watt/m<sup>2</sup> @ 50 m AGL**. @ 5.81 km adjacent to the above mentioned wind power project.
- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Mirkala, Tal. Gevarai, District. Beed (Latitude- **N 19° 12' 45.24"** Longitude- **E 75° 42' 14.82"** Elev.- **590 m** amsl) having **WPD- 159.23 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for M/s. Panama Wind Energy Godawari Pvt. Ltd vide their letter no.C-WET/WRA/061/2013-2014 dated 03.09.2014.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.

➤**Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to M/s Panama Wind Energy Godawari Pvt. Ltd, for their **22MW (11x2MW)** capacity 11 WTG's wind power project as per above list.

➤**Old Inspection report :**As per site visit on Dated 26/3/2014 Mirkala of Shri. H. D. Shinde, Manager (WRA/WZ) the WTG location wise observations are as below:

Sr. No. / (A.N)	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap.	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev.	Forest Comp/Survey	Village Taluka District	Distance from Ref. wind mast in km		Diff. between Ref. wind mast and	Remarks
				MW							MASL in m.		/ Gut No.		Pvt. Mast	NIWE/ MEDA	WTG Elev. (m.)	
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8-9)	15
					De g	Min	Sec	De g	Min	Sec		Mirkala		Mirkala/ Gevrai/ Beedi	Mirkala (Panama)	Mirkala		Within (+/-) 60 m elev. difference
1 (5)	C-413	PG-05	Beed/Mirkala /Gamesa/2.0MW/ D/14-15/4248	2	19	13	35.6	75	41	23.7	538	590	90	Khopti Gevrai Beedi	2.15	5.13	-52	Within (+/-) 60 m elev. difference
2 (14)	C-414	PG-14	Beed/Mirkala /Gamesa/2.0MW/ D/14-15/4242	2	19	12	50.3	75	42	24.4	584	590	73	Manmo di Gevrai Beedi	0.32	2.88	-6	Within (+/-) 60 m elev. difference
3 (15)	C-414	PG-15	Beed/Mirkala /Gamesa/2.0MW/ D/14-15/4243	2	19	12	59.6	75	42	10.8	591	590	68	Manmo di Gevrai Beedi	0.46	3.37	1	Within (+/-) 60 m elev. difference
4 (17)	C-414	PG-17	Beed/Mirkala /Gamesa/2.0MW/ D/14-15/4246	2	19	13	22.3	75	41	58.7	590	590	46,58	Manmo di Gevrai Beedi	1.24	4.08	0	Within (+/-) 60 m elev. difference
5 (22)	C-414	PG-22	Beed/Mirkala /Gamesa/2.0MW/ D/14-15/4244	2	19	13	54	75	41	27.8	556	590	97	Khopti Gevrai Beedi	2.52	5.41	-34	Within (+/-) 60 m elev. difference
6 (23)	C-413	PG-23	Beed/Mirkala /Gamesa/2.0MW/ D/14-15/4247	2	19	13	46.4	75	41	03.4	537	590	247	Rajarampuri Gevarai Beedi	2.82	5.81	-53	Within (+/-) 60 m elev. difference
7 (26)	C-412	PG-26	Beed/Mirkala/ Gamesa/2.0MW 14-15/4249	2	19	12	39.8	75	37	28.8	546	590	354	Bengal Pimpala Gevarai Beedi	8.36	11.02	-44	Within (+/-) 60 m elev. difference
8 (27)	C-412	PG-27	Beed/Mirkala/ Gamesa/2.0MW 14-15/4250	2	19	13	09.5	75	40	21.9	560	590	72,73	Shindkhed Gevrai Beedi	3.38	6.32	-30	Within (+/-) 60 m elev. difference
9 (28)	C-412	PG-28	Beed/Mirkala/ Gamesa/2.0MW 14-15/4251	2	19	13	25.4	75	39	28.7	540	590	69	Kombadwadi Gevrai Beedi	5.01	7.94	-50	Within (+/-) 60 m elev. difference
10 (32)	C-412	PG-32	Beed/Mirkala/ Gamesa/2.0MW 14-15/4252	2	19	12	16.3	75	37	44.6	559	590	425	Sushi Gevrai Beedi	7.94	10.49	-31	Within (+/-) 60 m elev. difference
11 (38)	C-411	PG-38	Beed/Mirkala/ Gamesa/2.0MW 14-15/4245	2	19	12	49.8	75	38	8.8	551	590	107	Sushi Gevrai Beedi	7.19	9.91	-39	Within (+/-) 60 m elev. difference

➤ **Developer:- M/s.Panama Wind Energy Pvt. Ltd, Pune**

- **Site:-** Mirkala, Tal. Gevrai, Dist. Beed (Vetted by NIWE for M/s. Panama Wind Godawari Pvt. Ltd).
- **Investor:-** M/s. Panama Wind Energy Godavari Pvt. Ltd -34MW (17x2MW). The project is commissioned during the financial year 2014-15.

- As per site visit on dtd. 2/6/2016 Mirkala of Shri. Garad, Project Executive, Amravati, MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MAS L in mtrs.	Ref. Mast Elev. MAS L in mtrs.	Forest Comp/Survey/Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betw n. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MAS L in m.		Gut No.		Pvt. Mast	NIWE/ MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec		Mirkal a		Mirkala/Gevrai/ Beedi	Mirkal a (Pana ma)	Mirkal a		
1 (1)	G-20	G-01		2.0	19	11	35.7	75	43	38.4	583	590	97	Mukulwadi Gevrai Beedi	3.25	0.58	-12	Within (+/-) 60 m elev. difference
2 (2)	G-20	G-02		2.0	19	11	12.2	75	42	57.5	587	590	120	Mukulwadi Gevrai Beedi	3.11	1.85	1	Within (+/-) 60 m elev. difference
3 (3)	G-20	G-03		2.0	19	11	49.8	75	43	19.6	595	590	67	Mukulwadi Gevrai Beedi	2.54	0.69	-2	Within (+/-) 60 m elev. difference
4 (4)	G-20	G-04		2.0	19	11	30.2	75	43	13.8	596	590	122	Mukulwadi Gevrai Beedi	2.89	1.11	4	Within (+/-) 60 m elev. difference
5 (6)	G-20	G-06		2.0	19	11	59.1	75	43	35.3	585	590	71	Mukulwadi Gevrai Beedi	2.75	0.28	-11	Within (+/-) 60 m elev. difference
6 (7)	G-20	G-07		2.0	19	11	20.8	75	43	40.8	579	590	100	Mukulwadi Gevrai Beedi	3.62	1.03	-16	Within (+/-) 60 m elev. difference
7 (8)	G-20	G-08		2.0	19	11	59.1	75	43	07.2	589	590	56	Mukulwadi Gevrai Beedi	2.08	1.06	-6	Within (+/-) 60 m elev. difference
8 (9)	G-21	G-09		2.0	19	12	05.0	75	42	36.9	594	590	15	Mukulwadi Gevrai Beedi	1.40	1.95	-2	Within (+/-) 60 m elev. difference
9 (10)	G-20	G-10		2.0	19	12	24.5	75	43	13.3	588	590	50	Mukulwadi Gevrai Beedi	1.82	1.28	-10	Within (+/-) 60 m elev. difference
10 (11)	G-20	G-11		2.0	19	12	38.0	75	43	18.7	593	590	47/48	Mukulwadi Gevrai Beedi	1.88	1.53	-15	Within (+/-) 60 m elev. difference
11 (12)	G-21	G-12		2.0	19	12	23.1	75	42	36.6	593	590	81	Manmodi Gevrai, Beedi	0.93	2.14	-2	Within (+/-) 60 m elev. difference
12 (13)	G-21	G-13		2.0	19	12	36.0	75	42	18.2	595	590	75	Manmodi Gevrai, Beedi	0.30	2.79	-3	Within (+/-) 60 m elev. difference
13 (16)	G-21	G-16		2.0	19	13	17.1	75	42	10.9	598	590	62	Manmodi Gevrai Beedi	0.98	3.71	5	Within (+/-) 60 m elev. difference
14 (18)	G-21	G-18		2.0	19	13	29.9	75	42	29.5	603	590	53.55	Manmodi Gevrai, Beedi	1.43	3.64	4	Within (+/-) 60 m elev. difference
15 (19)	G-21	G-19		2.0	19	13	41.9	75	42	19	599	590	66	Khopati Gevrai Beedi	1.75	4.13	3	Within (+/-) 60 m elev. difference
16 (20)	G-21	G-20		2.0	19	13	45.6	75	42	59.5	590	590	52 (388)	Manyarwadi Gevrai Beedi	2.27	3.65	-10	Within (+/-) 60 m elev. difference
17 (21)	D-9	G-21		2.0	19	14	06.2	75	41	40.4	544	590	104	Khopati Gevrai Beedi	2.68	5.41	-50	Within (+/-) 60 m elev. difference

observations:-

- There is NIWE declared MEDA mast is at location . Mirakala, Taluka . Gevarai, District - Beed (Latitude- N 19° 11' 54'' Longitude- E 75° 43' 43'' Elev.- 577 m

amsl) having **WPD- 211.0 watt/m<sup>2</sup> @ 50 m AGL @ 0.28 km** adjacent to the above mentioned wind power project at

- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Mirkala, Tal. Gevarai, District - Beed (Latitude- N 19° 12' 45.24" Longitude- E 75° 42' 14.82" Elev.- 590 m amsl) having **WPD- 159.23 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for M/s. Panama Wind Energy Godawari Pvt. Ltd vide their letter no. C-WET/WRA/061/2013-2014 dated 03.09.2014.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.
- Above WTGs have directly commissioned by MSEDCL without IC and CC of MEDA.
- **Suggestions :-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to M/s Panama Wind Energy Godawari Pvt. Ltd, for their **34 MW (17 x 2MW)** capacity 17 WTG's wind power project as per above list.

➤ **Old Inspection Report:** As per site visit on dtd. 26/3/2014 Mirkala of Shri. H. D. Shinde, Manager (WRA/WZ) the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev. MASL in mtrs.	Forest Comp/Survey/Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betw. n. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MASL in m.		Gut No.		Pvt. Mast	NIWE/MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec		Mirkala		Mirkala/Gevrai/ Beedi	Mirkal a (Pana ma)	Mirkal a		
1 (1)		G-01		2.0	19	11	35.6	75	43	30.4	578	590	97	Mukulwadi Gevrai Beedi	3.25	0.58	-12	Within (+/-) 60 m elev. difference
2 (2)		G-02		2.0	19	11	12.3	75	42	57.5	591	590	120	Mukulwadi Gevrai Beedi	3.11	1.85	1	Within (+/-) 60 m elev. difference
3 (3)		G-03		2.0	19	11	50.0	75	43	19.7	588	590	67	Mukulwadi Gevrai Beedi	2.54	0.69	-2	Within (+/-) 60 m elev. difference
4 (4)		G-04		2.0	19	11	30.3	75	43	14.5	594	590	122	Mukulwadi Gevrai Beedi	2.89	1.11	4	Within (+/-) 60 m elev. difference
5 (6)		G-06		2.0	19	11	59.2	75	43	35.4	579	590	71	Mukulwadi Gevrai Beedi	2.75	0.28	-11	Within (+/-) 60 m elev. difference
6 (7)		G-07		2.0	19	11	20.6	75	43	40.8	574	590	100	Mukulwadi Gevrai Beedi	3.62	1.03	-16	Within (+/-) 60 m elev. difference
7 (8)		G-08		2.0	19	11	59.2	75	43	07.2	584	590	56	Mukulwadi Gevrai Beedi	2.08	1.06	-6	Within (+/-) 60 m elev. difference

8 (9)		G-09		2.0	19	12	04.9	75	42	37.1	588	590	15	Mukulwadi Gevrai Beedi	1.40	1.95	-2	Within (+/-) 60 m elev. difference
9 (10)		G-10		2.0	19	12	24.4	75	43	13.3	580	590	50	Mukulwadi Gevrai Beedi	1.82	1.28	-10	Within (+/-) 60 m elev. difference
10 (11)		G-11		2.0	19	12	38.0	75	43	18.8	575	590	47/48	Mukulwadi Gevrai Beedi	1.88	1.53	-15	Within (+/-) 60 m elev. difference
11 (12)		G-12		2.0	19	12	23.1	75	42	36.5	588	590	81	Manmodi Gevrai Beedi	0.93	2.14	-2	Within (+/-) 60 m elev. difference
12 (13)		G-13		2.0	19	12	36.1	75	42	18.5	587	590	75	Manmodi Gevrai Beedi	0.30	2.79	-3	Within (+/-) 60 m elev. difference
13 (16)		G-16		2.0	19	13	17.0	75	42	11.0	595	590	62	Manmodi Gevrai Beedi	0.98	3.71	5	Within (+/-) 60 m elev. difference
14 (18)		G-18		2.0	19	13	29.7	75	42	29.6	594	590	53.55	Manmodi Gevrai Beedi	1.43	3.64	4	Within (+/-) 60 m elev. difference
15 (19)		G-19		2.0	19	13	41.9	75	42	19.1	593	590	66	Khopati Gevrai Beedi	1.75	4.13	3	Within (+/-) 60 m elev. difference
16 (20)		G-20		2.0	19	13	45.4	75	42	59.6	580	590	52 (388)	Manyarwadi Gevrai Beedi	2.27	3.65	-10	Within (+/-) 60 m elev. difference
17 (21)		G-21		2.0	19	14	06.2	75	41	40.7	540	590	104	Khopati Gevrai Beedi	2.68	5.41	-50	Within (+/-) 60 m elev. difference

➤ **Developer:- M/s.Suzlon Energy Ltd.**

- **Site:- Jath-2, Tal. Jath, Dist. Sangli (Vetted by NIWE for M/s Suzlon Energy Ltd, Pune).**
- **Investor:- M/s. Sterling Agro Industries Ltd, New Delhi - 8.40MW (4x2100KW).** The project is commissioned during the financial year 2015-16.
- As per site visit on Jath-2 of Shri.H.S. Nimbalkar, Project Executive, Divisional Office, MEDA Kolhapur the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MAS L in m	Ref. Mast Elev. MASL in m.	Forest Comp/Survey/Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betw. n. Ref. wind mast and WTG Elev. (Mtr.)	Remark
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec					Jath-2 (Suzlon)	Mendigiri Elev. Diff.m		
1 (1)	C-429	JTH-104	Sangali/JATH-2/Suzlon/2.1MW/D/15-16/4412	2100	16	55	19.5	75	13	32.6	714	756	1215/ 216	Umarani, Tal- Jath, Dist- Sangali	6.42	-31	42	Within (+/-) 60 m elev. difference
2 (2)	C-429	JTH-107	Sangali/JATH-2/Suzlon/2.1MW/D/15-16/4413	2100	16	55	09.0	75	14	39.5	707	756	1231/ 207/2,208	Umarani Tal- Jath, Dist- Sangali	6.87	-38	49	Within (+/-) 60 m elev. difference
3	C-429	JTH-156	Sangali/JATH-2/Suzlon/2.1MW/D/15-16/4414	2100	16	58	18.3	75	13	41.8	741	756	216	Billur Tal- Jath Dist- Sangali	0.96	-4	15	Within (+/-) 60 m elev. difference
4	F-2	JTH-157	Sangali/JATH-2/Suzlon/2.1MW/D/15-16/4427	2100	16	58	39.6	75	13	37.8	750	756	207/2, 208	Billur Tal- Jath Dist- Sangali	0.49	5	6	Within (+/-) 60 m elev. difference

**Observations:-**

- There is NIWE Chennai declared wind mast within the 10 km radial distance of the above mentioned wind power project is at Village . Mendegiri, Tal. Jath, District -

Sangli (Latitude- N 16° 59' 37.6" Longitude- E 75° 13' 21.9" Elev.- 745 m amsl) having **WPD- 208 W/m<sup>2</sup> @ 50 m AGL** declared by NIWE Chennai .

- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Jath-2, Tal. Jath, District - Sangli (Latitude- N 16° 58' 48.0" Longitude- E 75° 13' 52.3" Elev.- 749 m amsl) having **WPD- 210.96 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for *M/s Suzlon Energy Ltd* vide their letter no. C-WET/WRA/085/2011-2012 dated 09.02.2012.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.

➤ **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to *M/s. Sterling Agro Industries Ltd*, for their **8.40MW (4x2100KW)**. capacity 4 WTG's wind power project as per above list.

➤ **Developer:- M/s.Suzlon Energy Ltd.**

- **Site:-** Jath, Tal. Jath, Dist. Sangli (Vetted by NIWE for *M/s Suzlon Energy Ltd, Pune*).
- **Investor:-** *M/s. KRBL Limited-21.00MW (10x2100KW)*. The project is commissioned during the financial year 2015-16.
- As per site visit on dtd. 1/6/2016 Jath of Shri. H.S. Nimbalkar, Project Executive, Divisional Office, MEDA, Kolhapur the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev. MASL in mtrs.	Forest Comp/Survey/Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betwn. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MASL in mtrs.	m.	Gut No.		Pvt. Mast	NIWE/MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec		Jath			Jath	Mendegiri		
1 (1)	F-3	JTH-001	Sangli/JATH-1/Suzlon/2.1MW/D/15-16/4424	2100	17	04	19.2	75	05	49.9	694m	730	712	Baj, Jath, Sangli	9.13	-51	-36	Within (+/-) 60 m elev. difference
2 (2)	C-428	JTH-003	Sagali/JATH-1/Suzlon/D/44 05/15-16	2100	17	03	45.3	75	05	50.5	696	730	717 & 718	Baj, Jath, sangli	8.39	-49	-34	Within (+/-) 60 m .elev. difference
3 (3)	E-17	JTH-004	Sagali/JATH-1/Suzlon/D/44 06/15-16	2100	17	03	35.3	75	06	03.5	697	730-	451	Bagewadi, Jath, Sangli	7.86	-48	-33	Within (+/-) 60 m elev. difference
4 (5)	E-17	JTH-006	Sagali/JATH-1/Suzlon/D/44 08/15-16	2100	17	03	07.8	75	06	04.2	689	730	459	Bagewadi, Jath, Sangli	7.36	-56	-41	Within (+/-) 60 m elev. difference

5 (4)	E-17	JTH-005	Sangali/JATH-1/Suzlon/D/44 07/15-16	2100	17	03	22.1	75	06	02.1	690	730	454/455	Bagewadi, Jath, Sangli	7.69	-55	-40	Within (+/-) 60 m elev. difference
6 (8)	C-428	JTH-015	Sangali/JATH-1/Suzlon/2.1M W/D/15-16/4409	2100	17	03	09.3	75	06	44.0	695	730	496	Bagewadi, Jath, Sangli	6.47	-50	-35	Within (+/-) 60 m elev. difference
7 (7)	F-3	JTH-013	Sangali/JATH-1/Suzlon/2.1M W/D/15-16/4426	2100	17	02	33.2	75	07	06.9	711	730	323	Belunki, Jath, Sangli	5.25	-34	-19	Within (+/-) 60 m elev. difference
8 (6)	F-3	JTH-012	Sangali/JATH-1/Suzlon/2.1M W/D/15-16/4425	2100	17	02	08.5	75	06	56.9	707	730	364	Belunki, Jath, Sangli	5.07	-38	-23	Within (+/-) 60 m elev. difference
												Sindur			Sindur			
9	C-428	JTH-115	Sangli/JATH-1/Suzlon/D/44 11/15-16	2100	16	53	39.7	75	16	34.5	696	695	372	Umrani, Jath, Sangli	8.19	-49	1	Within (+/-) 60 m elev. difference
10	E-17	JTH-70	Sangali/JATH-1/Suzlon/D/44 10/15-16	2100	16	58	18.5	75	12	18.4	716	749	113	Billur, Jath, Sangli	6.84	-29	-33	Within (+/-) 60 m elev. difference

#### Observations:-

- Wind mast within the 10 km radial distance of the above mentioned wind power project is at Village . Mendegiri, Tal. Jath, District - Sangli (Latitude- N 16° 59' 37.6" Longitude- E 75° 13' 21.9" Elev.- 745 m amsl) having **WPD- 208 W/m<sup>2</sup> @ 50 m AGL** declared by NIWE Chennai .
  - Nearest reference Wind Mast for the above mentioned wind power project (Sr. no. 1 to 8 ) is at Village . Jath, Tal. Jath, District - Sangli (Latitude- N 17° 00' 48.8" Longitude- E 75° 09' 27.5" Elev.- 728 m amsl) having **WPD- 153.10 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for *M/s Suzlon Energy Ltd* vide their letter no. C-WET/WRA/091/2012-2013 dated 25.02.2015.
  - Nearest reference Wind Mast for the above mentioned wind power project (Sr. no. 9 ) is at Village . Sindur, Tal. Jath, District - Sangli (Latitude- N 16° 52' 48.0" Longitude- E 75° 11' 29.9" Elev.- 694 m amsl) having **WPD- 183.32 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for *M/s Suzlon Energy Ltd* vide their letter no. C-WET/WRA/094/2014-2015 dated 20.02.2015.
  - Nearest reference Wind Mast for the above mentioned wind power project (Sr. no. 10 ) is at Village . Jath2, Tal. Jath, District - Sangli (Latitude- N 16° 58' 48.0" Longitude- E 75° 13' 52.3" Elev.- 749 m amsl) having **WPD- 210.96 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for *M/s Suzlon Energy Ltd* vide their letter no. C-WET/WRA/085/2011-12 dated 09.02.2012.
  - As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.
- **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to *M/s. KRBL Ltd*, New Delhi for their **21.00MW (10x2100KW)**. capacity 10 WTG's wind power project as per above list.



➤ **Developer:- M/s. Maruti Wind Park Developers Pvt. Ltd.**

- Site:-Mendhegiri, Tal. Jath, Dist.Sangli (Vetted by NIWE Chennai).
- Investor:- M/s. Giriraj Enterprises, Sangamner -8.00MW (4x2000KW)
- WTG location nos. MV2-T-43, MV2-T-22, MV2-T-27, MV2-T-50.

➤ **Committee in its Meeting** dtd 21/10/2014 recommended to advise the developer M/s Sri Maruti Wind Park Developers Pvt Ltd or to his investor M/s Giriraj Enterprises for obtaining the project specific WPD report from NIWE Chennai for their 8.00MW (4x2000KW) capacity wind power project.

➤ **Accordingly, MEDA vide its letter no. 6215 dtd 28/11/2014 directed to** M/s Giriraj Enterprises for obtaining the project specific WPD report from NIWE Chennai for their 8.00MW (4 x 2000KW) capacity wind power project.

➤ In view of this, M/s Giriraj Enterprises vide their letter no.01 dtd 26.02.2016 submitted report on site specific wind power density (WPD) Map at 50 m agl at Mendhgiri, Dist. Sangli Site prepared by NIWE, Chennai and issued on dtd 17.02.2015 to WTG Manufacturer M/s Inox Wind Infrastructure Services Ltd. In this report, at point no.3, page no. 9, conclusion is briefed as below .

➤ The WPD calculations has been carried out based on the measured 50 m level wind speed data at Mendhegiri site. The estimated WPD at 50 m agl is found to be 165.5 W/m<sup>2</sup> at P-90 confidence level with all relevant corrections.

The site specific WPD estimation is carried out for M/s Inox Wind Infrastructure Services Ltd, Noida and the following WTG locations of M/s Giriraj Enterprises, Sangamner are found to be falling over the said area -

- MV2-T-43, MV2-T-22, MV2-T-27, MV2-T-50.

➤ **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and in view of report on site Specific Wind Power Density (WPD) Map at 50 m agl at Mendhegiri Dist.Sangli Site prepared by NIWE, Chennai, committee suggested to issue the **wind zone - I** letter to M/s Giriraj Enterprises for their **8.0MW (4x2000KW)** capacity wind power project.

➤ **Developer:- M/s. Suzlon Energy Ltd., Pune.**

- Site:- Chakla Tal. Nandurbar Dist. Nandurbar (Vetted by NIWE for M/s. Suzlon Energy Ltd., Pune).

- Investor:- M/s. Peethambra Granites (P) Ltd. New Delhi:- 2.50 MW (2x1250KW)

**Committee's observations in its meeting dtd 02/12/2014:-**

- NIWE declared 25 m height MEDA mast is at location - Chakla Taluka - Nandurbar District - Nandurbar (Latitude- **N 21° 19' 0.14"** Longitude- **E 74° 18' 59.9"** Elev.- **352 m amsl**) having extrapolated **WPD- 323.0 watt/m<sup>2</sup> @ 50 m AGL.**
- Apart from above, NIWE vetted 65 m height mast of M/s. Suzlon is at location - Chakla Taluka - Nandurbar District - Nandurbar (Latitude- **N 21° 16' 53.0"** Longitude- **E 74° 18' 30.2"** Elev.- **353 m amsl**) having actual measured **WPD-**

**227.78 watt/m<sup>2</sup> @ 50 m AGL** vide their letter no. C-WET/WRA/079/2008-2009 dated 27.09.2010.

- Nearest reference Wind Mast for the above mentioned wind power project is at location - Chakla Taluka - Nandurbar District - Nandurbar (Latitude- **N 21° 19' 0.14"** Longitude- **E 74° 18' 59.9"** Elev.- **352 m amsl**) having extrapolated **WPD- 323.0 watt/m<sup>2</sup> @ 50 m AGL**.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of both above wind masts and overall 100% of WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred nearest reference wind mast.
- **Committee's Recommendations in its meeting dtd 02/12/2014:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee recommended to issue the wind zone - III letter to M/s. Peethambra Granites (P) Ltd. New Delhi, for their 2.50 MW (2x1250KW) capacity wind power project.
- In view of above, MEDA vide its letter no.6648 dtd 29/12/2014 has issued letter of **Zone -III** for their 2.50 MW (2x1250KW) capacity wind power project to M/s. Peethambra Granites (P) Ltd. New Delhi.
- Now, M/s Suzlon Gujrat Windpark Ltd vide its letter no.93 dtd 29/02/2016 submitted a report on site specific wind power density (WPD) Map at 50m agl at Chakla Dist . Nandurbar Site prepared by NIWE, Chennai and issued on dtd 1.02.2016 to WTG Manufacturer M/s Suzlon Energy Ltd. In this report, at point no.6 of page no. 13, conclusion is briefed as below .
- The estimated averaged WPD is found to be 247.82 W/m<sup>2</sup> at P-90 confidence level with all relevant corrections. The site specific WPD estimation is carried out for M/s Suzlon Energy Ltd and the following (Pocket no. 17) WTG locations are found to be falling over the said area -
  - C-11, C-12.
  - Moreover, NIWE in its above report, briefed the conclusion at Point no.7 of Page No.14 as below-  
The WPD calculations are based on 50 m wind data of Chakla site (August 03-July-04) provided by M/s Suzlon Energy Ltd, Pune. As NIWE measurement was carried out at 25 m height (April 1999 to 14<sup>th</sup> June 2000) and extrapolation from 25m to 50m height will give more uncertainly, NIWE has considered actual measurements (August 2003 to July 2004) carried out by M/s Suzlon Energy Ltd. at 50m height for WPD calculation. The study area for calculating the WPD figures have been obtained from the map given by customer. For single turbines, 2kmx2km area has been taken for the WPD analysis.

The estimated averaged WPD is found to be 247.82W/m<sup>2</sup> at P-90 confidence level with all relevant corrections. The site specific WPD estimation is carried out for M/s Suzlon Energy Ltd, Pune.

➤ **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and in view of report on site Specific Wind Power Density (WPD) Map at 50m agl at Chakala Dist. Nandurbar Site prepared by NIWE, Chennai, committee suggested that M/s. Peethambra Granites (P) Ltd. New Delhi, shall submit their say for their 2.50 MW (2x1250KW) capacity 2 WTG's wind power project as per above list.

- As per site visit on dtd. 4/6/2016 Chakala, of Shri. Gite, Project Executive, Nashik MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in	Ref. Mast Elev. MASL in	Forest Comp/Survey/Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betw n. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MASL in m	m.	Gut No.		Pvt. Mast	NIWE/MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec								
1		C-12	Nan/Chakla/Suz/1.25MW/D/10-11/2865	1250	21	19	5.4	74	17	44.5	334	368	17/Comt. 131	Vasadare/Nandurbar	4.11		-34	Within (+/-) 60 m elev. difference
2		C-11	Nan/Chakla/Suz/1.25MW/D/10-11/2864	1250	21	18	52.5	74	17	52.8	364	368	17/Compt 131	Vasadare/Nandurbar	3.65		-4	Within (+/-) 60 m elev. difference

- Mast of M/s. Suzlon is at location - Chakla Taluka - Nandurbar District - Nandurbar (Latitude- **N 21° 17' 4.9"** Longitude- **E 74° 18' 44.5"** Elev.- **368 m amsl**) certified by MEDA Official Mr. L.K. Gite, (PE) Nashik.

➤ **Developer:- Developer:- M/s. Bothe Windfarm Development Pvt. Ltd, Mumbai**

- Site:- Bothe-3, Tal. Maan, Dist. Satara (Vetted by NIWE for M/s Vestas Wind Technology (P) Ltd, Chennai).
- Site:- Sripalvan, Tal. Maan, Dist. Satara (Vetted by NIWE for M/s Vestas Wind Technology (P) Ltd, Chennai).
- Investor:- M/s.Bothe Windfarm Development Pvt. Ltd.Mumbai :- 8.40 MW (4x2100KW). The project is commissioned during the financial year 2015-16.
- As per site visit on dtd. 7/6/2016 Bothe-3, Sripalvan of Shri. S.N.Sawant, Technician, Girye MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Locati on No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MAS L in	Ref. Mast Elev. MASL in	Foret Com p/Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betw n. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MAS L in m	m.	Gut No.		Pvt. Mast	NIWE / MED A Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Mi n	Sec	De g	Mi n	Sec					Bothe-3			
1 (4)		I-13	Satara/Bothe/Suzlon/2.1MW/D/14-15/4262	2.1	17	44	11.8	74	22	45.5	1020	1016	188	Ransing wadi	1.41	NA	4	Within (+/-) 60 m elev. difference
2 (1)	C-410	I-46	Satara/Bothe/Suzlon/2.1MW/D/14-15/4259	2.1	17	44	49.9	74	23	34.6	1023	1016	167	Shirwali/ Maan/ Satara	0.47	NA	7	Within (+/-) 60 m elev. difference
3 (3)		I-53	Satara/Bothe/Suzlon/2.1MW/D/14-15/4261	2.1	17	44	35.3	74	23	51.8	1021	1016	322	Shirwali/ Maan/ Satara	0.78	NA	5	Within (+/-) 60 m elev. difference
4 (2)		I-61	Satara/Bothe/Suzlon/2.1MW/D/14-15/4260	2.1	17	44	42.7	74	23	44.6	1023	1016	230	Shirwali/ Maan/ Satara	0.60	NA	7	Within (+/-) 60 m elev. difference

### Observations :

- There is NIWE Chennai declared wind mast Adjacent to the above mentioned wind power project at. Village . Khokade, Tal. Maan, District . Satara (Latitude- N 17° 48q8.2qLongitude- E 74° 22q34.1qElev.- 1046 m amsl) having **WPD- 216 W/m<sup>2</sup> @ 50 m AGL**
- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Bothe-3, Tal. Maan, District . Satara (Latitude- N 17° 44q37.5qLongitude- E 74° 23q25.3qElev.- 1016 m amsl) having **WPD- 220.08 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for M/s Vestas Wind Technology India (P) Ltd vide their letter no. C-WET/WRA/051/2010-2011 dated 24.03.2011.
- Adjacent Wind Mast for the above mentioned wind power project is at Village . Sripalvan, Tal. Maan, District . Satara (Latitude- N 17° 49q22.4qLongitude- E 74° 26q23.8qElev.- 1019 m amsl) having **WPD- 219.68 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for M/s Vestas Wind Technology India (P) Ltd vide their letter no. C-WET/WRA/096/2008-2009 dated 29.04.2009.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.

➤**Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to M/s. *Bothe Windfarm Development Pvt Ltd, Mumbai*, for their **8.40MW (4x2100KW)**. capacity 4 WTG's wind power project as per above list.

- **Old Report** As per site visit on dtd. 30/7/2015 at Bothe-3, Sripalvan of Shri. H.D. Shinde, Manager (WRA/Wind Zone) the WTG location wise observations are as below **Old Report :-**

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in	Ref. Mast Elev. MASL in	Forest Comp /Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. between Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MASL in m	m.	Gut No.		Pvt. Mast	NIWE / MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8-9)	15
					De g	Min	Sec	De g	Min	Sec					Bothe-3, Sripalwan			
1		I-13	Satara/Bothe/Suzlon/2.1MW/D/14-15/4262	2.1	17	44	11.6	74	22	45.6	1015	1016	188	Katalgewadi/Maan/Satara	1.41	NA	-1	Within (+/-) 60 m elev. difference
2		I-46	Satara/Bothe/Suzlon/2.1MW/D/14-15/4259	2.1	17	44	49.9	74	23	34.3	1025	1016	167	Shirwadi/Maan/Satara	0.47	NA	9	Within (+/-) 60 m elev. difference
3		I-53	Satara/Bothe/Suzlon/2.1MW/D/14-15/4261	2.1	17	44	35.3	74	23	52.0	1015	1016	322	Katalgewadi/Maan/Satara	0.79	NA	-1	Within (+/-) 60 m elev. difference
4		I-61	Satara/Bothe/Suzlon/2.1MW/D/14-15/4260	2.1	17	44	42.5	74	23	44.9	1018	1016	230	Shirwadi/Maan/Satara	0.60	NA	2	Within (+/-) 60 m elev. difference

➤ **Developer:- Developer:- M/s. Bothe Windfarm Development Pvt. Ltd, Mumbai**

- **Site:- Bothe-3, Tal. Maan, Dist. Satara (Vetted by NIWE for M/s Vestas Wind Technology (P) Ltd, Chennai).**
- **Site:- Sripalwan, Tal. Maan, Dist. Satara (Vetted by NIWE for M/s Vestas Wind Technology (P) Ltd, Chennai).**
- **Investor:- M/s.Bothe Windfarm Development Pvt. Ltd.Mumbai :- 46.20 MW (22x2100KW).**  
The project is commissioned during the financial year 2014-15.
- As per site visit on Bothe-3, Sripalvan of Shri. R.A.Karndikar, Technician, Girye MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev. MASL in mtrs.	Forest Comp /Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km		C-WET MEDA Mast	Diff. between Ref. wind mast and WTG Elevation (Mtr)	Remark
				MW							MASL in mtrs	m.	Gut No.		Pvt Mast				
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8-9)	15	16
					De g	Min	Sec	De g	Min	Sec		Sripalwan			Sripalwan	Bothe-III			

1	D-10	SP-05	4290	2.1	17	49	58.8	74	24	41.8	1035	1021	391	Shripalvan/ Maan/Satara	3.20			14	Within (+/-) 60 m elev. difference
2	D-10	SP-06	4291	2.1	17	50	09.7	74	24	41.2	1037	1021	50	Shripalvan/ Maan/Satara	3.39			16	Within (+/-) 60 m elev. difference
3	D-10	SP-07	4292	2.1	17	50	18.4	74	24	37.4	1036	1021	51	Shripalvan/ Maan/Satara	3.630			15	Within (+/-) 60 m elev. difference
4	D-10	SP-08	4293	2.1	17	50	22.8	74	24	27.1	1035	1021	54	Shripalvan/ Maan/Satara	3.950			14	Within (+/-) 60 m elev. difference
5	D-10	SP-10	4294	2.1	17	50	25.2	74	25	12.5	1053	1021	20, 21	Shripalvan/ Maan/Satara	2.96			32	Within (+/-) 60 m elev. difference
6	D-13	SP-13	IC/N oCC/ DCC /R	2.1	17	50	29.9	74	25	38.6	1046	1021	202	Shripalvan/ Maan/Satara	2.63			25	Within (+/-) 60 m elev. difference
7	D-10	SP-40	4297	2.1	17	50	28.9	74	24	43.4	1037	1021	60	Shripalvan/ Maan/Satara	3.60			16	Within (+/-) 60 m elev. difference
8	D-13	SP-12		2.1	17	50	20.1	74	25	45.1	1041	1021	248, 249	Shripalvan/ Maan/Satara	2.280			20	Within (+/-) 60 m elev. difference
9	D-11	SP-27		2.1	17	50	2.4	74	27	5.5	1039	1021	5	Khandyachiwa di/Maan/ Satara	1.960			18	Within (+/-) 60 m elev. difference
10	D-11	SP-32		2.1	17	49	24.5	74	28	09.6	1035	1021	103	Khandyachiwa di/Maan/ Satara	3.20			14	Within (+/-) 60 m elev. difference
11	D-11	SP-31		2.1	17	49	16.7	74	28	20.1	1033	1021	105, 106	Khandyachiwa di/Maan/ Satara	3.50			12	Within (+/-) 60 m elev. difference
12	D-11	SP-30		2.1	17	49	07.9	74	28	18.7	1028	1021	112	Khandyachiwa di/Maan/ Satara	3.46			7	Within (+/-) 60 m elev. difference
13	D-11	SP-29		2.1	17	48	57.1	74	28	20.1	1023	1021	142, 144	Khandyachiwa di/Maan/ Satara	3.54			2	Within (+/-) 60 m elev. difference
14	D-12	SP-24		2.1	17	50	16.2	74	26	22.6	1042	1021	62	Garudachiwadi /Maan/Satara	1.89			21	Within (+/-) 60 m elev. difference
15	D-12	SP-41		2.1	17	50	36.4	74	26	49.8	1034	1021	8/1	Garudachiwadi /Maan/ Satara	2.66			13	Within (+/-) 60 m elev. difference
16	D-12	SP-20		2.1	17	49	35.3	74	26	43.20	1038	1021	42	Ugalychiwadi/ Maan/ Satara	0.899			17	Within (+/-) 60 m elev. difference
17	D-12	SP-19		2.1	17	49	25.1	74	26	43.2	1032	1021	68	Ugalychiwadi/ Maan/ Satara	0.715			11	Within (+/-) 60 m elev. difference
18	D-14	SP-37		2.1	17	49	20.6	74	28	36.9	1035	1021	109	Khandyachiwa di/Maan/ Satara	4.00			14	Within (+/-) 60 m elev. difference
19	D-14	SP-34		2.1	17	49	43.4	74	28	05.0	1040	1021	98/1, 98/2	Khandyachiwa di/Maan/ Satara	3.18			19	Within (+/-) 60 m elev. difference
20	D-14	SP-39		2.1	17	49	43.8	74	28	53.7	1030	1021	108	Khandyachiwa di/Maan/ Satara	4.29			10	Within (+/-) 60 m elev. difference
												<b>Both e-III</b>							
21	D-15	I-19	4279	2.1	17	44	14.8	74	23	04.2	1018	1020	187	Ransingwadi/ Khataw/Satara	0.930			-2	Within (+/-) 60 m elev. difference
22	D-15	I-31	4280	2.1	17	44	33.3	74	23	23.2	1024	1020	301	Katalgewadi/ Khataw/Satara	0.140			4	Within (+/-) 60 m elev. difference

#### Observations:

- There is NIWE Chennai declared wind mast Adjacent to the above mentioned wind power project at. Village . Khokade, Tal. Maan, District . Satara (Latitude- N 17<sup>0</sup> 48q8.2q Longitude- E 74<sup>0</sup> 22q34.1q Elev.- 1046 m amsl) having **WPD- 216 W/m<sup>2</sup> @ 50 m AGL**

- Nearest reference Wind Mast for the above mentioned wind power project is at vetted by NIWE Chennai for *M/s Vestas Wind Technology India (P) Ltd* vide their letter no. C-WET/WRA/051/2010-2011 dated 24.03.2011.
- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Sripalvan, Tal.Maana, District . Satara (Latitude- N 17° 49' 22.4" Longitude- E 74° 26' 23.8" Elev.- 1019 m amsl) having **WPD- 219.68 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for *M/s Vestas Wind Technology India (P) Ltd* vide their letter no. C-WET/WRA/096/2008-2009 dated 29.04.2009.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.
  - It is observed that MEDA has issued IC for above WTGs and have directly commissioned by MSEDCL without CC of MEDA.
  - **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to *M/s. Bothe Windfarm Development Pvt Ltd, Mumbai*, for their **46.20MW (22x2100KW)** capacity 22 WTG's wind power project as per above list.
- **Old Report** - As per site visit on dtd. 30/7/2015 Bothe-3, Sripalvan of Shri. H.D. Shinde, Manager (WRA/Wind Zone) the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MAS L in mtrs.	Ref. Mast Elev. MAS L in mtrs.	Forest Comp/ Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km.		C-WET MEDA Mast	Diff. between Ref. wind mast and WTG Elevation (Mtr)	Remark
				MW							MAS L in mtrs.	m.	Gut No.		Pvt Mast				
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15	16
					De g	Min	Sec	De g	Min	Sec		Sripalwan			Sripalwan	Bothe-III			
1		SP-05		2.1	17	49	58.5	74	24	41.8	1031	1019	391	Shripalvan/Maana/Satara	3.20	NA	NA	12	Within (+/-) 60 m elev. difference
2		SP-06		2.1	17	50	09.5	74	24	41.2	1023	1019	50	Shripalvan/Maana/Satara	3.35	NA	NA	4	Within (+/-) 60 m elev. difference
3		SP-07		2.1	17	50	18.3	74	24	37.3	1030	1019	51	Shripalvan/Maana/Satara	3.58	NA	NA	11	Within (+/-) 60 m elev. difference
4		SP-08		2.1	17	50	22.6	74	24	26.9	1024	1019	54	Shripalvan/Maana/Satara	3.91	NA	NA	5	Within (+/-) 60 m elev. difference
5		SP-10		2.1	17	50	25.0	74	25	12.7	1052	1019	20	Shripalvan/Maana/Satara	2.85	NA	NA	33	Within (+/-) 60 m elev. difference
6		SP-13		2.1	17	50	29.9	74	25	38.4	1045	1019	202	Shripalvan/Maana/Satara	2.47	NA	NA	26	Within (+/-) 60 m elev. difference
7		SP-40		2.1	17	50	29.0	74	24	43.3	1026	1019	60	Shripalvan/Maana/Satara	3.60	NA	NA	7	Within (+/-) 60 m elev. difference

8		SP-12		2.1	17	50	20.1	74	25	45.0	1033	1019	248, 249	Shripalva n/ Maan/ Satara	2.11	NA	NA	14	Within (+/-) 60 m elev. difference
9		SP-27		2.1	17	50	02.1	74	27	05.4	1040	1019	5	Khandya chiwadi/ Maan/ Satara	1.73	NA	NA	21	Within (+/-) 60 m elev. difference
10		SP-32		2.1	17	49	24.4	74	28	09.6	1035	1019	103	Khandya chiwadi/ Maan/ Satara	3.12	NA	NA	16	Within (+/-) 60 m elev. difference
11		SP-31		2.1	17	49	16.6	74	28	20.1	1021	1019	105, 106	Khandya chiwadi/ Maan/ Satara	3.43	NA	NA	2	Within (+/-) 60 m elev. difference
12		SP-30		2.1	17	49	07.8	74	28	18.7	1026	1019	112	Khandya chiwadi/ Maan/ Satara	3.41	NA	NA	7	Within (+/-) 60 m elev. difference
13		SP-29		2.1	17	48	56.8	74	28	20.0	1016	1019	142, 144	Khandya chiwadi/ Maan/ Satara	3.51	NA	NA	-03	Within (+/-) 60 m elev. difference
14		SP-24		2.1	17	50	16.2	74	26	22.5	1048	1019	62	Garudac hiwadi/ Maan/ Satara	1.65	NA	NA	29	Within (+/-) 60 m elev. difference
15		SP-41		2.1	17	50	36.4	74	26	49.7	1027	1019	8/1	Garudac hiwadi/ Maan/ Satara	2.40	NA	NA	8	Within (+/-) 60 m elev. difference
16		SP-20		2.1	17	49	35.2	74	26	43.00	1036	1019	42	Ugalychi wadi/ Maan/ Satara	0.69	NA	NA	17	Within (+/-) 60 m elev. difference
17		SP-19		2.1	17	49	24.9	74	26	43.4	1035	1019	68	Ugalychi wadi/ Maan/ Satara	0.50	NA	NA	16	Within (+/-) 60 m elev. difference
18		SP-37		2.1	17	49	20.5	74	28	36.8	1029	1019	109	Khandya chiwadi/ Maan/ atara	3.92	NA	NA	10	Within (+/-) 60 m elev. difference
19		SP-34		2.1	17	49	43.4	74	28	05.1	1045	1019	98/1, 98/2	Khandya chiwadi/ Maan/ atara	3.05	NA	NA	26	Within (+/-) 60 m elev. difference
20		SP-39		2.1	17	49	43.6	74	28	54.00	1010	1019	108	Khandya chiwadi/ Maan/ atara	4.47	NA	NA	-9	Within (+/-) 60 m elev. difference
21		I-19		2.1	17	44	14.7	73	23	04.1	1018	1016	187	Katalgew adi/Khata v/Satara	11.1	0.94	NA	2	Within (+/-) 60 m elev. difference
22		I-31		2.1	17	44	33.3	74	23	23.2	1021	1016	301	Katalgew adi/Khata v/Satara	10.36	0.14	NA	5	Within (+/-) 60 m elev. difference

### **Obsevatons:**

#### **➤ Developer:- M/s. T.S. Wind Power Developers, Satara**

- *Site:- Bhendwade, Tal. Dist. Satara (Vetted by NIWE Chennai).*
- *Investor:- M/s.Girraj Enterprises :- 2.00 MW (1x2000KW). The project is commissioned during the financial year 2014-15.*
- *As per site visit on dtd. 30/5/2016 Bhendwade of Shri. R.C. Tamboli (Technician), Girye the WTG location wise observations are as below:-*





	(2)			MW							MASL in m.		Gut No.		Pvt. Mast	NIWE/ MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec						Bhendwa de/Kotho li		
1	C-395	BH-T-24	Shrikant Energy Pvt.Ltd. Bhendwade/Inox/ 2.0 MW/D/2013- 14/4176	2.0	16	57	47.3	73	56	22.8	776	782	1733	Kadve/ Shahuw adi/ Kolhapu r	-	3.7	-6	Wit hin (+/- ) 60 m ele v. diff ere nce

#### Observations:-

- Adjacent Wind Mast for the above mentioned wind power project is at location . Bhendwade, Tal . Shahuwadi Dist. Kolhapur (Latitude- **N 17° 1' 97.3"** Longitude- **E 73° 52' 89.5"** Elev.- 812 m amsl) having **WPD- 223 watt/m<sup>2</sup> @ 50 m AGL** declared by NIWE Chennai for MEDA.
- Nearest Wind Mast for the above mentioned wind power project is at location . Kotoli, Tal . Shahuwadi Dist. Kolhapur (Latitude- **N 16° 57' 54.2"** Longitude- **E 73° 58' 28.4"** Elev.- 782 m amsl) having **WPD- 180 watt/m<sup>2</sup> @ 50 m AGL** declared by NIWE Chennai.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.

➤ **Suggetions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to M/s.Srikanth Energy Pvt Ltd, for their **2.00MW (1x2000KW)** capacity wind power project.

➤ **Developer:- M/s.Suzlon Energy Ltd.**

- **Site:- Sindur, Tal. Jath, Dist.Sangli (Vetted by NIWE for M/s Suzlon Energy Ltd, Pune).**
- **Investor:- M/s.Pradeep Metals Ltd, Navi Mumbai:- 2.10 MW (1x2100KW).**The project is commissioned during the financial year 2015-16.
- As per site visit on dtd. 1/6/2016 Sindur of Shri. H.S. Nimbalkar, Project Executive, Divisional Office, MEDA, Kolhapur the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Locati on No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MAS L in	Ref. Mast Elev. MASL in	Fores t Com p/Sur vey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betwn. Ref. wind mast and WTG Elev. (Mtr.)	Rema rk
				MW							MAS L in m	m.	Gut No.		Pvt. Mast	NIWE/ MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8-9)	15
					De g	Min	Sec	De g	Min	Sec		Sindur			Sindur			

1	E-4	JTH-116	Sangali / Sindur / Suzlon / 2.1 MW/D/ 14-15/4323	2100	16	53	34.2	75	16	57.2	686	695	395 & 396	Umrani, Jath, Sangli	9.79	NA	-9	Within (+/-) 60 m elev. difference
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#### Observations:-

- There is no NIWE Chennai declared wind mast within the 10 km radial distance of the above mentioned wind power project.
- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Sindur, Tal. Jath, District - Sangli (Latitude- N 16° 52' 48.0" Longitude- E 75° 11' 29.9" Elev.- 694 m amsl) having **WPD- 183.32 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for M/s. Suzlon Energy Ltd vide their letter no. C-WET/WRA/094/2014-2015 dated 20.02.2015.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.

➤ **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to M/s. Pradeep Metals Ltd, Navi Mumbai, for their **2.10MW (1x2100KW)**. capacity 1 WTG wind power project as per above list.

#### ➤ **Developer:- M/s. Sri Maruti Wind park Developers**

- Site:-** Bhud Phase-2, Tal. Khanapur, Dist. Sangli (Vetted by NIWE for M/s. Regen Powertech Pvt. Ltd. Chennai ).
- Investor:-** M/s. Wind India Ventures Pvt Ltd, Bangalore:- 1.50MW(01x1500 KW). The project is commissioned during the financial year 2014-15.
- As per site visit on Bhud Ph-2 of Shri. M. P. Gandhile, P.E., Aurangabad MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev. MASL in mtrs.	Forest Comp/ Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betwn. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MASL in m.		Gut No.		Pvt. Mast	NIWE/ MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec		Bhud Phase-2			Bhud Phase-2 (M/s. Regen)	NA		
1	G-24	BE-09		1.5	17	23	7.51	74	41	14.32	840	840	488/3	Devkhind/ Khanapur/ Sangli	8.2km		0	Within (+/-) 60 m elev. difference

#### Observations:-

- Adjacent Wind Mast for the above mentioned wind power project is @ 5 Km at location . Bhud, Tal . Khanapur Dist. Sangli (Latitude- N 17° 20' 33.5" Longitude- E 74° 42' 6.8" Elev.- 809 m amsl) having **WPD- 224 watt/m<sup>2</sup> @ 50 m AGL** declared by NIWE Chennai for MEDA.

- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Bhud Phase-2 Tal. District . Sangli (Latitude- N 17<sup>0</sup> 21' 18.3" Longitude- E 74<sup>0</sup> 41' 48.9" Elev.- 840 m amsl) having **WPD- 225.99 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for *M/s Regen Powertech Pvt. Ltd, Chennai* vide their letter no. C-WET/WRA/074/2011-2012 dtd 23.02.2012.
  - As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.
- **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to *M/s. Win India Ventures Pvt. Ltd, Bangalore* for their **1.50MW (1x1500KW)**. capacity 1 WTG wind power project as per above list.

- **Old Report:-**As per site visit on Bhud Ph-2 of Shri. V. R. Pawaskar, Sr. Technician, Girye MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev. MASL in mtrs.	Forest Comp/ Survey / Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betwn. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MASL in m.		Gut No.		Pvt. Mast	NIWE/ MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec		Bhud Phase-2			Bhud Phase-2 (M/s. Regen)	NA		
1	G-24	BE-09		1.5	17	23	7.51	74	41	14.52	809	840	488/3	Devkhin di/ Khanapur/ Sangli	8.2km		-31	Within (+/-) 60 m elev. difference

- **Old Report:-**As per site visit on Bhud Ph-2 of Shri. H.D. Shinde, Manager (WRA/WZ) the WTG location wise observations are as below

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev. MASL in mtrs.	Forest Comp/ Survey / Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betwn. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MASL in m.		Gut No.		Pvt. Mast	NIWE/ MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec		Bhud Phase-2			Bhud Phase-2 (M/s. Regen)	NA		
1		BE-09		1.5	17	23	07.7	74	41	14.6	839	840	488/3	Devkhin di/ Khanapur/ Sangli	0.27	NA	-1	Within (+/-) 60 m elev. difference

➤ **Developer:- Developer:- M/s. Bothe Windfarm Development Pvt. Ltd, Mumbai**

- Site:- Bothe-3, Tal. Maan, Dist. Satara (Vetted by NIWE for M/s Vestas Wind Technology (P) Ltd, Chennai).
- Site:- Sripalwan, Tal. Maan, Dist. Satara (Vetted by NIWE for M/s Vestas Wind Technology (P) Ltd, Chennai).
- Investor :- M/s.Bothe Windfarm Development Pvt. Ltd.,Mumbai :- 44.10MW (21x2100KW). The project is commissioned during the financial year 2014-15.
- As per site visit on dtd. 7/6/2016 Bothe-3, Sripalwan of Shri. S.N Sawant, Technician, Girye MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in mtrs.	Ref. Mast Elev. MASL in mtrs.	Forest Comp / Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km.		C-WET MEDA Mast	Diff. between Ref. wind mast and WTG Elevation (Mtr)	Remark
	(2)			MW							MASL in mtrs	m.	Gut No.		Pvt Mast				
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15	16
					Deg	Min	Sec	Deg	Min	Sec									
1	G-14	I-17		2.1	17	44	34.7	74	24	35.1	990	1020	297	Shirwali	2.06			-30	Within (+/-) 60 m elev. difference
2	G-12	I-38		2.1	17	44	25.5	74	23	28.6	1023	1020	294	Khandychiwadi	0.38			3	Within (+/-) 60 m elev. difference
3	G-12	I-28		2.1	17	44	43.3	74	23	25.4	1026	1020	184/186	Shirwali	0.19			6	Within (+/-) 60 m elev. difference
4	G-12	I-51		2.1	17	44	42.4	74	24	8.0	984	1020	250	Shirwali	1.27			-36	Within (+/-) 60 m elev. difference
5	G-12	I-69		2.1	17	44	6.4	74	22	57.8	1019	1020	280	Katalgewadi	1.25			-1	Within (+/-) 60 m elev. difference
6	G-14	I-78		2.1	17	44	36.1	74	24	24.1	989	1020	296	Shirwali	1.73			-31	Within (+/-) 60 m elev. difference
7	G-13	I-79		2.1	17	44	33.8	74	24	51.0	986	1020	299	Shirwali	2.53			-34	Within (+/-) 60 m elev. difference
8	G-13	I-80		2.1	17	44	41.5	74	25	6.1	968	1020	300	Shirwali	2.97			-52	Within (+/-) 60 m elev. difference

9	G-13	I-83		2.1	17	45	4.1	74	24	26.1	962	1020	287	Shirwali	1.97			-58	Within (+/-) 60 m elev. difference
10	G-15	SP-09		2.1	17	50	17.9	74	25	20.4	1052	1021	10	Shripalwan	2.640			31	Within (+/-) 60 m elev. difference
11	G-17	SP-17		2.1	17	50	51.7	74	25	51.0	1050	1021	217	Garudachiwadi	3.120			29	Within (+/-) 60 m elev. difference
12	G-18	SP-21		2.1	17	49	44.4	74	26	39.6	1035	1021	31	Ugalachiwadi	1.26			14	Within (+/-) 60 m elev. difference
13		SP-22		2.1	17	49	56.7	74	26	52.1	1043	1021	191	Khandychiwadi	1.570			22	Within (+/-) 60 m elev. difference
14	G-18	SP-25		2.1	17	50	29.7	74	26	23.6	1044	1021	61	Garudachiwadi	2.30			23	Within (+/-) 60 m elev. difference
15	G-18	SP-26		2.1	17	49	51	74	27	20.8	1039	1021	25	Khandychiwadi	2.07			18	Within (+/-) 60 m elev. difference
16	G-18	SP-28		2.1	17	49	19.5	74	26	43.5	1035	1021	17	Garudachiwadi	2.1			14	Within (+/-) 60 m elev. difference
17	G-16	SP-33		2.1	17	49	36.8	74	28	11.5	1041	1021	104/2	Khandychiwadi	3.32			20	Within (+/-) 60 m elev. difference
18	G-19	SP-35		2.1	17	49	42.5	74	27	50.7	1037	1021	73	Khandychiwadi	2.76			16	Within (+/-) 60 m elev. difference
19	G-19	SP-36		2.1	17	49	56.3	74	27	50.4	1036	1021	67	Khandychiwadi	2.92			15	Within (+/-) 60 m elev. difference
20	G-19	SP-38		2.1	17	49	26.8	74	28	29.0	1036	1021	107	Khandychiwadi	3.78			15	Within (+/-) 60 m elev. difference
21	D-14	I-84		2.1	17	49	33.7	74	28	45.5	1027	1021	108	Khandychiwadi	4.29			6	Within (+/-) 60 m elev. difference

#### Observations:

- There is NIWE Chennai declared wind mast Adjacent to the above mentioned wind power project at. Village . Khokade, Tal. Maan, District . Satara (Latitude- N 17° 48' 8.2" Longitude- E 74° 22' 34.1" Elev.- 1046 m amsl) having **WPD- 216 W/m<sup>2</sup> @ 50 m AGL**
- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Bothe-3, Tal. Maan, District . Satara (Latitude- N 17° 44' 37.5" Longitude- E 74° 23' 25.3" Elev.- 1016 m amsl) having **WPD- 220.08 W/m<sup>2</sup> @ 50 m AGL**

vetted by NIWE Chennai for M/s. Vestas Wind Technology India (P) Ltd vide their letter no. C-WET/WRA/051/2010-2011 dated 24.03.2011.

- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Sripalvan, Tal.Maan, District . Satara (Latitude- N 17° 49' 22.4" Longitude- E 74° 26' 23.8" Elev.- 1019 m amsl) having **WPD- 219.68 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for M/s Vestas Wind Technology India (P) Ltd vide their letter no. C-WET/WRA/096/2008-2009 dated 29.04.2009.
  - As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.
  - Above WTGs have directly commissioned by MSEDCL without IC and CC of MEDA
- **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind** zone - I letter to M/s. *Bothe Windfarm Development Pvt Ltd, Mumbai*, for their **44.10MW (21x2100KW)**. capacity 21 WTG's wind power project as per above list.

➤ **Developer:- M/s. Sri Maruti Wind Park Developers**

- **Site:-** Vaspeth, Tal. Jath & dist. Sangli (Vetted by NIWE Chennai for MEDA).
- **Investor:-** M/s. NuPower Renewables Pvt. Ltd:- 26.65 MW (13x2050KW). The project is commissioned during the financial year 0 .
- As per site visit on dtd. 1/6/2016 Vaspeth of Shri V.R.Pawaskar, Sr.Technician, Girye, MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MAS L in mtrs.	Ref. Mast Elev. MAS L in mtrs.	Forest Com p/ Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betw n. Ref. wind mast and WTG Elev. (Mtr.)	Re mark
				MW							MAS L in m.		Gut No.		Pvt . Mast	NIWE/ MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					De g	Min	Sec	De g	Min	Sec						Vaspeth		
1	C-436	VH-35	4348	2.05	17	07	10.0	75	22	08.0	644	680	592	Vaspeth	NA	2.2	-36	Withi n (+/- ) 60 m elev. differ ence
2	C-434	VH-32	4353	2.05	17	06	54.0	75	21	56.0 7	663	680	592	Vaspeth	NA	1.6	-17	Withi n (+/- ) 60 m elev. differ ence

3	E-14	VH-21	4354	2.05	17	05	59.0	75	21	46.0	666	680	528	Vaspeth	NA	0.7	-14	Within (+/-) 60 m elev. difference
4	E-14	VH33	4355	2.05	17	06	47.2	75	22	33.0	660	680	619/1	Vaspeth	NA	2.3	-20	Within (+/-) 60 m elev. difference
5	E-14	VH36	4349	2.05	17	07	23.6	75	22	30.5	642	680	590	Vaspeth	NA	3.0	-38	Within (+/-) 60 m elev. difference
6	E-14	VH37	4350	2.05	17	07	27.6	75	22	56.6	658	680	590	Vaspeth	NA	3.6	-22	Within (+/-) 60 m elev. difference
7	E-14	VH40	4352	2.05	17	07	58.2	75	22	47.4	645	680	590	Vaspeth	NA	4.1	-35	Within (+/-) 60 m elev. difference
8	E-14	VH39	4351	2.05	17	07	44.0	75	22	44.5	664	680	590	Vaspeth	NA	3.7	-16	Within (+/-) 60 m elev. difference
9	E-14	VH34	4399	2.05	17	07	06.3	75	22	30.3	656	680	590	Vaspeth	NA	2.6	-24	Within (+/-) 60 m elev. difference
10	C-417	VH38	4397	2.05	17	07	44.0	75	23	08.8	630	680	590	Vaspeth	NA	4.02	-50	Within (+/-) 60 m elev. difference
11	C-433	VH20	4398	2.05	17	05	41.3	75	21	49.8	672	680	516	Vaspeth	NA	1.1	-08	Within (+/-) 60 m elev. difference
12	C-435	VH19	4401	2.05	17	05	24.9	75	21	54.6	663	680	515	Vaspeth	NA	1.6	-17	Within (+/-) 60 m elev. difference
13	E-14	VH30	4396	2.05	17	06	39.4	75	21	57.1	675	680	592	Vaspeth	NA	1.3	-5	Within (+/-) 60 m elev. difference

#### Obseavations:

- Nearest reference Wind Mast for the above mentioned wind power project is at location - *Vaspeth, Tal. Jath & dist. Sangli* (Latitude- **N 17° 06' 10.3"** Longitude- **E 75° 21' 24.4"** Elev.- **680 m amsl**) having **WPD- 220.00 watt/m² @ 50 m AGL** declared by NIWE Chennai.



- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.

➤ **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to *M/s. NuPower Renewables Pvt. Ltd.* for their **26.65 MW (13x2050KW)** capacity 13 WTG's wind power project as per above list.

➤ **Developer:- M/s. Sri Maruti Wind Park Developers**

- Site:-** Vaspeth, Tal. Jath & dist. Sangli (Vetted by NIWE Chennai for MEDA).
- Investor:-** *M/s. NuPower Renewables Pvt. Ltd.*-2.05 MW (1x2050KW). The project is commissioned during the financial year 2014-15
- As per site visit on dtd. 1/6/2016 Vaspeth of Shri V.R.Pawaskar, Sr.Technician, Girye, MEDA the WTG location wise observations are as below:-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MAS L in mtrs.	Ref. Mast Elev. MAS L in mtrs.	Forest Comp/ Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betw n. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MAS L in m.		Gut No.		Pvt. Mast	NIWE/ MEDA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8-9)	15
					De g	Min	Sec	De g	Min	Sec						Vaspeth		
1	G-23	VAS211		2.05	17	01	50.5	75	21	12.6	648	680	211/1 & 211/2	Shedyal		8.0	-32	Within (+/-) 60 m elev. difference

**Observations:-**

- Nearest reference Wind Mast for the above mentioned wind power project is at location - *Vaspeth, Tal. Jath & dist. Sangli* (Latitude- **N 17° 06' 10.3"** Longitude- **E 75° 21' 24.4"** Elev.- **680 m amsl**) having **WPD- 220.00 watt/m<sup>2</sup> @ 50 m AGL** declared by NIWE Chennai.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.
- Above WTGs have directly commissioned by MSEDCL without IC and CC of MEDA.

➤ **Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone-I** letter to *M/s. NuPower Renewables Pvt. Ltd.* for their **2.05 MW (1x2050KW)** capacity 1 WTG wind power project as per above list.

• **Developer:- M/s. Acorn Properties Pvt Ltd.**

- Site:- Girijashankarwadi, Tal. Khatav, Dist. Satara (Vetted by NIWE Chennai for M/s Kenersys India Pvt. Ltd, Pune).
- Investor:- M/s.Giriraj Enterprises:-7.20MW(3x2400KW). The project is commissioned during the financial year 2014-15.
- As per site visit on dtd. 2/6/2016 Girijashankarwadi of Shri. R.A. Karndikar, Technician, Girye MEDA the WTG location wise observations are as below :-

Sr. No.	Final file no.	WTG Location No.	MEDA WTG No.	WTG Cap. MW	WTG Latitude (N)			WTG Longitude (E)			WTG Elev. MASL in	Ref. Mast Elev. v. MASL in	Forest Comp/ Survey/ Gut No.	Village Taluka District	Distance from Ref. wind mast in km		Diff. betw n. Ref. wind mast and WTG Elev. (Mtr.)	Remark
				MW							MASL in m	m.	Gut No.		Pvt. Mast	NI WE / ME DA Mast		
1	2	3	4	5	6			7			8	9	10	11	12	13	14= (8- 9)	15
					Deg	Min	Sec	Deg	Min	Sec					Girija Shankar wadi			
1	G-10	GSW-24	Satara/Girijashan di/kenersys/2.4M /2014-15/4273	2.4	17	27	26.5	74	14	38.6	930	892	1781	Rajachekurle/ Khatav/Satara	2.11		38	Within 0 m elev. prence
2	G-10	GSW-27	Satara/Girijashan di/kenersys/2.4M /2014-15/4276	2.4	17	26	52.6	74	14	53.8	894	892	1754	Rajachekurle/ Khatav/ Satara /	0.98		2	Within 0 m elev. prence
3	G-10	GSW-28	Satara/Girijashan di/kenersys/2.4M /2014-15/4277	2.4	17	26	44.3	74	14	57.5	892	892	1754	Rajachekurle/ Khatav/ Satara	0.70		0	Within 0 m elev. prence

#### Observations:-

- There is no NIWE Chennai declared wind mast within the 10 km radial distance of the above mentioned wind power project.
- Nearest reference Wind Mast for the above mentioned wind power project is at Village . Girijashankarwadi, Tal. Khatav, District - Satara (Latitude- **N 17° 26' 22.0"** Longitude- **E 74° 15' 2.4"** Elev.- **892 m amsl**) having **WPD- 237.27 W/m<sup>2</sup> @ 50 m AGL** vetted by NIWE Chennai for M/s Kenersys India Pvt Ltd, Pune their Report on Verification of Procedure of Wind Monitoring at Girijashankarwadi, Satara.
- As per wind classification procedure, all WTGs are within effective area (10 km radial distance) of referred wind mast and overall 100% WTG location co-ordinates of wind power project are **within (+/-) 60 m** elevation difference of referred wind mast.

➤**Suggestions:-** As per the procedure for classification of wind power projects into wind zone class, committee discussed and evaluated the said proposal with respect to above points and committee suggested to issue the **wind zone - I** letter to M/s *Giriraj Enterprises* for their **7.20MW (3x2400KW)**. capacity 3 WTG's wind power project as per above list.