Procedure for classification of wind power projects into wind zone class

a. The value of annual mean Wind Power Density (WPD) of the windy sites declared by Centre for Wind Energy Technology (C-WET) under Ministry of New and Renewable Energy (MNRE) or Maharashtra Energy Development Agency (MEDA) programme; or the value of the annual mean WPD of the private windy site data vetted by C-WET, shall form the basis for the classification of wind power projects into wind zone class.

b. The effective area for each windy site declared by C-WET under MNRE or MEDA programme, and for the private windy site data vetted by C-WET, shall be 10 km radial distance from the location of the wind mast, which will be the reference point. The annual mean WPD at the wind mast shall be considered to be the annual mean WPD for the effective area of that windy site. This annual mean WPD will be made applicable for the wind power projects falling within such effective area.

c. If a wind power project falls within the effective areas of two different wind masts having different values of annual mean WPD, then the annual mean WPD of the nearest wind mast shall be considered for that project. MEDA may advise the developer/investor, if found necessary in such a case, to approach C-WET to obtain project specific annual WPD report from C-WET.

d. i) Within the effective area, if 50% or more than 50% of WTG location co-ordinates of a wind power project are falling above or below 60m elevation difference with reference to the mean sea level of the wind mast, then either MEDA can advise the developer/investor to approach C-WET to obtain project specific annual mean WPD report from C-WET; or the developer/investor can request MEDA for permission to approach C-WET to obtain project specific annual mean WPD report from C-WET. MEDA may

allow developer/investor to approach C-WET only in those cases which fall under this criterion.

ii) The classification of such wind power projects into wind zone class will be done on the basis of the project specific annual mean WPD issued by C-WET, a copy of which will be marked by C-WET to MEDA.

iii) C-WET will lay down appropriate methodology for the issuance of the project specific annual mean WPD.

e. The developer/investor is required to optimize all technical parameters for maximum generation from the wind power project classified as per this procedure. The feasibility of the project will be the responsibility of the developer / investor. C-WET and / or MEDA shall not be responsible in any way for the feasibility of the project, and/ or for the non achievement of PLF by any or all WTGs in the project area. C-WET and / or MEDA will not entertain any complaint in this regard.

f. The developer/investor who intends to sign Energy Purchase Agreement with the distribution licencee should submit application in the prescribed format to MEDA for wind zone classification. After due processing and enquiry, MEDA will issue a letter in respect of classification of the wind power project under consideration, into appropriate wind zone class. The letter will be issued to the developer/investor, with a copy marked to the concerned distribution licensee. Meanwhile, the developer/investor shall also submit an undertaking to MEDA, prescribed in this regard for obtaining clearances.

g. This procedure may be reviewed by MEDA, keeping in view the difficulties in implementation. MEDA reserves the right to make appropriate changes, if and when required.

Undertaking

(For projects within 60 m elevation difference)

I / We / We, M/s. ..... (the Company) hereby declare/declares that I / We have / the Company has submitted an application in respect of its installed / to be installed wind power project for classification into wind zone class. The details of the wind power project are as follows:

Sr. No.	WTG Location No.	Capacity (MW)	Survey No.	Village	Taluka	District	Latitude (N) ---^{0}------"	Longitude (E) ----^{0}--------"	MSL in mtrs.	Distance from nearest wind mast in mtrs.

The wind power project mentioned above is / will be located within the effective area (10 km radial distance) of the wind mast located at Vill:----------Tal:----------Dist:----------. This is the nearest known wind mast declared by MNRE / MEDA through C-WET/ data vetted by C-WET to our above wind power project as on date. The details of the wind mast are as follows;

a. Village :----------
b. Taluka :----------
c. District :----------
d. Latitude (N) : ----------^{0}----------'----------"
e. Longitude (E) : ----------^{0}----------'----------"
f. Mean Sea Level :----------masl
g. Annual Mean WPD :---------- w/m^2

It is certified that 50% or more than 50 % of WTG locations of the installed / to be installed wind power project are having / will have mean sea level elevation difference of **less** than 60 m with reference to the mean sea level of the wind mast location mentioned above.

It is certified that the information given above is true and correct. If it is found that the information is incorrect or false, then I am / We are / the Company is liable for legal action. I / We / the Company hereby agree / agrees and undertake / undertakes to abide by the procedure / directions/ letters issued by MEDA / MERC from time to time in respect of wind zone classification.

(Signature)

Name of Authorized Signatory: Designation:

Place: Date:

Seal of the Company:

Undertaking

(For projects outside 60 m elevation difference)

I / We / We, M/s ..... (the Company) hereby declare/declares that I / We have / the Company has submitted an application in respect of its installed / to be installed wind power project for classification into wind zone class. The details of the wind power project are as follows:

Sr. No.	WTG Location No.	Capacity (M)W	Survey No.	Village	Taluka	District	Latitude (N) ---^{0}--'--"	Longitude (E) ----^{0}---'---"	MSL in mtrs.	Distance from nearest wind mast in mtrs.

The wind power project mentioned above is / will be located within the effective area (10 km radial distance) of the wind mast located at Vill:----------Tal:----------Dist:----------. This is the nearest known wind mast declared by MNRE / MEDA through C-WET/ data vetted by C-WET to our above wind power project as on date. The details of the wind mast are as follows;

a. Village :----------
b. Taluka :----------
c. District :----------
d. Latitude (N) : ----------^{0}----------'----------"
e. Longitude (E) : ----------^{0}----------'----------"
f. Mean Sea Level :----------masl
g. Annual Mean WPD :---------- w/m^2

It is certified that 50% or more than 50 % of WTG locations of the installed / to be installed wind power project are having / will have mean sea level elevation difference of **more** than 60 m with reference to the mean sea level of wind mast location mentioned above. Therefore, we are / will be submitting project specific annual mean WPD report of C-WET.

It is certified that the information given above is true and correct. If it is found that the information is incorrect or false, then I am / We are / the Company is liable for legal action. I / We / the Company hereby agree / agrees and undertake / undertakes to abide by the procedure / directions/ letters issued by MEDA / MERC from time to time in respect of wind zone classification.

(Signature)

Name of Authorized Signatory: Designation:

Place: Date:

Seal of the Company:

Application for classification of wind power project into wind zone class

(For projects within 60 m elevation difference)

Sr.No	Description		Details
1	**Name of The Developer / Investor**	:	
	Address	:	
	Taluka	:	
	District	:	
	State	:	
	Country	:	
	Phone No.	:	
	Fax No.	:	
	Email-id	:	
	Contact Person		
	Name	:	
	Designation	:	
	Phone No.	:	
	Mobile No.	:	
	Fax No.	:	
	Email-id	:	
2	**Wind Power Project Site**		
	Project Site name	:	
	Taluka	:	
	District	:	
		:	
3	**Name of the villages**		
	Taluka	:	
	District	:	
4	**Total Capacity of wind power project**	:	
a	No. of WTG	:	----------Nos
b	Capacity of WTG (kW)	:	----------(kW)
c	Total Capacity in (MW)	:	---------(kW) X-------Nos=---------- MW
d	Details of WTG's as per Undertaking -1	:	Enclosed / Not Enclosed
		:	
5	**Technical Details**		

	WTG		
a	WTG MAKE	:	
b	WTG TYPE	:	
c	Approved By	:	
d	Approval Type	:	
e	Manufacturing Date	:	
	ROTOR		
a	No. of Blades	:	----------Nos.
b	Length of Blade	:	
c	Rotor Diameter	:	----------mts
d	RPM Ratio	:	----------rpm
	TOWER		
a	Tower Type	:	----------Lattice/Tubular
b	Height of Tower	:	----------mts
c	Hub Height	:	----------mts
5	**Nearest Wind Mast Location** (Approved by MNRE/MEDA Through C-WET)	:	
a	Village	:	
b	Taluka	:	
c	District	:	
d	Latitude (N)	:	----------^{0}--------‘----------“.
e	Longitude (E)	:	----------^{o}-------‘----------“.
f	Mean Sea Level	:	----------masl
g	Annual Mean wind power density (WPD)	:	---------- w/m^2
6	**Distance of wind power Project From** (Approved by MNRE/MEDA Through C-WET) **(5) above**	:	----------mts----------kms
7	**If distance of wind power project is more than 10 km from** (5) **then**		
a	Whether WRA is carried out by Developer	:	Yes / No
b	Date of installation of Mast	:	DD/MM/YY
c	Village	:	
d	Taluka	:	
e	District	:	
f	Latitude (N)	:	------- $^{\circ}$ --------- ----------“.
g	Longitude (E)	:	------- $^{\circ}$ ---------‘----------“.
h	Mean Sea Level	:	----------masl
i	Annual Mean WPD	:	---------- w/m^2

j	Period of Data Collection		From----------to----------
k	Whether approved by C-WET	:	Yes / No
l	C-WET approval Ref.No. (Enclose Attested Copy)	:	
m	C-WET approval letter Received to MEDA	:	Yes / No
n	**Distance of wind power Project From Wind Mast Location** (Approved by C-WET)	:	----------mts----------kms
8	**Wind Power Project Land details**		
a	Private land	:	----------Hect
b	Govt. Land		
c	Forest land	:	----------Hect
d	Tribal land	:	----------Hect
e	Total Area acquired	:	----------Hect
9	**Micrositing Plan of Wind Power Project Certified by Developer / Investor (to the Scale)**	:	Ref. No. Enclosed/not enclosed
10	SOI original toposheet map with demarcation of WTG's in Wind power project and reference wind mast	:	Enclosed/not enclosed
		:	
11	**Wind Power Project Work Status**	:	
a	Tower Foundation Completed	:	Yes / No
b	Erection of WTG Completed	:	Yes / No
c	Power Evacuation work to connect MSETCL/ DCL Grid- Completed	:	Yes / No
12	**Commissioning Details**		
a	Infrastructure Clearance issued by MEDA {Attested Copy Enclosed}	:	Ref No.----------
b	Commissioning Clearance issued by MEDA {Attested Copy Enclosed}	:	Ref No.----------
c	Date of Commissioning	:	
d	Commissioning letter issued by MSEDCL {Attested Copy Enclosed}	:	Ref No.----------
e	If not Commissioned then Proposed date of commissioning	:	
13	Details of MSL & Distance from Wind Mast Location of WTG'S in Wind Power Project as per Undertaking-1; Reference No. (Enclose Attested Copy)	: :	Enclosed / Not Enclosed
		:	
14	**Elevation Difference of WTG Locations in respect of MSL of Reference Wind Mast**		

a	Total No of WTG	:	----------Nos
b	No. of WTG locations within 60 mt elevation difference	:	---------Nos----------%
c	No. of WTG locations more than 60 mt elevation difference ***(at lower level altitude)***	:	---------Nos----------%
d	No. of WTG locations more than 60 mt elevation difference ***(at higher level altitude)***	:	---------Nos----------%
15	Applicable Wind Zone as per MERC Order Dated:- July 14, 2010	:	ZONE-I/ ZONE-II/ ZONE-III/ ZONE-IV

I / We / We, M/s----------hereby request MEDA to consider my / our application in the light of the details furnished above. A letter in respect of classification of my / our wind power project in to appropriate wind zone class may please be issued.

<u>Undertaking</u>

The wind power project mentioned above is / will be located within the effective area (10 km radial distance) of the wind mast located at Vill:----------Tal:----------Dist:----------. This is the nearest known wind mast declared by MNRE / MEDA through C-WET/ data vetted by C-WET to our above wind power project as on date. The details of the wind mast are as follows;

a. Village :----------
b. Taluka :----------
c. District :----------
d. Latitude (N) : ----------^{0}----------'----------"
e. Longitude (E) : ----------^{0}----------'----------"
f. Mean Sea Level :----------masl
g. Annual Mean WPD :---------- w/m2

It is certified that 50% or more than 50 % of WTG locations of the installed / to be installed wind power project are having / will have mean sea level elevation difference of less than 60 m with reference to the mean sea level of the wind mast location mentioned above.

It is certified that the information given above is true and correct. If it is found that the information is incorrect or false, then I am / We are / the Company is liable for legal action. I / We / the Company hereby agree / agrees and undertake / undertakes to abide by the procedure / directions issued by MEDA / MERC from time to time in respect of wind zone classification.

(Signature)

Name of Authorized Signatory: Designation:

Place: Date:

Seal of the Company:

Application for classification of wind power project into wind zone class

(For projects outside 60 m elevation difference)

Sr.No	Description		Details
1	**Name of The Developer / Investor**	:	
	Address	:	
	Taluka	:	
	District	:	
	State	:	
	Country	:	
	Phone No.	:	
	Fax No.	:	
	Email-id	:	
	Contact Person		
	Name	:	
	Designation	:	
	Phone No.	:	
	Mobile No.	:	
	Fax No.	:	
	Email-id	:	
2	**Wind Power Project Site**		
	Project Site name	:	
	Taluka	:	
	District	:	
3	**Name of the villages**		
	Taluka	:	
	District	:	
4	**Total Capacity of wind power project**	:	
a	No. of WTG	:	----------Nos
b	Capacity of WTG (kW)	:	----------(kW)
c	Total Capacity in (MW)	:	---------(kW) X-------Nos=---------MW
d	Details of WTG's as per Undertaking -1	:	Enclosed / Not Enclosed
5	**Technical Details**		
	WTG		
a	WTG MAKE	:	

b	WTG TYPE	:	
c	Approved By	:	
d	Approval Type	:	
e	Manufacturing Date	:	
	ROTOR		
a	No. of Blades	:	----------Nos.
b	Length of Blade	:	
c	Rotor Diameter	:	----------mts
d	RPM Ratio	:	----------rpm
	TOWER		
a	Tower Type	:	----------Lattice/Tubular
b	Height of Tower	:	----------mts
c	Hub Height	:	----------mts
5	**Nearest Wind Mast Location** (Approved by MNRE/MEDA Through C-WET)	:	
a	Village	:	
b	Taluka	:	
c	District	:	
d	Latitude (N)	:	----------^{0}--------‘----------“.
e	Longitude (E)	:	----------^{o}-------‘----------“.
f	Mean Sea Level	:	----------masl
g	Annual Mean wind power density (WPD)	:	---------- w/m^2
6	**Distance of wind power Project From** (Approved by MNRE/MEDA Through C-WET) **(5) above**	:	----------mts----------kms
7	**If distance of wind power project is more than 10 km from** (5) **then**		
a	Whether WRA is carried out by Developer	:	Yes / No
b	Date of installation of Mast	:	DD/MM/YY
c	Village	:	
d	Taluka	:	
e	District	:	
f	Latitude (N)	:	------- ° --------- ----------“.
g	Longitude (E)	:	------- ° ---------‘----------“.
h	Mean Sea Level	:	----------masl
i	Annual Mean WPD	:	---------- w/m^2
j	Period of Data Collection		From----------to----------

k	Whether approved by C-WET	:	Yes / No
l	C-WET approval Ref.No. (Enclose Attested Copy)	:	
m	C-WET approval letter Received to MEDA	:	Yes / No
n	**Distance of wind power Project From Wind Mast Location** (Approved by C-WET)	:	----------mts----------kms
8	**Wind Power Project Land details**		
a	Private land	:	----------Hect
b	Govt. Land		
c	Forest land	:	----------Hect
d	Tribal land	:	----------Hect
e	Total Area acquired	:	----------Hect
9	**Micrositing Plan of Wind Power Project Certified by Developer / Investor (to the Scale)**	:	Ref. No. Enclosed/not enclosed
10	SOI original toposheet map with demarcation of WTG's in Wind power project and reference wind mast	:	Enclosed/not enclosed
11	**Wind Power Project Work Status**	:	
a	Tower Foundation Completed	:	Yes / No
b	Erection of WTG Completed	:	Yes / No
c	Power Evacuation work Completed	:	Yes / No
d	Power Evacuation work to connect MSETCL/ DCL Grid- Completed	:	Yes / No
12	**Commissioning Details**		
a	Infrastructure Clearance issued by MEDA {Attested Copy Enclosed}	:	Ref No.----------
b	Commissioning Clearance issued by MEDA {Attested Copy Enclosed}	:	Ref No.----------
c	Date of Commissioning	:	
d	Commissioning letter issued by MSEDCL {Attested Copy Enclosed}	:	Ref No.----------
e	If not Commissioned then Proposed date of commissioning	:	
13	Details of MSL & Distance from Wind Mast Location of WTG'S in Wind Power Project as per Undertaking-2; Reference No. (Enclose Attested Copy)	: :	Enclosed / Not Enclosed
14	**Elevation Difference of WTG Locations in respect of MSL of Reference Wind Mast**		

a	Total No of WTG	:	----------Nos
b	No. of WTG locations within 60 mt elevation difference	:	---------Nos----------%
c	No. of WTG locations more than 60 mt elevation difference ***(at lower level altitude)***	:	---------Nos----------%
d	No. of WTG locations more than 60 mt elevation difference ***(at higher level altitude)***	:	---------Nos----------%
15	Applicable Wind Zone as per MERC Order Dated:-July 14, 2010	:	ZONE-**I**/ ZONE-**II**/ ZONE-**III**/ ZONE-**IV**

I / We / We, M/s----------hereby request MEDA to consider my / our application in the light of the details furnished above. A letter in respect of classification of my / our wind power project in to appropriate wind zone class may please be issued. I/We may be permitted to approach C-WET to obtain project specific annual mean WPD report from C-WET.

Undertaking

The wind power project mentioned above is / will be located within the effective area (10 km radial distance) of the wind mast located at Vill:----------Tal:----------Dist:----------. This is the nearest known wind mast declared by MNRE / MEDA through C-WET/ data vetted by C-WET to our above wind power project as on date. The details of the wind mast are as follows;

a. Village :----------
b. Taluka :----------
c. District :----------
d. Latitude (N) : ----------^{0}----------'----------"
e. Longitude (E) : ----------^{0}----------'----------"
f. Mean Sea Level :----------masl
g. Annual Mean WPD :---------- w/m2

It is certified that 50% or more than 50 % of WTG locations of the installed / to be installed wind power project are having / will have mean sea level elevation difference of **more** than 60 m with reference to the mean sea level of wind mast location mentioned above. Therefore, we are / will be submitting project specific annual mean WPD report of C-WET.

It is certified that the information given above is true and correct. If it is found that the information is incorrect or false, then I am / We are / the Company is liable for legal action. I / We / the Company hereby agree / agrees and undertake / undertakes to abide by the procedure / directions issued by MEDA / MERC from time to time in respect of wind zone classification.

(Signature)

Name of Authorized Signatory: Designation:

Place: Date:

Seal of the Company: