

## **Ministry of New and Renewable Energy**

### **Wind Energy Division**

Ministry intends to revise guidelines for installation of wind turbine models in India. The underlying objective of this exercise is to reinvigorate wind power development in the country by creating a facilitative environment that promote healthy business, ensures safety standards and spur technological growth. [Click here to see the draft guideline.](#)

In order to make these guidelines robust enough to capture the best possible, all the stakeholders are requested to provide their comments/views/suggestions on the draft guidelines by 29 September 2011 at [upadhyay@nic.in](mailto:upadhyay@nic.in)

**DRAFT**  
**F. No.66/53/2006-WE**  
**Ministry of New and Renewable Energy**  
**(Wind Power Division)**

#### **Sub: Revised Guidelines for installation of wind turbine models in India**

The existing norm for installation of wind turbine models in the country is possession of a valid type certificate from internationally recognized certifying agency or C-WET. The other major condition is to have adequate manufacturing base in India. C-WET provides Secretariat to the Revised List of Models and Manufacturers (RLMM) committee for evaluating the documents related to Type Certificate and for ensuring adequacy of manufacturing facility before inclusion of the model in the RLMM list. The underlying objective of RLMM was to ensure installation of quality turbines that are certified from the safety as well as performance angle.

2.0 The existing institutional mechanism was discussed by the sub-Group on Wind energy for the 12th Plan. In view of high level of technological maturity and huge untapped wind potential, the Sub-Group felt that there is a need to create market enabling environment to promote large number of manufacturers in the country.

Accordingly, it was suggested that Ministry should introduce simplified guidelines on quality control for wind turbines entailing safety and performance. It also made specific recommendations on the same and hosted on the website for comments. The sub-Group recommendations were later deliberated upon with the relevant stakeholders and now the Ministry has decided to introduce modified guidelines for installation of quality wind turbines in the country.

3.0 The modified guidelines envisage that any manufacturer who is willing to install a wind turbine model in the country must comply with the following:

- i. The wind turbine model(s) to be installed must possess a valid type certificate from internationally accredited certification agency and fully comply with IEGC 2010. The recognized certification scheme(s) are given at Appendix. This practice is followed in most part of world.
- ii. The manufacturer will certify to this effect i.e. the wind machine/model proposed to be installed possess a valid type certificate from an internationally accredited certification agency and fully comply with IEGC 2010. The certification will be in the form of a duly notarized affidavit which will be submitted to the concerned utility.
- iii. The developers should satisfy themselves that the wind mill model(s) have valid type certificate before placing orders on the manufacturer(s).
- iv. The manufacturer shall submit a copy of the documents related to valid type certificate as per point (i) above to the concerned utility with a copy to C-WET.
- v. Manufacturers of Wind Turbine Generator (WTG) will be liable to be penalized under provisions of law in the country for installation of a non-type certified WTG. A detail legal framework on this shall be issued by the Ministry. A non-type certified machine by an internationally accredited agency is considered as not safe to be installed.
- vi. All the machines installed should possess online remote monitoring system so that C-WET also has access to get the information related to power generation, down time etc. of each of the machines. The manufacturers should ensure that online connectivity of their machines are established with C-WET's server specifically dedicated for this purpose.
- vii. Each machine shall have unique identification number to be provided by C-WET before installation. C-WET will collect generation data for each machine installed in the country after the date of issuance of these guidelines.
- viii. A maximum of 15 MW capacities for a new and type certified wind turbine model will be permitted to be installed in the country without establishing manufacturing facility to allow the prospective manufacturers to test its performance in the Indian conditions. For any further installation the manufacturer shall have to establish adequate manufacturing facility in the country as required under the guidelines already in existence.
- ix. Any new WTG model found in excess of 15 MW without creating adequate manufacturing base in India, will not only result the uprooting of the wind mills (excess of 15 MW) at the owner's cost but also invite heavy penalty under the existing law/guidelines.
- x. Further, the supplier of the WTG will not sell these 15 MW wind mills to any developer till he has set up the manufacturing base. The committee mentioned at clause (xv) will inspect and certify that adequate manufacturing base has been set up.

xi. C-WET will monitor the performance of a new type certified model (15 MW) online through an appropriate mechanism. In case of not achieving the claimed performance, the machines shall be disconnected from the grid and the machine(s) will be dismantled at the owner's cost.

xii. The second hand machines will not be allowed to be installed in the country. The developer will submit a notarised affidavit, to this effect to the concerned utility.

xiii. The self-certification guidelines for installation of WTGs which are under testing and certifications under existing and new manufacturers' category, has been discontinued with immediate effect as it allows installation of non-certified machines. This guideline will cover all such machines that have already been approved under the RLMM scheme, but not yet installed.

However, self-certified machines approved under the RLMM scheme and installed will be subject to guidelines issued vide circular no. 66/53/2006-WE dated 08.12.2009 & 08.01.2010 that required submission of the documents related to type certificate within the committed timeframe and other requirements as per Para 3 (i) to (xii) above. C-WET will monitor this aspect and inform the Ministry regularly on the status.

xiv. Non-compliance to any of the above conditions including false statements given in the affidavit mentioned above will invite heavy penalty in accordance to Indian Law and also the machines will be uninstalled, dismantled and removed from the sites at the cost of the manufacturer(s).

xv. The Advisory and Monitoring Committee already set up, vide OM no. 58/77/2011-WE dated 12.09.2011 under the Chairmanship of JS (Wind) / Adviser (Wind) with members including ED, C-WET, Chairman, IWTMA and concerned Director in MNRE, shall monitor adequacy of manufacturing as well as indigenous manufacturing of the components.

4.0 These guidelines will become effective from 01.12.2011 and from the same day the RLMM Committee will stand dissolved. This issues in supersession to all such guidelines issued by the Ministry on the subject matter and has the approval of the competent authority vide dy no-----dated

### ***Appendix - Recognised Certification Schemes***

The following certification schemes will be recognized when an accredited certifying body carries out certification.

- ***IEC Certification Scheme –in vogue***
- ***Germanisher Loyds Certification Scheme – in vogue***
- ***The Danish Certification Scheme – in vogue***
- ***The Dutch Certification Scheme – in vogue***