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एकक प्रमुख प्रभारी - मानक एवं प्रमाणन
A. Senthil Kumar
Unit Chief (i/c), Standards & Certification

Ref.No. : C-WET/S&C/RLMM/2007-08/20

Date : 11.07.2007

«Designation»
«Company»
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Dear Sir,

Sub: Revised List of Models and Manufacturers of Wind Electric Generators / Wind Turbine Equipment.

The updated list of “**Models and Manufacturers of Wind Electric Generators / Wind Turbine Equipment**”, prepared, as per the guidelines of MNES 66/53/2000-WE(PG) dated 23.10.2000 and MNES 66/53/2000-WE dated 06.07.2006, based on the information provided by the manufacturers, is enclosed.

Thanking you,

Yours faithfully,

For Centre for Wind Energy Technology

(A. Senthil Kumar)

Encl: As above

Sir,

Sub: Revised List of Models and Manufacturers of Wind Electric Generators / Wind Turbine Equipment.

The Ministry had issued guidelines vide Circular No.66/241/95-WE(PG) dated 13.06.1996 to streamline the development and facilitate healthy and orderly growth of the wind power sector in the country. The guidelines, inter-alia, include measures for the installation of duly tested and certified quality equipment which will optimize generation of energy from wind power projects. As per the revised guidelines No. 66/53/2000-WE(PG) dated 23.10.2000, para 3, point (i), on re-introduction of requirement of Certification by Independent testing and Certification agencies, the Ministry's guidelines No. 66/53/2000-WE dated 06.07.2006, the list of manufacturers has been drawn up by C-WET with models of wind turbines of unit capacity 225kW and above that have obtained type approval / certificate from designated certification agencies, as per the information received from the manufacturers. The list has three tables as detailed below:

1. Table-A : List of wind turbine models possessing valid type approval / Certificate
2. Table - B : List of wind turbine models under certification at C-WET
3. Table - C : List of wind turbine models under certification at C-WET and kept in abeyance by the RLMM committee (As per the MNRE guidelines dated 06.07.2006, para 2 (iv), the wind turbine models are kept separately in Table - C, withdrawing their entitlement for commercial deployment of machines under self certification)

Table – A: The wind turbine models possessing valid Type Approvals / Certificates :

Sl. No.	Indian Manufacturers with address	Collaboration / Joint Venture	Model Rotor Dia (RD) (m) / Hub height (HH) (m)	Capacity	* Type Certificate	Manufacturing System Certificate (ISO Certificate)
1.	M/s Enercon (India) Ltd. _“Enercon Tower” A-9, Veera Industrial Estate Veera Desai Road Andheri (West) Mumbai - 400 053 Phone : 022-66924848 Fax : 022- 67040473	Enercon GmbH, Germany	E - 40 / 6.44 / E3 RD : 44 m HH : 50 m Tower type: Tubular steel	600 kW	Available	Yes
			Enercon E - 48 RD : 48 m HH : 50/ 57/ 75 m Tower type: For HH 50/57/75 m–Tubular steel & 75 m - precast concrete	800 kW	Available	
			E -53 RD : 53 m HH : 73 m / 75 m Tower type: For HH 73 m–Steel & 75 m - concrete tower	800 kW	Available	

* State Electricity Boards / TRANSCOs/ State Nodal Agencies/ developers shall refer complete type approval / certificate of the models listed above for verification of validity period, detailed specifications and power curve.

Sl. No.	Indian Manufacturers with address	Collaboration / Joint Venture	Model Rotor Dia (RD) (m) / Hub height (HH) (m)	Capacity	* Type Certificate	Manufacturing System Certificate (ISO Certificate)
2.	M/s Pioneer Wincon Private Ltd. 30/1A, Harrington Chambers, 2 nd Floor, "B" Block Abdul Razaq, 1 st Street, Saidapet Chennai- 600 015 Phone : 044 - 24314790 Fax : 044 - 24314789	None	Pioneer P 250/29 RD : 29 m HH : 50 m Tower type: Lattice	250 kW	Available	Yes
3	M/s Shriram EPC Limited 9.Vanagaram Road Ayanambakkam Chennai – 600 095 Phone: 044 - 26533313 Fax : 044 -26532780	Under License Agreement with TTG Industries Ltd.	SEPC 250 T RD : 28.5 m HH : 41.2 m Tower type: Lattice	250 kW	Available	Yes
4.	M/s. Southern Wind Farms Limited No.15, Soundarapandian Salai, Ashok nagar, Chennai – 600 083 Phone : 044 – 39182618 Fax : 044 – 39182636	None	GWL 225 RD : 29.8 m HH : 45 m Tower type : Tubular	225 kW	Available	Yes
5.	M/s Suzlon Energy Ltd. 5 th Floor, Godrej Millennium 9, Koregaon Park Road, Pune – 411 001 Phone: 020- 4012 2000 Fax : 020 - 4012 2100	Suzlon Energy Gmbh, Germany (Subsidiary of Suzlon Energy Limited)	Suzlon S64 /1000 kW RD : 64 m HH : 65 m Tower type: Lattice	1000 kW	Available	Yes
			Suzlon S 64/1250 kW, tubular towers 56 m, 65 m, 74m and lattice tower 65 m RD : 64 m HH : 57m, 65m, 75 m Tower type: For HH 57/65 /75 m–Tubular steel & 65 m– Lattice	1250 kW	Available	
			Suzlon S.66/1250 kW RD : 66 m HH : 75 m Tower type: Tubular Steel	1250 kW	Available	
			Suzlon S.66/1250 kW, 65 m Lattice Tower RD : 66 m HH : 65 m Tower type: Lattice	1250 kW	Available	

* State Electricity Boards / TRANSCOs/ State Nodal Agencies/ developers shall refer complete type approval / certificate of the models listed above for verification of validity period, detailed specifications and power curve.

Sl. No.	Indian Manufacturers with address	Collaboration / Joint Venture	Model Rotor Dia (RD) (m) / Hub height (HH) (m)	Capacity	* Type Certifi- cate	Manufacturing System Certificate (ISO Certificate)
			Suzlon S70 – 1250 kW, tubular tower 74 m RD : 70 m HH : 75 m Tower type: Tubular	1250 kW	Available	
			Suzlon S.82 /1500 kW RD : 82 m HH : 78 m Tower type: Tubular	1500 kW	Available	
			Suzlon S88 /2100 kW, V1+VG RD : 88 m HH : 80 m Tower type: Tubular Steel	2100 kW	Available	
			Suzlon S88 / 2100 kW, V2 RD : 88 m HH : 80 m Tower type : Tubular steel	2100 kW	Available	
6.	M/s Vestas RRB India Limited No.17 , Vembuliamman Koil Street, K.K. Nagar (West) Chennai- 600 078 Phone: 044-23641111 Fax : 044-23642222	Technological cooperation with Vestas Wind Systems A/s, Denmark	V39-500 kW with 47m rotor diameter RD : 47m HH : 40/ 45 / 50 m Tower type: For HH 40/45 / 50 m–Tubular steel & 40/45 / 50 m– Lattice	500kW	Available	Yes
			Pawan Shakthi–600 kW RD : 47m HH : 50 m Tower type: Lattice	600kW	Available	
7.	M/s Vestas Wind Technology India Private Limited (Formerly M/s NEG Micon (India) Private Ltd) 298, Old Mahabalipuram Road, Sholinganallur, Chennai- 600 119 Phone :044- 24505100 Fax: 044- 24505101	Wholly owned subsidiary of Vestas group, Denmark	NM 48 / 750 RD : 48.2 m HH : 45/ 50/ 55 m Tower type: Conical steel	750 kW	Available	Yes
			NM 54 / 950 RD : 54.5 m HH : 44/ 55/ 70 m Tower type: Tubular steel	950 kW	Available	
			NM 82 / V 82-1.65 MW 1-speed MK II RD : 82 m HH : 59 / 68.5 / 70 / 78 m Tower type: Tubular steel	1650 kW	Available	

* State Electricity Boards / TRANSCOs/ State Nodal Agencies/ developers shall refer complete type approval / certificate of the models listed above for verification of validity period, detailed specifications and power curve.

Table – B: The wind turbine models that are under Type Certification at C-WET :

Sl. No.	Indian Manufacturers with address	Collaboration / Joint Venture	Model Rotor Dia (RD) (m) / Hub height (HH) (m)	Capacity	Type Certificate	Manufacturing System Certificate (ISO Certificate)
1.	M/s Elecon Engineering Company Ltd. Post Box No. 6 , Anand Sojitra Road, Vallabh Vidyanagar, Gujarat- 388 120 Phone : 02692 – 227077 Fax : 02692 – 236457	Under License Agreement with Turbowinds N.V., Belgium	T600-48 RD : 48 m HH : 50 / 55 / 60 m Tower type: Tubular	600 kW	Under Type Certification (Category-I) at C-WET	No
2.	M/s Suzlon Energy Ltd. 5 th Floor, Godrej Millennium 9, Koregaon Park Road, Pune – 411 001 Phone: 020 - 4012 2000 Fax : 020 - 4012 2100	Suzlon Energy Gmbh, Germany (Subsidiary of Suzlon Energy Limited)	N3335/ 350 kW RD : 33.4 m HH : 60/70 m Tower type: Lattice	350 kW	Under Type certification / Testing (Category – II) at C-WET.	Yes
			Suzlon 600 kW RD : 52 m HH : 75 m Tower type: Lattice	600 kW	Under Type Certification & Testing (Category-III) at C-WET	
3.	M/s Vestas RRB India Limited No.17 , Vembuliamman Koil Street, K.K. Nagar (West) Chennai- 600 078 Phone: 044-23641111 Fax : 044-23642222	Technological cooperation with Vestas Wind Systems A/s, Denmark	Vestas V27 – 225 kW RD : 27 m HH : 31.5 m Tower type: Conical Tubular	225 kW	Under Type Certification (Category-I) at C-WET	Yes

Contd...5

Table – C: The wind turbine models that are under Type Certification at C-WET and kept in abeyance by RLMM Committee :

Sl. No.	Indian Manufacturers with address	Collaboration / Joint Venture	Model Rotor Dia (RD) (m) / Hub height (HH) (m)	Capacity	Type Certificate	Manufacturing System Certificate (ISO Certificate)
1.	M/s India Windpower Ltd A-801, Nirman Complex, Opp. Havmor Restaurant, Navrangpura, Ahmedabad – 380 009. Phone : 079 - 26441564 Fax : 079 – 26561318	None	I 29 / 250 RD : 29.7 m HH : 50.0 m Tower type: Lattice	250 kW	Under Type Certification & Testing (Category-III) at C-WET	Yes

The list has been drawn up on the basis of information on valid type approvals provided by the manufacturing companies. State Electricity Boards / State Nodal Agencies and developers may verify the validity of the type approvals. C-WET has no responsibility for technical, commercial and legal implications in this regard. The list will be updated on a quarterly basis.

This supersedes the list issued vide our letter no. C-WET/S&C/RLMM/2007-08/01 dated 2nd April, 2007.

for Centre for Wind Energy Technology

(A. Senthil Kumar)
Unit Chief (i/c),
Standards & Certification

To

1. The Adviser / Director - (Wind), MNRE, New Delhi.
2. All State Nodal Agencies
3. All State Electricity Boards / TRANSCOs
4. All Wind Turbine Manufacturers
5. All Financial Institutions
6. Indian Wind Turbine Manufacturers Association
7. Indian Wind Power Producer's Association.
8. C-WET Website www.cwet.nic.in