

**NATIONAL INSTITUTE OF WIND ENERGY (NIWE)
CHENNAI – 600 100**

Ref. No.: NIWE/S&C/RLMM/2015-16/81

Date : 03.02.2016

To

All Concerned

Dear Sir,

**Sub: Revised List of Models and Manufacturers of Wind Turbines - “ADDENDUM – I List”
to “Main List dated 28.09.2015”**

The “ADDENDUM – I List” to “Main List dated 28.09.2015” of “Models and Manufacturers of wind turbines” prepared as per MNRE guidelines No.66/53/2000-WE (PG) dated 23.10.2000, based on the information provided by wind turbine manufacturers, is enclosed.

Thanking you,

Yours faithfully,
For National Institute of Wind Energy

(A. Senthil Kumar)
Director & Head,
Standards & Certification

Encl: As above

Sir,

Sub: Revised List of Models and Manufacturers of Wind Turbines - “ADDENDUM – I List” to “Main List dated 28.09.2015”

In continuation to the Revised List of Models and Manufacturers of wind turbines – “Main List dated 28.09.2015”, this “ADDENDUM – I List” is prepared and detailed below. The list of manufacturers has been drawn up with models of wind turbines of unit capacity 225kW and above that have obtained type approval / certificate from designatpped certification agencies, as per the information received from the manufacturers.

1. Table – A : List of wind turbine models possessing valid Type Approval / Certificate
(This Table – A is in addition to the Table - A of “Main List dated 28.09.2015”)

Table – A: The wind turbine models possessing valid Type Approval / Certificate:

Sl. No	Indian Manufacturers with address	Collaboration / Joint Venture	Model / Rotor Dia (RD) (m) / Hub Height (HH) (m) / Tower Type	Capacity	**Type Certificate (Valid until)	*Self Declaration on compliance		**Manuf acturing system Certificate / ISO Certificate (Valid until)
						LVRT (Voltage dips)	Harm- onics	
1.	M/s. Gamesa Renewable Private Limited (Formerly M/s. Gamesa Wind Turbines Private Limited) No. 334, The Futura IT Park, Block - B, 8th Floor, Rajiv Gandhi Salai, Sholinganallur, Chennai - 600119 Phone: 044-39242424 Fax : 044-30060661	Gamesa Innovation and Technology, S.L, Spain	G114 -2.0MW IEC-III A HH80,93 & 125m 50/60Hz RD: 114 m HH: 80/93/125 m Tower Type: Tubular Steel	2000 kW	Available (12-12-2019)	Yes	Yes	Yes (13-07-2018)
			G114-2.0MW IEC S RD: 114 m HH: 106 /110 m (with a pedestal) Tower Type: Tubular Steel	2000 kW	Available (10-09-2020)	Yes	Yes	

* Based on the self declaration by the wind turbine manufacturers on compliance of LVRT (Voltage dips) and Harmonics requirements as per CEA notification No.12/X/STD (CONN)/GM/CEA dated 15.10.2013.

** State Electricity Boards / TRANSCOs/ State Nodal Agencies/ Developers shall refer complete Type Approval / Certificate of the models listed above including ISO certificate for verification of validity period, detailed specifications, power curve and all the other relevant information. **Also refer the renewed Type Certificate / ISO certificate for the validity period above than the period mentioned.**

Sl. No	Indian Manufacturers with address	Collaboration / Joint Venture	Model / Rotor Dia (RD) (m) / Hub Height (HH) (m) / Tower Type	Capacity	**Type Certificate (Valid until)	*Self Declaration on compliance		**Manufacturing system Certificate / ISO Certificate (Valid until)
						LVRT (Voltage dips)	Harm- onics	
2.	M/s. GE India Industrial Private Limited Division : Wind Energy 601, 6th Floor, Tower B, RMZ Infinity, Old Madras Road, Bangalore – 560016. Phone: 080-40482451 Fax : 080-40482341	GE Infrastructure Technology International, LLC, USA	GE 1.7-103, GE 50.2, HH 79.7 m & 91 m, 50 Hz RD: 103 m HH: 79.7 / 91 m Tower Type: Tubular Steel	1700 kW	Available (11-06-2020)	Yes	Yes	Yes (31-03-2017)
3.	M/s. Inox Wind Limited Inox Towers, Plot No. 17 Sector - 16-A, Noida, Uttar Pradesh – 201301 Phone: 0120-6149600 Fax : 0120-6149610	AMSC Austria GmbH, Austria	DF/2000/100 RD: 100 m HH: 80 / 92 m Tower Type: Tubular Steel	2000 kW	Available (01-06-2019)	Yes	Yes	Yes (23-06-2016)
4.	M/s. Para Enterprises Private Limited (Formerly M/s. Pioneer Wincon Private Limited) 30/1A, Harrington Chambers, II Floor, 'B' Block, Abdul Razaq 1st Street, Saidapet, Chennai – 600015. Phone: 044-24314790 Fax : 044-24314789	None	Pioneer Wincon 750/49 RD: 49 m HH: 61.1 m Tower Type: Lattice	750 kW	Available (31-07-2016)	No	Yes	Yes (05-03-2018)
5.	M/s. PASL Wind Solutions Private Limited Plot No. 34-35, Phase -I, G.I.D.C, Vatva, Ahmedabad- 382445, Gujarat Phone: 079-40264747 Fax : 079-40264676	None	PWS 1800i (de-rated configuration) RD: 83.64 m HH: 80 m Tower Type: Tubular Steel	1500 kW	Available (03-09-2017)	Yes	Yes	Yes (09-08-2017)

* Based on the self declaration by the wind turbine manufacturers on compliance of LVRT (Voltage dips) and Harmonics requirements as per CEA notification No.12/X/STD (CONN)/GM/CEA dated 15.10.2013.

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Sl. No	Indian Manufacturers with address	Collaboration / Joint Venture	Model / Rotor Dia (RD) (m) / Hub Height (HH) (m) / Tower Type	Capacity	**Type Certificate (Valid until)	*Self Declaration on compliance		**Manufacturing system Certificate / ISO Certificate (Valid until)
						LVRT (Voltage dips)	Harm- onics	
6.	M/s. Regen Powertech Private Limited KRM Plaza, North Tower, 7th Floor, No.2, Harrington Road, Chetpet Chennai - 600031 Phone: 044-30230200 Fax : 044-30230298	VENSYS Energy AG, Germany	VENSYS 82 RD: 82.34 m HH: 70/75/85/100 m Tower Type: Tubular Steel	1500 kW	Available (13-11-2016)	Yes	Yes	Yes (20-06-2017)
			VENSYS 87 RD: 86.6 m HH: 85 / 100 m Tower Type: Tubular Steel	1500 kW	Available (29-06-2017)	Yes	Yes	
			VENSYS 89 RD: 88.34 m HH: 85 m Tower Type: Tubular Steel	1500 kW	Available (26-07-2016)	Yes	Yes	
7.	M/s. Southern Wind Farms Limited No. 15, Soundara Pandian Street, Ashok Nagar, Chennai - 600083 Phone: 044-39182600 Fax : 044-39182636	None	GWL 225 RD: 29.8 m HH: 45 m Tower Type: Tubular Steel	225 kW	Available (05-01-2017)	No	Yes	Yes (14-09-2018)
8.	M/s. Suzlon Energy Limited Tree Lounge, Level 0, Left wing, One Earth, Opp. Magarpatta City Hadapsar Pune - 411028. Phone: 020-67022000 Fax : 020-67022200	None	Suzlon S82V3-1500kW RD: 82 m HH: 78 m Tower Type: Tubular Steel	1500 kW	Available (26-08-2016)	No	Yes	Yes (12-04-2018)
			Suzlon S95 DFIG 2.1 MW RD: 95 m HH: 80/90/100 m Tower Type: Tubular Steel	2100 kW	Available (31-08-2017)	Yes	Yes	

* Based on the self declaration by the wind turbine manufacturers on compliance of LVRT (Voltage dips) and Harmonics requirements as per CEA notification No.12/X/STD (CONN)/GM/CEA dated 15.10.2013.

** State Electricity Boards / TRANSCOs/ State Nodal Agencies/ Developers shall refer complete Type Approval / Certificate of the models listed above including ISO certificate for verification of validity period, detailed specifications, power curve and all the other relevant information. **Also refer the renewed Type Certificate / ISO certificate for the validity period above than the period mentioned.**

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Sl. No	Indian Manufacturers with address	Collaboration / Joint Venture	Model / Rotor Dia (RD) (m) / Hub Height (HH) (m) / Tower Type	Capacity	**Type Certificate (Valid until)	*Self Declaration on compliance		**Manufacturing system Certificate / ISO Certificate (Valid until)
						LVRT (Voltage dips)	Harm- onics	
			Suzlon S97 DFIG 2.1 MW RD: 97 m HH: 80/90/100/120 m Tower Type: For HH 80/90/100m–Tubular Steel & HH 120 m - Hybrid Tower (Lattice tower 66 m, adapter 4.29m and Tubular tower 45.97m)	2100 kW	Available (31-08-2017)	Yes	Yes	
			S97-HT DFIG 2.1 MW RD: 97 m HH: 120 m Tower Type: Hybrid Tower (Lattice tower 66 m, adapter 4.29m and Tubular tower 45.97m)	2100 kW	Available (23-07-2016)	Yes	Yes	
			SUZLON S111 DFIG 2.1MW (50 Hz) RD: 111.8 m HH: 90 m Tower Type: Tubular Steel	2100 kW	Available (12-08-2020)	Yes	Yes	
9.	M/s. Winwind Power Energy Private Limited No.322/10, Vallal RCK Nagar, Vengal Village Thiruvallur Taluk & District -601103 Tamilnadu Phone: 044-39223000 Fax : 044-39223001	WINWIND OY, Finland	WinWinD 1 MW RD: 60 m HH: 70 m Tower Type: Conical steel	1000 kW	Available (01-12-2016)	Yes	Yes	Yes (04-03-2018)

* Based on the self declaration by the wind turbine manufacturers on compliance of LVRT (Voltage dips) and Harmonics requirements as per CEA notification No.12/X/STD (CONN)/GM/CEA dated 15.10.2013.

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This RLMM “ADDENDUM-I LIST” has been prepared with the available documents / information furnished by the wind turbine manufacturers for the designated wind turbine models during the period of review by RLMM committee appointed by MNRE, Government of India. State Electricity Boards, TRANSCOs, State Nodal Agencies, Developers and any party referring the “ADDENDUM – I List” along with “Main List dated 28.09.2015” shall verify complete type approval / certificate of the models listed above including ISO certificate for verification of validity period, detailed specifications, power curve and all the other relevant information including its legal implications. **Interested wind turbine manufacturers may kindly watch the NIWE website regarding the call for the next “Addendum List”.**

DISCLAIMER

Inclusion of any wind turbine manufacturer and wind turbine model in RLMM by the RLMM Committee (formulated by the Ministry of New & Renewable Energy, Government of India) is based on the documents and information furnished by the respective company and it does not amount to certification or recommendation in any manner including suitability, usability etc., of the wind turbine models included in the list.

Nevertheless, NIWE/MNRE shall in no way be responsible or liable for any consequences including technical, commercial, operational, environmental and legal implications that may arise due to the usage of the list by any party at any time. The responsibility for the usage, verification of complete documents and consequences thereof lies entirely with the user.

for National Institute of Wind Energy

**(A. Senthil Kumar)
Director & Head,
Standards & Certification**

To

1. The Joint Secretary – (Wind Energy), MNRE, New Delhi.
2. Scientist / Director - (Wind Energy), MNRE, New Delhi.
3. All State Nodal Agencies
4. All State Electricity Boards / TRANSCOs
5. All Wind Turbine Manufacturers
6. All Financial Institutions
7. Indian Wind Turbine Manufacturers Association
8. Indian Wind Power Association.
9. NIWE Website: niwe.res.in
