

NATIONAL INSTITUTE OF WIND ENERGY (NIWE)

Ref. No.: NIWE/S&C/RLMM/2015-16/45

Date : 28.09.2015

To

All Concerned

Dear Sir,

Sub: Revised List of Models and Manufacturers of Wind Turbines - “MAIN LIST”

The revised “**MAIN LIST**” 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 –“MAIN LIST”

The Ministry had issued guidelines vide MNRE 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 of MNRE 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 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 designated certification agencies as detailed below, as per the information received from the manufacturers:

1. Table – A : List of wind turbine models possessing valid Type Approval / Certificate
(This list supersedes the Main List dated 11.09.2014, Addendum-I List dated 09.01.2015 and Addendum-II List dated 15.05.2015)

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		**Manufacturing system Certificate / ISO Certificate (Valid until)
						LVRT (Voltage dips)	Harmonics	
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	G52-850 kW 50 Hz RD: 52 m HH: 44/55/65 m Tower Type: Tubular steel	850 kW	Available (12-12-2015)	Yes	Yes	Yes (13-07-2018)

* 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.

** 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)	Harmonics	
			Gamesa G58-850 kW IEC IIA RD: 58 m HH: 49/55/65 m Tower Type: Tubular steel	850 kW	Available (19-09-2017)	Yes	Yes	
			G58-850 kW 50 Hz IEC IIIB RD: 58 m HH: 44/55/65/74 m Tower Type: Tubular Steel	850 kW	Available (12-12-2015)	Yes	Yes	
			G97-2MW IEC IIIA HH 78&90m 50 Hz RD: 97 m HH: 78/ 90 m Tower Type: Tubular Steel	2000 kW	Available (30-03-2017)	Yes	Yes	
			G97GF-2.0MW IEC-III A HH78&90m 50Hz RD: 97 m HH: 78/90 m Tower Type: Tubular Steel	2000 kW	Available (31-08-2017)	Yes	Yes	
			Gamesa G97I 50 Hz RD: 97 m HH: 78/90 m Tower Type: Tubular Steel	2000 kW	Available (24-09-2019)	Yes	Yes	
			G97-2.0 MW 50 Hz RD: 97 m HH: 104/ 108 m Tower Type: Tubular Steel	2000 kW	Available (25-09-2019)	Yes	Yes	
			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	

* 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)	Harmonics	
2.	M/s Garuda Vaayu Shakthi Limited "OCE Tower", 4th Floor, No.5, PMK Nagar, Mahalingapuram Main Road, Nungambakkam, Chennai - 600 034 Phone: 044-28271802 Fax : 044-28271804	None	Garuda 700.54, EU54.1250.1-B, HH 73 m RD: 54 m HH: 73 m Tower Type: Tubular Steel	700 kW	Available (31-07-2018)	Yes	Yes	Yes (09-02-2017)
3.	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 1.6-82.5, 50 Hz RD: 82.5 m HH: 80 m Tower Type: Tubular Steel	1600 kW	Available (09-07-2016)	Yes	Yes	Yes (31-03-2017)
			GE 1.6-87, 50Hz,LM 42.1P2,HH 80m RD: 87 m HH: 80 m Tower Type: Tubular Steel	1600 kW	Available (09-07-2016)	Yes	Yes	
			GE 1.7-103, GE 50.2, HH 79.7 m, 50Hz RD: 103 m HH: 79.7 m Tower Type: Tubular Steel	1700 kW	Available (11-06-2020)	Yes	Yes	
4.	M/s. Global Wind Power Limited No. 15, Soundara Pandiyan Street, Ashok Nagar, Chennai - 600083 Phone: 044-39182609 Fax : 044-39182636	Guangdong Ming Yang Wind Power Industry Group Co. Ltd., China	Mingyang 1.5 MW HH 75m TC IIA RD: 77.36 m HH: 75 m Tower Type: Tubular Steel	1500 kW	Available (17-06-2017)	Yes	Yes	Yes (12-02-2018)
			MingYang 1.5 MW -89 HH 80 m IEC S RD: 89.3 m HH: 80 m Tower Type: Tubular Steel	1500 kW	Available (18-12-2019)	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.

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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)	Harmonics	
5.	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	WT2000DF RD: 93.3 m HH: 80 m Tower Type: Tubular Steel	2000 kW	Available (01-03-2017)	Yes	Yes	Yes (23-06-2016)
			DF/2000/100 RD: 100 m HH: 80 /92 m Tower Type: Tubular Steel	2000 kW	Available (01-06-2019)	Yes	Yes	
6.	M/s. Kenersys India Private Limited Industry House, Survey No. 49 Mundhwa, Pune - 411036 Phone: 020- 30473100 Fax : 020 -30473133	None	K82 RD: 82 m HH: 80/ 98 m Tower Type: Tubular Steel	2000 kW	Available (24-05-2018)	Yes	Yes	Yes (09-11-2017)
			K100 RD: 100 m HH: 85 / 100 m Tower Type: Tubular Steel	2500 kW	Available (20-07-2016)	Yes	Yes	
			K110 RD: 109 m HH: 85 / 95 m Tower Type: Tubular Steel	2400 kW	Available (04-07-2018)	Yes	Yes	
			K110 P+ RD: 109 m HH: 85 m Tower Type: Tubular Steel	2625 kW	Available (10-04-2019)	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.

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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)	Harmonics	
7.	M/s. Leitwind Shriram Manufacturing Limited No. D-17, Sipcot Industrial Complex, Gummidipoondi - 601201 Thiruvallur District, Tamil Nadu Phone: 044-27926000 Fax : 044-27924944	WindFin B.V, The Netherlands (formerly known as Leitwind B.V)	Leitwind LTW77-1.5 MW RD: 76.6 m HH: 61/65/80 m Tower Type: For HH 61/65/80 m-Tubular Steel & HH 80 m - hybrid tower (steel and concrete)	1500 kW	Available (18-09-2016)	Yes	Yes	Yes (12-01-2018)
			Leitwind LTW80-1.5 RD: 80.3 m HH: 80 m Tower Type: Tubular Steel	1500 kW	Available (08-03-2020)	Yes	Yes	
			Leitwind LTW80-1.8 RD: 80.3 m HH: 80 m Tower Type: Tubular Steel	1800 kW	Available (08-03-2020)	Yes	Yes	
			Leitwind LTW86-1.5 MW RD: 86.4 m HH: 80 m Tower Type: Tubular Steel	1500 kW	Available (07-07-2018)	Yes	Yes	
			Leitwind LTW101-3.0 RD: 100.9 m HH: 93.5 m Tower Type: Tubular Steel	3000 kW	Available (07-12-2019)	Yes	Yes	
8.	M/s. NuPower Technologies Private Limited 618, Maker Chambers V, Nariman Point, Mumbai - 400021 Phone: 022-66325132 Fax : 022-22875584	W2E Wind to Energy GmbH, Germany	W2E-93/2.05 MW RD: 93.2 m HH: 85/98.2 m Tower Type: Tubular Steel	2050 kW	Available (02-05-2017)	Yes	Yes	Yes (02-02-2018)

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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)	Harmonics	
			W2E-100/2.05 MW RD: 100.13 m HH: 98.2 /117/141 m Tower Type: For HH 98.2 m-Tubular Steel & HH 117/141 m - Lattice tower	2050 kW	Available (24-04-2019)	Yes	Yes	
9.	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 250/29 RD: 29.6 m HH: 50 m Tower Type: Lattice	250 kW	Available (22-06-2016)	No	Yes	Yes (05-03-2018)
			Pioneer Wincon 750/49 RD: 49 m HH: 61.1 m Tower Type: Lattice	750 kW	Available (17-11-2015)	No	Yes	
10.	M/s. PowerWind Limited, 3rd Floor, GL Business Centre, Old Delhi-Gurgaon Road, Opp. Udyog Vihar Phase-I, Dundahera, Gurgaon, Haryana-122016 Phone: 0124-4984455 Fax : 0124-4984466	None	PowerWind 56 RD: 56 m HH: 71 m Tower Type: Tubular Steel	900 kW	Available (18-06-2019)	Yes	Yes	Yes (14-05-2017)
11.	M/s. Regen Powertech Private Limited Samson Towers, 5th Floor, 403 L, Pantheon Road, Egmore, Chennai - 600008 Phone: 044-30230200 Fax : 044-30280199	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	

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						LVRT (Voltage dips)	Harmonics	
12.	M/s. RRB Energy Limited 182/2, Bypass Road, Poonamallee, Chennai - 600056. Phone: 044- 26271111 Fax : 044- 26271114	Technological co-operation with Vestas Wind Systems A/S, Denmark	V 39-500 kW with 47m Rotor diameter RD: 47 m HH: 50 m Tower Type: Tubular steel & Lattice	500 kW	Available (03-04-2016)	No	Yes	Yes (14-12-2017)
			Pawan Shakthi-600KW RD: 47 m HH: 50/65 m Tower Type: For HH 50 m - Lattice & For HH 65 m-Tubular Steel	600 kW	Available (04-07-2016)	No	Yes	
		None	Pawanshakthi PS 1800 (HH 80m / 100m) RD: 82.4 m HH: 80/100 m Tower Type: Tubular Steel	1800 kW	Available (23-06-2017)	Yes	Yes	
13.	M/s. Shriram EPC Limited 18/3, 4th floor, Sigappiachi Building, Rukmani Lakshmi pathi Salai, (Marshall's Road), Egmore, Chennai - 600008 Phone:044-49015678 Fax : 044-49015655	TTG Industries Limited	SEPC 250T 41.5 m Lattice Tower RD: 28.5 m HH: 41.5 m Tower Type: Lattice	250 kW	Available (02-12-2018)	No	Yes	Yes (08-04-2016)
			SEPC 250T 51.5 m Lattice Tower RD: 28.5 m HH: 51.5 m Tower Type: Lattice	250 kW	Available (29-05-2018)	No	Yes	
14.	M/s. Siva Windturbine India Private Limited 12/A, Kandampalayam, Perundurai, Erode-District Pin: 638052 Phone: 04294-220017 Fax : 04294-220137	None	SIVA 250/50 RD: 30 m HH: 50 m Tower Type: Lattice	250 kW	Available (30-01-2016)	No	Yes	Yes (30-09-2017)

* 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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						LVRT (Voltage dips)	Harmonics	
15.	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 (05-01-2016)	No	Yes	Yes (05-01-2016)
16.	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	Suzlon Energy GmbH, Germany	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 S88 V3A-2100kW RD: 88 m HH: 80 m Tower Type: Tubular Steel	2100 kW	Available (24-11-2015)	No	Yes	
			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	
			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	

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						LVRT (Voltage dips)	Harmonics	
17.	M/s. Vestas Wind Technology India Private Limited 298, Rajiv Gandhi Salai, Shollinganallur, Chennai - 600119 Phone: 044-24505100 Fax : 044-24505101	Vestas Wind Systems A/S, Denmark	Vestas V100-1.8 MW 50 Hz VCS Mk 7 RD: 100 m HH: 80/95/120 m Tower Type: Tubular steel	1800 kW	Available (04-03-2016)	Yes	Yes	Yes (10-09-2016)
			Vestas V100-1.8MW 50Hz VCS Mk7.1 RD: 100 m HH: 95 m Tower Type: Tubular steel	1800 kW	Available (07-02-2017)	Yes	Yes	
			Vestas V100-2.0MW 50Hz VCS Mk7.1 RD: 100 m HH: 80/95 m Tower Type: Tubular steel	2000 kW	Available (09-03-2017)	Yes	Yes	
			Vestas V100-2.0MW 50Hz VCS Mk7 RD: 100 m HH: 80/95/120 m Tower Type: Tubular steel	2000 kW	Available (09-03-2017)	Yes	Yes	Yes (31-12-2016)
			Vestas V110-2 MW 50Hz VCS Mk 10 RD: 110 m HH: 80/95/110/120/125 m Tower Type: Tubular steel	2000 kW	Available (16-01-2020)	Yes	Yes	
			Vestas V110-2 MW 50Hz VCS Mk 10 IEC S RD: 110 m HH: 110 m Tower Type: Tubular steel	2000 kW	Available (16-01-2020)	Yes	Yes	

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						LVRT (Voltage dips)	Harmonics	
18.	M/s. Wind World (India) Limited "Wind world Towers", Plot no. A-9, Veera Industrial Estate, Veera Desai Road, Andheri - West, Mumbai - 400053 Phone: 022-66924848 Fax : 022-66990940	Enercon GmbH, Germany	WW-53 (erstwhile E 53 in India) RD: 52.9 m HH: 75 m Tower Type: Concrete (Steel Upper Section)	800 kW	Available (18-04-2018)	Yes	Yes	Yes (28-03-2018)
19.	M/s. Winwind Power Energy Private Limited No.322/10, Vallal RCK Nagar, Vengal Village Thiruvallur Taluk & District Pin-601103 Phone:044-39223000 Fax :044-39223001	WINWIND OY, Finland	WinWinD 1 MW RD: 60 m HH: 70 m Tower Type: Tubular steel	1000 kW	Available (12-11-2015)	Yes	Yes	Yes (04-03-2018)

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This “RLMM MAIN 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 “RLMM 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. This list supersedes the Main List dated 11.09.2014, Addendum-I List dated 09.01.2015 and Addendum-II List dated 15.05.2015. **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
