

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

Ref. No.: NIWE/S&C/RLMM/2016-17/72

Date : 26.10.2016

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 – A1 : List of wind turbine models possessing valid Type Approval / Certificate & Self Declared that their wind turbine model(s) comply with CEA Technical Standard for Connectivity to the Grid* in terms of LVRT (voltage dips) & Harmonics.
(This Table – A1 supersedes the Table – A1 of RLMM-Consolidated Addendum – II List dated 10.06.2016)
2. Table – A2 : List of wind turbine models possessing valid Type Approval / Certificate & Self Declared that their wind turbine model(s) do not comply with CEA Technical Standard for Connectivity to the Grid* in terms of LVRT (voltage dips).
(This Table – A2 supersedes the Table – A2 of RLMM-Consolidated Addendum – II List dated 10.06.2016)

Table – A1: The wind turbine models possessing valid Type Approval / Certificate & Self Declared that their wind turbine model(s) comply with CEA Technical Standard for Connectivity to the Grid in terms of LVRT (voltage dips) & Harmonics:

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)	**Manufacturing system Certificate / ISO Certificate (Valid until)
1.	M/s. Acciona Windpower India Private Limited C1-001, Tower C, Ground Floor, The Millenia, No. 1&2, Murphy Road, Ulsoor, Bangalore Karnataka-560 008 Phone:080- 41557100 Fax : 080- 41557110	Acciona Windpower, S.A., Spain	AW 125/3000 IEC Iib TH120 AW 61.2-2 50Hz RD: 125 m HH: 120 m Tower Type: Tubular Reinforcement Concrete	3000kW	Available (18-12-2020)	Yes (14-09-2018)

* CEA Technical Standard for Connectivity to the Grid 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)	**Manufacturing system Certificate / ISO Certificate (Valid until)
2.	<p>M/s. Gamesa Renewable Private Limited No. 334, The Futura IT Park, Block - B, 8th Floor, Rajiv Gandhi Salai, Sholinganallur, Chennai - 600119</p> <p>Phone: 044-39242424 Fax : 044-30060661</p>	Gamesa Innovation and Technology, S.L, Spain	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 (13-07-2018)
			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)	
			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)	
			Gamesa G97I 50 Hz RD: 97 m HH: 78/90 m Tower Type: Tubular Steel	2000 kW	Available (24-09-2019)	
			G97-2.0 MW 50 Hz RD: 97 m HH: 104/ 108 m Tower Type: Tubular Steel	2000 kW	Available (25-09-2019)	
			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)	
			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)	

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** 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)	**Manuf acturing system Certificate / ISO Certificate (Valid until)
3.	M/s. Garuda Vaayu Shakthi Limited 5D, PM Tower, No.37, Greems Road, Thousand Lights, Chennai - 600 006 Phone: 044-28290034 Fax : Nil	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 (09-02-2017)
4.	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 (30-06-2017)	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 (06-03-2018)	
			GE 1.7-103, GE 50.2, HH 79.7 m & 91 m, 50Hz RD: 103 m HH: 79.7 / 91 m Tower Type: Tubular Steel	1700 kW	Available (11-06-2020)	
			GE 2.3-116, LM56.9, GE56.9, HH 94 m, 50Hz RD: 116.7 m HH: 94 m Tower Type: Tubular Steel	2330 kW	Available (16-03-2021)	
5.	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 (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)	

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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)	**Manufacturing system Certificate / ISO Certificate (Valid until)
6.	M/s. Inox Wind Limited Inox Towers, Plot No. 17 Sector - 16-A, Noida, Uttar Pradesh – 201301 Phone: 0120-6149708 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 (14-09-2018)
			DF/2000/100 RD: 100 m HH: 80 / 92 m Tower Type: Tubular Steel	2000 kW	Available (01-06-2019)	
			DF/2000/113 RD: 113m HH: 92 / 120 m Tower Type: For HH 92 m–Tubular Steel & HH 120 m – Precast concrete tower with steel section	2000 kW	Available (01-09-2017) # (B – Type Certificate)	
7.	M/s. Kenersys India Private Limited Industry House, Survey No. 49 Mundhwa, Pune - 411036 Phone: 020-40026052 Fax : Nil	None	K82 RD: 82 m HH: 80/ 98 m Tower Type: Tubular Steel	2000 kW	Available (24-05-2018)	Yes (09-11-2017)
			K110 RD: 109 m HH: 85 / 95 m Tower Type: Tubular Steel	2400 kW	Available (04-07-2018)	
			K110 P+ RD: 109 m HH: 85 m Tower Type: Tubular Steel	2625 kW	Available (10-04-2019)	
8.	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 LTW80-1.5 RD: 80.3 m HH: 80 m Tower Type: Tubular Steel	1500 kW	Available (08-03-2020)	Yes (12-01-2018)
			Leitwind LTW80-1.8 RD: 80.3 m HH: 80 m Tower Type: Tubular Steel	1800 kW	Available (08-03-2020)	

Certificate which has outstanding issues.

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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)	**Manufacturing system Certificate / ISO Certificate (Valid until)
			Leitwind LTW86-1.5 MW RD: 86.4 m HH: 80 / 90 m Tower Type: Tubular Steel	1500 kW	Available (07-07-2018)	
			Leitwind LTW101-3.0 RD: 100.9 m HH: 93.5 m Tower Type: Tubular Steel	3000 kW	Available (07-12-2019)	
9.	M/s. NuPower Technologies Private Limited, 7 th Floor, Tower-1, Equinox Business Park, Off Bandra Kurla Road, L.B.S Road, Kurla (W) Mumbai - 400070 Phone: 022-33826000 Fax : 022-33826123	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 (02-02-2018)
			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)	
10.	M/s. Para Enterprises Private Limited 30/1A, Harrington Chambers, II Floor, 'B' Block, Abdul Razaq ¹ st Street, Saidapet, Chennai – 600015. Phone: 044-24314790 Fax : 044-24314789	None	Pioneer Wincon 750/49 RD: 49 m HH: 61.1 / 75.3 m Tower Type: Lattice	750 kW	Available (18-09-2021)	Yes (05-03-2018)
11.	M/s. PASL Wind Solutions Private Limited Plot No. 34-35 Phase-I, G.I.D.C, Vatva Ahmedabad Gujarat - 382 445 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 (22-12-2020)	Yes (09-08-2017)
			PWS 1250i (de-rated configuration) RD: 68 m HH: 74 m Tower Type: Tubular Steel	1050 kW	Available (16-02-2021)	

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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)	**Manufacturing system Certificate / ISO Certificate (Valid until)
12.	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 (14-05-2017)
13.	M/s. Regen Powertech Private Limited KRM Plaza, North Tower, 7th Floor, No.2, Harrington Road, Chetpet Chennai - 600031 Phone:044-42966200 Fax :044-42966298	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 (20-06-2017)
			VENSYS 87 RD: 86.6 m HH: 85 / 100 m Tower Type: Tubular Steel	1500 kW	Available (29-06-2017)	
			VENSYS 89 RD: 88.34 m HH: 85 m Tower Type: Tubular Steel	1500 kW	Available (05-07-2017)	
		wind-direct GmbH, Germany	wd2.8+109 RD: 108.82 m HH: 90 m Tower Type: Tubular Steel	2800 kW	Available (18-02-2017)	
14.	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 (03-04-2017)	Yes (14-12-2017)
			Pawan Shakthi-600kW RD: 47 m HH: 50/65 m Tower Type: For HH 50m - Lattice & For HH 65 m-Tubular Steel	600 kW	Available (04-07-2017)	

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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)	**Manufacturing system Certificate / ISO Certificate (Valid until)
		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)	
15.	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 S95 DFIG 2.1MW RD: 95 m HH: 80/90/100 m Tower Type: Tubular Steel	2100 kW	Available (31-08-2017)	Yes (12-04-2018)
			Suzlon S97 DFIG 2.1 MW 50 Hz 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)	
			SUZLON S111 DFIG 2.1 MW (50 Hz) RD: 111.8 m HH: 90/120 m Tower Type: For HH 90m–Tubular Steel & HH 120 m - Hybrid Lattice Tower	2100 kW	Available (12-08-2020)	
16.	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 V100-1.8MW 50Hz VCS Mk7.1 RD: 100 m HH: 95 m Tower Type: Tubular Steel	1800 kW	Available (07-02-2017)	Yes (31-12-2018)
			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)	

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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)	**Manufacturing system Certificate / ISO Certificate (Valid until)
			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)	
			Vestas V110-2 MW 50Hz VCS Mk 10 RD: 110 m HH: 80/95/110/120/125 m Tower Type: Tubular Steel	2000 kW/ 2100 kW/ 2200 kW	Available (25-08-2017) # (Provisional Type Certificate)	
			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)	
			Vestas V100-2 MW 50Hz VCS Mk10 RD: 100 m HH: 80/95 m Tower Type: Tubular Steel	2000 kW	Available (29-04-2020)	
17.	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 (28-03-2018)
18.	M/s. Winwind Power Energy Private Limited Mena Kampala Arcade, 113/114, 3 rd Floor, "A" Block, "B" Wing, Sir Theyagaraya Road, T-Nagar, Chennai-600017 Phone: 044-28150517 Fax : Nil	WINWIND OY, Finland	WinWinD 1 MW RD: 60 m HH: 70 m Tower Type: Conical Steel	1000 kW	Available (01-12-2016)	Yes (04-03-2018)

Certificate which has outstanding issues.

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Table – A2: The Wind turbine models possessing valid Type Approval / Certificate & Self Declared that their wind turbine model(s) do not comply with CEA Technical Standard for Connectivity to the Grid* in terms of LVRT (voltage dips):

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)	**Manufacturing system Certificate / ISO Certificate (Valid until)
1.	M/s. Para Enterprises 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 (12-05-2017) # (Provisional Type Certificate)	Yes (05-03-2018)
2.	M/s. Shriram EPC Limited 18/3, 4th floor, Sigappiachi Building, Rukmani Lakshmi pathi Salai, (Marshalls 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)	Yes (08-04-2017)
			SEPC 250T 51.5 m Lattice Tower RD: 28.5 m HH: 51.5 m Tower Type: Lattice	250 kW	Available (29-05-2018)	
3.	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 (30-11-2016) # (Provisional Type Certificate)	Yes (30-09-2017)
4.	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) # (Provisional Type Certificate)	Yes (14-09-2018)

Certificate which has outstanding issues.

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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 26.10.2016 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 RLMM-“Consolidated Addendum – II List dated 10.06.2016”.**

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
