F. No. 23/1/2012-SWES
Government of India
Ministry of new and renewable energy
Wind Power Division

Block-14, CGO Complex,
Lodi Road, New Delhi-110003
Dated: 15.01.2016

To
Head, State Nodal Departments/
State Nodal Agencies/
Other concerned implementing Agencies.

Sub: Additions/Modifications to the administrative sanction order no 23/1/2012-SWES dated 04.09.2013 for continuation of the scheme on "Small wind energy and hybrid systems (SWES)"- Reg.

Sir,

With reference to the above and In continuation to this Ministry administrative sanction order of even number dated 16.04.2010 and 24.09.2013 regarding continuation of Small wind energy and hybrid systems programme, the undersigned is directed to convey the following modifications/additions in the above scheme.

2. Installation of Aero-generators/SWES systems on telecom towers will also be eligible for CFA under community users. However "either 5 % to 10 % power of the installation capacity of the SWES system or one street light of 20 Watt capacity within 50 metre of distance from the telecom tower, for each 2kW capacity of SWES system has to be shared for community purpose". The manufacturers/Beneficiary will identify suitable telecom towers and prepare a bundled proposal having a minimum cumulative capacity of 20 kW and a minimum number of 10 systems and submit to MNRE through corresponding State Nodal Agencies or Bank/Financial Institutions.

3. The service providing company that owns the telecom tower will be the beneficiary.

4. Under the programme CFA will be provided for SWES systems which are having valid Type test reports from NIWE or any International recognised testing agencies duly accredited by their corresponding national accreditation bodies affiliated to International Laboratory Accreditation Cooperation (ILAC) under Mutual Recognition Arrangement (MRA). Accordingly an indicative list of recognised test agencies is placed at Annexure-I.

5. For availing MNRE subsidy manufacturers must establish manufacturing base in India as per ISO standard. In this regard, manufacturer has to produce the following valid documents. Subsequent to the submission of documents a team of officials from MNRE/NIWE will visit the manufacturing facility for its evaluation.

(i) Details of manufacturing facility
(ii) Certificate from District Industry Centre (If Any)

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(iii) Copy of the Pollution control board clearance (if any).
(iv) Copy of ISO Certificate
(iv) Copy of Certificate of Importer – Exporter Code (I E C) (if any)
(v) Copy of certificate of Incorporation & Memorandum of Association.

6. A maximum 500 kW capacity of a new type tested small wind turbine model will be initially supported without manufacturing base in India to enable the installation of new technologies and testing the performance of the products in Indian conditions.

7. All SWES systems installed in telecom towers has to be under warranty from the installer as per the scheme. Project monitoring report for telecom tower installations has to be prepared with specific information in regard to diesel savings.

8. All other terms and conditions are same as applicable under administrative sanction no. 23/1/2012-SWES dated 24.09.2013 and 23/1/2009-SWES dated 16.04.2010.

9. This issues with the concurrence of IFD vide diary no. FTS/ JS & FA dated 01.05.2015 and FTS/IFD dated 01.09.2015 and with approval of Secretary vide Dy. No FTS/Secretary dated 14.01.2016.

Yours faithfully

Prabir Kumar Dash 15.1.16
Scientist-C

Copy To:-

1. All States/UTs Implementing Departments/Agencies.
2. PS to Minister (NRE).
3. PSO to secretary
4. PS to JS (WE)/ JS & FA.
5. Special Secretary (T), DoT, Room No. : 318, Ministry of Communications and IT, Sanchar Bhawan 20, Ashoka Road, New Delhi 110001.
6. MD, IREDA/ Principal Adviser (CA & QoS), TRAI.
7. Director (GU).
8. Dy. CA, MNRE/PAO, MNRE /Cash Section/IFD.

15.1.16

Prabir Kumar Dash
Scientist-C

Annexure-I

1. **Indicative list of Test Agencies for Aero –generators in compliance with IEC 61400-2, IEC 61400-12-1, JSWRA 00001 (JAPAN), MCS-006 (UK) and AWEA 9.1-2009 (USA) standards.**

a. NIWE, India
b. DNV, Denmark
c. GL, Germany
d. TUV SUD, Germany
e. TUV NORD, Germany
f. DEWI OCC, Germany
g. Intertek, USA
h. NREL, USA
i. WINDTEST, DNV-GL
j. Under Writers Laboratory.

2. **Indicative list of test agencies for other components.**

a. For Photovoltaic Module:

Sr.No.	Laboratory / organisation	Description / Specifications
(i)	National Institute of Solar Energy (NISE)	Power rating up to 100 Wp as per IEC 61215
(ii)	Electronic Regional Test Laboratory [(ERTL-(E)]	Standard Test Condition (STC) test facility.
(iii)	Electronic Test and Development Centre (ETDC-B)	Power rating up to 100 Wp as per IEC 61215. Under ICEEE-CB, IEC 61701.
(iv)	UL(B)	Power rating up to 400 Wp as per IEC 61215, IEC 61730 Pt. II and IEC 61701.
(v)	TUV - Rhineland	Power rating up to 400 Wp as per IEC 61215 & 61730 Pt. II
(vi)	Electrical Research Development Association (ERDA), Vadodara	Power rating up to 3 Wp to 300 Wp as per IEC 61215 and IEC 61646 IS 14286

b. For Batteries:

Sl.No.	Laboratory / organisation	Description / Specifications
(i)	National Institute of Solar Energy (NISE)	MNRE approved
(ii)	Electronic Regional Test Laboratory [(ERTL-(E)]	Up to 1000 Ah
(iii)	Electronic Test and Development Centre (ETDC - B)	Up to 100 Ah
(iv)	Central Power Research Institute (CPRI-(B))	Up to 1000 Ah
(v)	Electrical Research Development Association (ERDA), Vadodara	Up to 1000 Ah

c. For Inverters:

Sl. No.	Laboratories / Organisations	Inverter > 100 W	
		Efficiency	**Environmental**
(i)	National Institute of Solar Energy (NISE)	Up to 10 KVA MNRE approved	Including IP MNRE approved
(ii)	Electronic Regional Test Laboratory [(ERTL-(E)]	MNRE approved	MNRE approved
(iii)	Electronic Test and Development Centre (ETDC - B)	Up to 3 KVA MNRE approved	MNRE approved
		Inverter > 100 W	
		Efficiency	**Environmental**
(iv)	Central Power Research Institute (CPRI-(B))	Up to 10 KVA MNRE approved.	NABL Accredited/ MNRE approved
(v)	Electronic Regional Test Laboratory [(ERTL-(N)]	Up to 5 KVA	NABL Accredited
(vi)	UL(B)	Up to 6 KVA NABL Accredited	NABL Accredited
(vii)	TUV - Rhineland	Up to 10 KVA NABL Accredited	NABL Accredited
(viii)	Inter Tek	Up to 5 KVA NABL Accredited	NABL Accredited
(xi)	Electrical Research Development Association (ERDA), Vadodara	Up to 100 KVA	Facility available for testing

d. For Charge controllers:

Sl.No.	Laboratories / Organisations	Charge Controller	
		Protection	**Environmental**
(i)	National Institute of Solar Energy (NISE)	MNRE approved	Including IP MNRE approved
(ii)	Electronic Regional Test Laboratory [(ERTL-(E)]	NABL Accredited MNRE approved	MNRE approved
(iii)	Electronic Test and Development Centre (ETDC - B)	MNRE approved	MNRE approved
(iv)	Central Power Research Institute [CPRI-(B)]	MNRE approved	NABL Accredited / MNRE approved
(v)	Electronic Regional Test Laboratory [(ERTL-(N)]	Up to 5 kW	NABL Accredited
(vi)	UL(B)	Up to 6 kW	NABL Accredited
(vii)	TUV - Rhineland	Up to 10 kW NABL Accredited	NABL Accredited
(viii)	Inter Tek	Up to 5 kW NABL Accredited	NABL Accredited
(ix)	Electrical Research	Up to 100 KVA	Facility available for

	Development Association (ERDA), Vadodara		testing

e. For Cables and Conductors:

Sl. No.	Laboratories / Organisations	Description
(i)	Electrical Research Development Association (ERDA), Vadodara	All size of PVC/Rubber cables and overhead conductors can be tested for their insulation and mechanical properties
(ii)	Central Power Research Institute (CPRI), Bangalore	All size of PVC/Rubber cables and overhead conductors can be tested for their insulation and mechanical properties