

**Electrification of rural villages in Odisha**

1806. SHRIMATI RENUBALA PRADHAN : Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the number of villages proposed to be electrified through renewable energy in Odisha during the current year;
- (b) the progress made so far;
- (c) the sources of the renewable energy identified for this purpose;
- (d) the potential of wind energy in the State and whether there is any plan to establish the wind energy plant in the State; and
- (e) if so, the details thereof?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH) : (a) During the current year, 937 number of villages out of sanctioned projects of 2010-11 and 2011-12 under the Remote Village Electrification (RVE) Programme have been proposed to be covered using renewable energy in Odisha. As per definition, they cannot however be declared as electrified.

(b) So far 376 numbers of villages have been covered using renewable energy during current year.

(c) In all the villages, solar energy has been identified as the source for the purpose of electrification.

(d) and (e) The potential of wind power in the State of Odisha has been estimated as 910 MW. There are six locations of the State viz. Chandipur, Chatrapur, Damanjodi, Gopalpur, Paradeep and Puri where wind resource assessment has been completed. Private sector has not taken interest in investing in the State of Odisha so far. However, the State Government has announced an attractive tariff and it is expected that the wind power projects may come in Odisha with private sector investment.

**Targets under JNNSM**

1807. SHRI NARESH AGRAWAL : Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) what is the target for first phase of the Jawaharlal Nehru National Solar Mission (JNNSM);

(b) the details of the subsidies and benefits being provided under the JNNSM for installation of new solar plants; and

(c) the details of capacity added till date, State-wise?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH) : (a) The target for the first phase of Jawaharlal Nehru National Solar Mission (JNNSM) is given in Statement-I (*See below*).

(b) The details of the subsidies and benefits being provided under the JNNSM for installation of solar plants are given in Statement-II (*See below*).

(c) The details of the capacity added till date, State-wise are given in Statement-III.

#### ***Statement-I***

*The details of target for the first phase of Jawaharlal Nehru National Solar Mission*

Application Segment	Target for Phase I (2010-13)
Grid Solar Power (large plants, rooftop & distribution grid plants)	1,100 MW
Off-grid Solar Applications	200 MW
Solar Thermal Collectors (SWHs, solar cooking, solar cooling, Industrial process heat applications, etc.)	7 million sq. meters

#### ***Statement-II***

*Subsidy and Other Benefits being provided for Grid & Off-grid Solar Power Plants*

- (i) Concessional Import duty excise duty exemption, accelerated depreciation and tax holiday.
- (ii) Generation based incentive and facility for bundled power for Grid connected Solar Power Projects through various interventions announced from time to time. Under the Rooftop and other Small Solar Power Generation Programme (RPSSGP) scheme which was initiated in June, 2010 a fixed Generation Based Incentive (GBI) is provided to the developers of the eligible projects through concerned State utilities at a rate equal to the difference between the CERC

tariff for 2010-11 (Rs. 17.91/unit) or SERC tariff, whichever is lower and a reference rate of Rs. 5.50/unit, with annual escalation @ 3%, for 25 years.

(iii) Following capital subsidy for Off-Grid Solar Applications is provided:

- 90% subsidy for Government projects in special category States and other difficult areas.
- 30% subsidy for Government Projects in General category States.

***Statement-III***

*Details of Capacity Added till Date, State-wise*

Sl. No.	State	Solar PV capacity actually commissioned (MW)
1	2	3
<b>(a) Rooftop PV and Small Solar Power Generation Programme (RPSSGP)</b>		
1.	Andhra Pradesh	9.75
2.	Chhattisgarh	4
3.	Haryana	7.8
4.	Maharashtra	5
5.	Odisha	7
6.	Punjab	6
7.	Rajasthan	11
8.	Tamil Nadu	5
9.	Uttarakhand	5
10.	Uttar Pradesh	7
11.	Jharkhand	16
12.	Madhya Pradesh	5.25
TOTAL		88.80

1	2	3
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**(b) Grid Solar PV Projects under Migration Scheme**

1.	Maharashtra	11
2.	Punjab	02
3.	Rajasthan	35
TOTAL		48

**(c) Grid Solar Thermal Projects under Migration Scheme**

1.	Rajasthan	2.5
TOTAL		2.5

**(d) Grid Solar PV Projects under Batch-I, Phase-I of JNNSM**

1.	Odisha	5
2.	Rajasthan	100
3.	Tamil Nadu	5
4.	Uttar Pradesh	5
5.	Maharashtra	0
6.	Karnataka	5
7.	Andhra Pradesh	10
TOTAL		130

**(e) State-wise Installation of SPV Systems during the last 3 years and 2012-13 (31.10.2012)**

Sl. No.	State/UT	Solar Photovoltaic Systems				Power Plants	
		Lanterns	Home Lights Nos.	Street Light Nos.	Pumps	Stand alone kWp	Grid Connected MW
1	2	3	4	5	6	7	8
1.	Andaman and Nicobar	0	63	32	0	0	0
2.	Andhra Pradesh	6208	5927	2540	0	759.935	21.65
3.	Arunachal Pradesh	496	10302	183	17	9.2	0
4.	Assam	0	0	0	0	802.5	0
5.	Bihar	0	3799	265	0	775.6	0
6.	Chandigarh	0	0	898	0	0	0
7.	Chhattisgarh	119	226	633	147	7132.72	4
8.	Delhi	54	0	0	1	52	2.5255
9.	Goa	181	71	312	0	0	0
10.	Gujarat	0	0	0	0	344.7	690
11.	Haryana	48893	26155	15493	0	391.35	7.8
12.	Himachal Pradesh	939	5746	5064	0	600	0
13.	Jammu and Kashmir	15813	26364	310	0	133.25	0
14.	Jharkhand	7000	3277	0	0	480.9	16
15.	Karnataka	0	19701	423	19	225	14
16.	Kerala	13186	25	645	0	13	0
17.	Lakshwadeep	5289	0	1725	0	15	0
18.	Madhya Pradesh	35	1025	3144	0	1060.6	7.25
19.	Maharashtra	60000	2617	4929	11	907.26	20

1	2	3	4	5	6	7	8
20.	Manipur	904	1015	558	28	188	0
21.	Meghalaya	0	0	0	0	0	0
22.	Mizoram	3777	3756	116	0	132	0
23.	Nagaland	1361	365	0	0	374	0
24.	Orissa	0	0	15	0	10	13
25.	Puducherry	0	0	0	0	0	0
26.	Punjab	0	0	1296	7	210	9
27.	Rajasthan	0	57109	220	1418	3987.2	201
28.	Sikkim	19550	5653	277	0	20.3	0
29.	Tamil Nadu	0	6309	3678	0	579.72	17
30.	Tripura	21922	29023	426	126	10.43	0
31.	Uttar Pradesh	10332	137561	113463	4	3341.26	12
32.	Uttarakhand	0	0	5679	0	100	5
33.	West Bengal	14000	45981	6475	0	154	2
34.	Others	0	15463	0	0	2830	0.81
TOTAL		230059	407533	168799	1778	25639.925	1043.0355

#### Financial closure for solar projects

1808. SHRI D.P. TRIPATHI : Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether it is a fact that half of the firms awarded solar power projects are yet to achieve financial closure;

(b) if so, what are the reasons for not achieving the targets;

(c) whether Government would provide them some more time for making arrangements; and

(d) if not, the reasons therefor?