

**Supply of solar lanterns in Uttarakhand**

1279. SHRI TARUN VIJAY: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether solar lanterns and power supply through solar energy were provided to the natural calamity hit region of Uttarakhand;
- (b) if so, the details thereof; and
- (c) whether there are more such schemes to help border areas and the hill people, to get benefit of solar energy and if so, the details thereof and the way schemes would be used?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI PIYUSH GOYAL): (a) and (b) Yes Sir, the Ministry had sanctioned ₹ 4.32 crores (100% Central Financial Assistance) for distribution of 20,000 solar lanterns in natural calamity hit regions of Uttarakhand in the financial year 2013-14.

(c) Under Off-grid and decentralized solar applications scheme of Jawaharlal Nehru National Solar Mission, the Ministry provides 30% capital subsidy which ranges from ₹ 27/- per watt peak to ₹ 135/- per watt peak for installation of solar PV systems and power plants.

In special category States and North Eastern States, Lakshadweep and A&N Islands including Uttarakhand, the Ministry provides 90% capital subsidy which ranges from ₹ 81/- watt peak to ₹ 405/- per watt peak for Government organizations (Not for commercial organizations and corporations) for installation of solar photovoltaic systems and power plants.

**New and renewable energy in Andhra Pradesh**

1280. DR. K.V.P. RAMACHANDRA RAO: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the potential for the new and renewable sources of energy in Andhra Pradesh;
- (b) the details of its present share in power generation / requirement of the State; and
- (c) the steps being taken to tap the full potential of the resources?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI PIYUSH GOYAL): (a) A potential of about 14,000 MW has been estimated in the state of Andhra Pradesh from various renewable energy sources such as wind, small hydro and biomass. Further, the state has a solar insolation of 5 to 6 kilowatt hour per square meter per day.

(b) The present share of renewable power is reported to be three percent of total power generation of the State.

(c) The Ministry of New and Renewable Energy is promoting renewable energy by providing various fiscal and financial incentives, such as capital/interest subsidy, accelerated depreciation, concessional excise and customs duties to encourage the Indian and foreign investors to invest in new and renewable energy sector. The other steps include preferential tariff for purchase of power generated from renewable sources, introduction of Renewable Energy Certificates and Renewable Purchase Obligation. Foreign Direct Investment (FDI) upto 100% is also permitted on the automatic route, in the renewable energy sector, subject to applicable laws/regulations, security and other conditions in the country including the state of Andhra Pradesh. Further, the state of Andhra Pradesh has announced a policy for promotion of solar power projects in the year 2012-13. State is also allotting revenue land to the wind power developers as per new 'Government Land Allotment Policy' issued by the state in 2012-13.

#### **Energy from wind and solar sources**

1281. SHRI C.P. NARAYANAN: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the quantum of energy generated, using wind and solar sources, at present;
- (b) the number of projects under construction in these two fields;
- (c) the estimate of solar energy purchased by families and concerns for captive consumption;
- (d) the details of Government projects to promote generation of wind and solar energy; and
- (e) the energy to be generated by wind and solar stations during this year?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI PIYUSH GOYAL) : (a) A wind power capacity of 21609 MW has been installed in the country so far. The total grid connected solar installed capacity is 2686 MW as on 30.06.2014.

(b) It is estimated that around 2500 MW wind power capacity will be installed in the country in current financial year. 134 solar projects of capacity 1411 MW are under construction.

(c) Off-grid solar PV installations are of aggregate capacity of 85.14 MWp which is estimated to generate around 136 MU.

(d) The Government is promoting wind power projects through private sector investment by providing fiscal and promotional incentives.