

**GOVERNMENT OF INDIA  
NEW AND RENEWABLE ENERGY  
LOK SABHA**

STARRED QUESTION NO:412

ANSWERED ON:23.04.2010

JAWAHARLAL NEHRU NATIONAL SOLAR MISSION

Tirkey Shri Manohar;Viswanathan Shri P.

**Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:**

- (a) the details of the targets set alongwith the funds made available for the solar energy generation in the country under the Jawaharlal Nehru National Solar Mission (JNNSM);
- (b) the details of financial assistance / subsidies / technical support proposed to be provided to the private players for the promotion and development of solar energy under the Mission;
- (c) whether the Solar Thermal Federation of India has expressed apprehensions about the achievement of targets set under the JNNSM;
- (d) if so, the details thereof and the reasons advanced by the Federation regarding the likely achievement of the targets;
- (e) whether the work on the Mission has been started or any pilot project has been commissioned under the Mission; and
- (f) if so, the details thereof?

**Answer**

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

(a),(b),(c),(d),(e)&(f): A Statement is laid on the Table of the House

Statement

Statement referred to in Parts (a),(b),(c),(d),(e)&(f) of the Lok Sabha Starred Question No. 412 for 23rd April, 2010

(a)&(b): The Jawaharlal Nehru National Solar Mission aims at creating capacity of 20,000 MW grid solar power and 2,000 MW off-grid solar power including 20 million solar lights, and installation of 20 million square meter solar thermal collector area by 2022. The Mission will be implemented in three phases. The Government has approved the target for the first phase of Mission (up to 2013) which includes setting up a capacity of 1,100 MW grid connected solar power plants including 100 MW capacity as roof top and small solar plants, and 200 MW equivalent capacity of off-grid solar Photovoltaic, solar thermal and hybrid applications. The financial requirement for the first phase of the Mission is estimated to be Rs. 4337 crores.

Under the Mission, the solar power plants connected to the grid (33 KV and above) are to be installed by project developers on build, own and operate basis. The NTPC Vidyut Vyapar Nigam (NVVN), the trading subsidiary of NTPC, has been designated as the nodal agency for purchase of 1,000 MW capacity of grid solar power (connected to 33 KV and above) from the project developers at a tariff fixed by Central Electricity Regulatory Commission (CERC) for purchase of solar power. NVVN will sign a power purchase agreement (PPA) with each project developer for a period of 25 years as fixed by CERC. For each MW capacity of solar power for which PPA is signed by NVVN, Ministry of Power will allocate to NVVN an equivalent MW capacity from the unallocated quota of NTPC stations. NVVN will bundle this with solar power and sell this power at a rate fixed as per CERC regulations. The utilities will be entitled to use solar power to meet their renewable power obligation (RPO).

Rooftop solar and other small grid connected (below 33 KV) solar power plants, will also be supported under Mission. The tariff for purchase of solar power from such solar plants will be fixed by the State Electricity Regulatory Commission and the Ministry would provide a generation based incentive for power fed to the grid. The off grid applications are proposed to be supported through a combination of subsidy of 30% and low interest bearing loans up to 5% annual interest rate. However, subsidy of 90% will be provided for special category States and in remote and difficult areas such as Lakshadweep, Andaman & Nicobar Islands, Ladakh region of J&K.

(c) & (d): As per reports, the Solar Thermal Federation of India (STFI) has indicated that achievement of about 18.7 million square meter of solar thermal collector area is possible as against the Mission target of 20 million square meter by 2022. The STFI has not made any statement for any other Mission targets. The STFI has not submitted any memorandum to the Ministry in this regard.

(e) & (f): The first phase of the Mission will be based on consolidation of on-going schemes on solar thermal and photovoltaic technologies. Some of the grid power projects, which were initiated before announcement of the Mission would be allowed to migrate

in the Mission subject to certain qualification criteria. In the last few months, a few grid connected solar power projects, with an aggregate capacity of 10 MWp have been set up in the country.