

**GOVERNMENT OF INDIA  
POWER  
LOK SABHA**

STARRED QUESTION NO:126  
ANSWERED ON:04.03.2011  
POWER GENERATION CAPACITY  
Lal Shri Kirodi ;M.Thambidurai Dr.

**Will the Minister of POWER be pleased to state:**

- (a) whether various power projects including hydro power projects are unable to generate power as per their installed capacity;
- (b) if so, the details thereof project/State wise along with the reasons therefor;
- (c) whether any Life Extension and Uprating of hydro power projects have been carried out for increasing capacity;
- (d) if so, the details of projects in which Life Extension and Uprating were carried out during the last three years and the current year, project and State-wise; and
- (e) the other steps being taken by the Government to increase the power generation capacity of such projects in the country?

**Answer**

MINISTER OF THE STATE IN THE MINISTRY OF POWER (SHRI SUSHILKUMAR SHINDE)

(a) to (e): A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 126 TO BE ANSWERED IN THE LOK SABHA ON 04.03.2011 REGARDING POWER GENERATION CAPACITY.

(a) & (b): The performance of power plants is dependent on a number of factors, like type / category of plant (hydro or thermal), design and age of the units, outages for repairs (forced) and planned maintenance, availability of water, quantity & quality of fuel, etc.

The Plant Load Factor (PLF) is an index of utilization of the installed capacity of thermal generating units. A statement indicating thermal power stations having PLF below the national average PLF during the period April-January, 2011 is enclosed at Annex.-I. The main reasons for low PLF include vintage and technology, long duration forced outages, supply of coal having quality at variance with the design coal, etc.

Availability of water for hydel power generation influences the performance of hydro power stations. Therefore, unlike PLF for thermal stations, availability of hydel power station is used to assess the performance of that station. List of hydro power stations which are not generating power as per their generation capacity is enclosed at Annex.-II. Reasons for their performance below their generating capacity include long duration forced outages, closure of the plant on account of taking up Renovation & Modernization, Life Extension and uprating works, problem of silt, etc.

(c) & (d): Out of 29 schemes taken up in the 11th Plan for renovation & modernization, life extension and up-rating, 14 schemes have been completed during the last three years and during the current year. Out of these 2 schemes, namely, Mettur Dam and Dehar Phase-B pertain to Life Extension and one of these, namely Mettur Dam is for Life Extension as well as uprating. List of 11th Plan completed and ongoing schemes are enclosed at Annex.-III & IV respectively.

(e): The other steps taken by the Government to bring improvement in the generation capacity of such projects include the following:

(i) Continuous interaction of CEA engineers with plant authorities, BHEL and other concerned agencies for solving bottlenecks in O&M activities.

(ii) Continuous interaction of CEA with better performing power utilities and the other power utilities for sharing better O&M practices.