

**GOVERNMENT OF INDIA  
POWER  
LOK SABHA**

UNSTARRED QUESTION NO:4581  
ANSWERED ON:07.09.2012  
MODERNISATION OF POWER PLANTS  
Mahto Shri Baidyanath Prasad;Ramkishun Shri

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

- (a) whether assistance of foreign countries which are self- reliant in power generation sector has been sought by the Government for modernization of power plants in the country;
- (b) if so, the details thereof and if not, the reasons therefor;
- (c) whether the turbines of power generation companies in the country are not built with new ultra modern sophisticated technology; and
- (d) if so, the details thereof?

**Answer**

THE MINISTER OF STATE IN THE MINISTRY OF POWER ( SHRI K.C. VENUGOPAL )

(a) & (b) :Details of the foreign financial assistance sought is annexed.

(c) & (d) :The designs of main plant equipment like boilers and turbine generators for thermal power stations have been progressively improved so as to improve efficiency and performance. Large size units based on super critical technology have been inducted with a view to increase fuel efficiency and reduce emission of greenhouse gases. Steps have also been taken to create requisite capacity in the country for manufacturing of supercritical boilers and turbine generators.

BHEL has entered into collaboration with M/s Siemens Germany for supercritical turbine generators. Besides, several new joint ventures have been formed to set up manufacturing facilities for supercritical turbine generators in the country as detailed below:-

Joint Venture    Capacity (MW/years)    Remarks

L&T-MHI        4000 MW        - Production commenced

Alstom -Bharat Forge 5000 MW        - All manufacturing facilities for manufacture  
of turbines to be completed by June 2013.

Toshiba- JSW     3000 MW        - All manufacturing facilities to be completed  
by April-2013

BGR Hitachi Turbine 5 Turbine        - All manufacturing facilities to be completed  
generator Private generators per        by July-2014.  
Ltd. annum (3000 MW)