

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:4419

ANSWERED ON:07.09.2012

CONTRACTS FOR POWER EQUIPMENT

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Will the Minister of POWER be pleased to state:

(a) whether contracts for supply of new power equipment for generation of more than 40,000 MW of upcoming power projects have been placed with Chinese companies;

(b) if so, the details of the criteria for procurement of Chinese equipment and the mechanism put in place to carry out the quality testing of these equipments;

(c) whether recent technical snags at two new power stations in Haryana equipped with Chinese equipment have forced the Haryana Power Generation Corporation (HPGC) to ship the malfunctioning components to China for repair;

(d) if so, the details thereof; and

(e) the corrective measures taken by the Government to ensure that future order for power equipment is awarded only after factoring life cycle of imported Chinese equipment?

Answer

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

(a) & (b) :As per information available in Central Electricity Authority (CEA), orders for main plant equipment for thermal projects totaling to 61946 MW have already been placed with Chinese companies. Out of this, a capacity of 20446 MW has been commissioned till 31.08.2012 and balance capacity of 41500 MW is under various stages of construction. As per the Electricity Act 2003, any generating company may establish thermal generating station. The procurement of equipment from various sources is done by the companies on the basis of their assessed techno-economics. However, CEA has notified Technical Standards for Construction of Electrical Plants and Electric Lines Regulations in August 2010 laying down salient construction and efficiency requirements for electric plants and electric lines.

(c) & (d) :As per the information available from Haryana Power Generation Corporation Ltd. (HPGCL), the following incidents of forced shutdown have occurred in Yamunanagar TPS (2x300 MW) and Hissar TPS (2x600 MW) with Chinese main plant equipment:-

i) Force shutdown of Unit-2 at Yamunanagar TPS due to damage to HIP turbine rotor. The work of repair has been entrusted to M/s. Siemens Turbocare Workshop in India (Vadodara).

ii) Failure of LP turbine blades in Yamunanagar TPS Unit-1. Reasons for damage to LP rotor and casings etc. were examined by the engineers of original equipment manufacturers – M/s. Shanghai Electric Corporation (SEC) China and the damaged components have been sent to SEC China for repairs.

iii) Unit-1 of Hissar TPS has been experiencing problems of high vibrations since commissioning in April 2010 and had to be taken under shutdown 2 to 3 times. The Unit was shutdown in April 2012 and damage to fixed and rotating blades of LP and IP turbine were observed. Repairs were undertaken by Reliance Infra/SEC, China – the EPC contractors for the project and the unit has been restored to service.

(e) :Life of equipment or design life generally refers to period of operation beyond which materials used may undergo major degradation. As such it may not be feasible to assess design life. However, utilities generally consider provenness of equipment in terms of satisfactory performance of equipment of comparable size and technology at other stations during the bidding process.