

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:1486
ANSWERED ON:04.03.2015
ELECTRICITY FROM NUCLEAR REACTORS
Patil Shri Kapil Moreshwar;Somaiya Dr. Kirit

Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) the status of installation of new nuclear power stations in the next five years in the country and funds allocated for the same;
- (b) the number of nuclear power stations installed with international cooperation including USA and also with indigenous reactors;
- (c) whether due to delay in land acquisition and other issues, the installation is getting delayed in concerned States and if so, the details thereof;
- (d) whether regular fuel supply has been ensured to run these reactors with their full capacity and if so, the details thereof; and
- (e) the target of electricity production in the next five years from the nuclear source?

Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE
(DR.JITENDRA SINGH):

- (a) In the next five years, a capacity of 4300 MW is expected to be added on completion of following reactors under construction:

Name of the Project Location Capacity Present Status Approved Financial Cost
(Rs. In crores)

Kudankulam Nuclear Power Project - 2 (KKNPP - 2) Kudankulam, Tamil Nadu 1000 Under Commissioning 17270
Prototype Fast Breeder Reactor (PFBR) Kalpakkam, Tamil Nadu 500 Under Advanced Stage of Commissioning 5677

Kakrapar Atomic Power Project Units 3&4 (KAPP 3&4) Kakrapar, Gujarat 2 X 700 Under Construction 11459

Rajasthan Atomic Power Project Units 7&8 (RAPP 7&8) Rawatbhata, Rajasthan 2 X 700 Under Construction 12320
For KKNPP 1&2, being revised to `22462 crore.

- (b) The present installed capacity of 21 reactors (5780 MW) comprise of five reactors set up with foreign cooperation and sixteen indigenous reactors. The reactors set up with foreign cooperation include Tarapur Atomic Power Station Units 1&2 (TAPS-1&2) (2X160 MW) set up on turnkey basis by USA at Tarapur, Maharashtra and Rajasthan Atomic Power Station Units 1&2 (RAPS 1&2) (100+200 MW) set up in cooperation with Canada at Rawatbhata Rajasthan in the 1960s and KKNPP-1 (1000 MW) at Kudankulam, Tamil Nadu set up in technical cooperation with Russian Federation.

- (c) Launch of nuclear power projects have been affected due to delays in land acquisition at greenfield sites, receipt of statutory clearances, and conclusion of international agreements in respect of projects planned with foreign technical cooperation, some of these being concurrent.

- (d) Yes, Sir. In respect of future projects to be set up with international cooperation, lifetime fuel supply guarantees are being incorporated in the commercial contracts. Availability of fuel for future indigenous projects will also be ensured either from domestic or international sources, as needed.

- (e) The targets of electricity generation are set five year plan period-wise and on annual basis. The target of electricity generation from nuclear power in the XII Five Year Plan period, i.e 2012-17 is 241748 Million Units. The target of electricity generation beyond 2017 has not been finalised. The target fixed for electricity generation for 2015-16 is 37307 million units (tentative, subject to confirmation by Department of Public Enterprises (DPE) during MoU meeting).