

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO.13
TO BE ANSWERED ON 22.11.2012

SAFETY AND CAPACITY OF NUCLEAR POWER PLANT

13. SHRI HUSAIN DALWAI :

Will the Prime Minister be pleased to state:

- (a) the total installed nuclear power generating capacity at present;
- (b) the number of new nuclear power reactors with capacity and location, under construction;
- (c) whether the highest levels of nuclear safety has been ensured; and
- (d) if so, details thereof?

ANSWER

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (SHRI V. NARAYANASAMY) :

- (a) The current installed nuclear power capacity in the country is 4780 MW comprising twenty nuclear power reactors.
- (b) There are seven nuclear power reactors, with a capacity of 5300 MW, under construction.

The details are as follows:-

Project	Location & State	Capacity (MW)
Kudankulam Nuclear Power Project Units 1&2	Kudankulam, Tamil Nadu	2X 1000
Prototype Fast Breeder Reactor	Kalpakkam, Tamil Nadu	500
Kakrapar Atomic Power Project Units 3&4	Kakrapar, Gujarat	2X700
Rajasthan Atomic Power Project Units 7&8	Rawatbhata, Rajasthan	2X700

- (c)&(d) Yes, Sir. Safety is accorded utmost importance in all phases of nuclear power plants from siting, design, construction, commissioning, operation & maintenance and eventual decommissioning. The standards of safety followed in India are consistent with the best practices followed in the world. The nuclear power plant sites are evaluated in accordance with the criteria as laid down in the regulatory codes. The nuclear power plants are designed using defence-in-depth approach based on well defined principles of redundancy and diversity. The construction is carried out to meet the highest safety and quality standards. The operation of nuclear power plants is carried out in accordance with laid down procedures approved by the regulatory authority by trained personnel duly licensed by the Atomic Energy Regulatory Board (AERB). There is a robust regulatory mechanism in place for enforcement of safety in all activities right from initial siting to decommissioning of nuclear power plants.