

**GOVERNMENT OF INDIA  
ATOMIC ENERGY  
LOK SABHA**

UNSTARRED QUESTION NO:632  
ANSWERED ON:26.11.2014  
HEAVY WATER REACTORS  
Puttaraju Shri C.S.

**Will the Minister of ATOMIC ENERGY be pleased to state:**

- (a) whether the Government proposes to build more heavy water reactors in the country;
- (b) if so, the States in which heavy water reactors are proposed to be set up;
- (c) whether any assessment has been made to know the impact of increased number of heavy water reactors, in relation to power generation; and
- (d) if so, the details thereof and if not, the reasons therefor?

**Answer**

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

(a) Yes, Sir.

(b) At present four Pressurised Heavy Water Reactors (PHWRs) are under construction, two each at Kakrapar in Gujarat (2 x 700 MW) and at Rawatbhata in Rajasthan (2 x 700 MW). Start of work on eight (8) 700 MW capacity indigenous PHWRs, on twin unit basis, is planned in the XII Five Year Plan. These are planned to be located in the states of Haryana, Madhya Pradesh, Rajasthan and Karnataka

(c) Yes Sir. The share of the indigenous heavy water reactors is expected to be nearly half of the total capacity envisaged by the end of the XIII/beginning of XIV Five Year Plan. More PHWRs are also envisaged in the future.

(d) The details are as given below:

Nuclear Power Capacity (MW)	Total	PHWR##
Installed	4780 + 1000#	4460
Under Commissioning	1000	-
Under Construction	3300	2800
Proposed XII Five Year Plan New starts	17400	5900#
Capacity envisaged by the end of XIII/ beginning of XIV Five Year Plan	27480	13160

#Kudankulam Unit-1 of capacity 1000 MW has been connected to the grid in October 2013 and is generating infirm power.

## Pressurised Heavy Water Reactors

#This includes 300 MW of Advanced Heavy Water Reactor.