

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 3044
TO BE ANSWERED ON 22.03.2018

SETTING UP OF HEAVY WATER REACTORS

3044. SHRI PARIMAL NATHWANI:

Will the PRIME MINISTER be pleased to state:

- (a) whether Government proposes to set up heavy water reactors in the country;
- (b) if so, the name of States where such reactors are proposed to be set up;
- (c) whether any assessment has been made regarding likely impact of the rising number of heavy water reactors on generation of electricity; and
- (d) if so, the details in this regard during the last three years?

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 indigenous Pressurised Heavy Water Reactors (PHWRs) are under construction in the states of Gujarat (KAPP 3&4 - 2X700 MW) & Rajasthan (RAPP 7&8 - 2X700 MW). The Government has accorded administrative approval and financial sanction for setting up two more PHWRs in the State of Haryana (GHAVP 1&2 - 2X700 MW). In addition, the Government has accorded administrative approval and financial sanction for setting up ten indigenous 700 MW PHWRs in fleet mode, to be set up in the States of Haryana, Rajasthan, Madhya Pradesh & Karnataka.
- (c) The present PHWR installed capacity is 4460 MW out of the total nuclear installed capacity of 6780 MW in the country. A PHWR installed capacity of 2800 MW is under construction and another 8400 MW has been accorded administrative approval and financial sanction. In addition, two Light Water Reactors (LWRs) of total 2000 MW capacity are under construction and two more of total 2000 MW capacity have been accorded administrative approval & financial sanction. This with PHWRs together would take total nuclear power installed capacity to 22480 MW by 2031 (including Prototype Fast Breeder Reactor [PFBR], 500 MW being implemented by BHAVINI). On their progressive completion, PHWRs along with LWRs are expected to contribute a significant portion of electricity to be generated from nuclear sources in the country in the near term.
- (d) The share of generation of electricity from PHWRs in the last three years is as follows:

(in million units)

Year	2014-15	2015-16	2016-17
Total Generation	37835	37456	40001
Generation from PHWRs	31491	33909	29278
