

## WRITTEN ANSWERS TO UNSTARRED QUESTIONS

GOVERNMENT OF INDIA  
DEPARTMENT OF ATOMIC ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 481**  
TO BE ANSWERED ON 07.12.2023

**Increase in Nuclear Power generation**

481 Shri R. Girirajan:

Will the PRIME MINISTER be pleased to state:

- (a) whether Government has planned for increasing another 2000 MW Nuclear Power generation from Tamil Nadu by 2025 and if so, the details thereof, and Nuclear Energy generated from Tamil Nadu in the last five years, year-wise;
- (b) whether Ministry has financial sanction for construction of ten indigenous 700 MW Pressurized Heavy Water Reactors (PHWRs) and approval for five new sites for setting up nuclear power plants in future;
- (c) If so, the details thereof; and
- (d) the current status of eleven nuclear reactors (8700 MW) under construction and the total amount spent so far on eleven nuclear powerplants?

**ANSWER**

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

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- (a) The installed nuclear power generation capacity in Tamil Nadu is set to increase by 4500 MW with the completion of KKNPP 3&4 (2X1000 MW), KKNPP 5&6 (2X1000 MW) at Kudankulam and PFBR (1X500 MW) at Kalpakkam during the period 2025-26 to 2027-28. The generation of electricity from nuclear power stations located in Tamil Nadu in the last five years, year wise was as follows:

Year	2018-19	2019-20	2020-21	2021-22	2022-23
Generation (Million Units)	7633	12987	13665	15625	16012

(b) & (c) Yes, Sir. The Government has accorded financial sanction of Rs. 1,05,000 crore for construction of ten indigenous Pressurized Heavy Water Reactors (PHWRs) of 700 MW each in fleet mode. The Government has also accorded in-principle approval to set up Nuclear Power Plants at five new sites. The details are as follows:

State	Location	Project	Capacity (MW)
Karnataka	Kaiga	Kaiga-5&6	2 X 700
Haryana	Gorakhpur	GHAVP- 3&4	2 X 700
Madhya Pradesh	Chutka	Chutka-1&2	2 X 700
Rajasthan	Mahi Banswara	Mahi Banswara-1&2	2 X 700
		Mahi Banswara-3&4	2 X 700

New sites accorded in-principle approval for setting up reactors in future are as follows:

Site	State	Capacity (MW)	In Cooperation with
Jaitapur	Maharashtra	6 X 1650	France
Kovvada	Andhra Pradesh	6 X 1208	United States of America
Chhaya Mithi Viridi	Gujarat	6 X 1000*	
Haripur	West Bengal	6 X 1000*	Russian Federation
Bhimpur	Madhya Pradesh	4 X 700	Indigenous PHWR

\*Nominal Capacity

(d) At present there are Ten reactors (8000 MW) at various stages of construction. The details are as follows:

Location	Project	Capacity (MW)	Physical Progress (as of October 2023) / Status	Implementation by
Kakrapar, Gujarat	KAPP-3* & 4	700	98.20%	NPCIL
Rawatbhata, Rajasthan	RAPP-7&8	2 X 700	89.82%	
Kudankulam, Tamil Nadu	KKNPP-3&4	2 X 1000	69.32%	
	KKNPP-5&6	2 X 1000	19.89%	

Gorakhpur, Haryana	GHAVP- 1&2	2 X 700	Casting of all foundation piles have been completed in both Nuclear Building (NB) areas and construction of various other plant buildings is in progress	
Kalpakkam, Tamil Nadu	PFBR	1x500	Advanced stage of integrated commissioning	BHAVINI

\*KAPP-3 has commenced commercial operation w.e.f. 30<sup>th</sup> June 2023

The total expenditure incurred on the above projects (including KAPP-3) upto October 2023 is Rs. 1,02,341 crore.

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