

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO-324
ANSWERED ON- 25/07/2024

NUCLEAR POWER PRODUCTION

324. SHRI ASHOKRAO SHANKARRAO CHAVAN

Will the PRIME MINISTER be pleased to state:-

- (a) whether Government aims to produce 1 lakh MW of nuclear power by the year 2047 from the current production of 8,000 MW, if so, the details thereof;
- (b) whether Government proposes to build 18 more nuclear power reactors with a cumulative capacity to generate 13,800 MW of electricity, if so, the details thereof;
- (c) the total number of nuclear power reactors presently operative in the country along with their total production capacity; and
- (d) whether the Nuclear Power Corporation of India Limited (NPCIL) has identified the location for construction of such nuclear power reactors, if so, the details thereof, location-wise?

ANSWER

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

- (a) The present installed nuclear power capacity is set to increase from 8180 MW to 22480 MW by 2031-32. While various studies on India's energy transition to Net Zero by 2070 have projected the need to have a national nuclear capacity of the order of 1 lakh MW by 2047, recommendation of those studies are being viewed for possible future adoption.
- (b) Yes. At present 21 reactors with a total capacity of 15300 MW are at various stages of implementation by NPCIL. The details are given in '(d)' below.
- (c) The present installed nuclear power capacity in the country is 8180 MW, comprising of 24 nuclear power reactors.

- (d) Yes. The details of nuclear power projects under implementation by NPCIL are given below:

State	Location	Project	Capacity (MW)
Projects Under Construction / Commissioning			
Rajasthan	Rawatbhata	RAPP-7&8	2 X 700
Tamil Nadu	Kudankulam	KKNPP-3&4	2 X 1000
		KKNPP-5&6	2 X 1000
	Kalpakkam	PFBR#	1 X 500
Haryana	Gorakhpur	GHAVP-1&2	2 X 700
Projects Under Pre-Project Activities			
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
Tamil Nadu	Kalpakkam	FBR-1&2#	2 X 500

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