GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO - 1924
ANSWERED ON 12/12/2024

PLANS FOR EXPANDING NUCLEAR POWER CAPACITY

1924. SHRI SANJAY RAUT

Will the PRIME MINISTER be pleased to state:-

(a) the details of plans for expanding nuclear power capacity in the coming decade, and the manner in which this expansion will be integrated into the country's broader energy mix;

(b) the number of States identified for the development of new nuclear power plants, and the timelines for these projects;

(c) whether Government is exploring the use of small modular reactors (SMRs) to provide electricity to remote and undeserved areas, if so, the timeline for implementation; and

(d) the manner in which Government plans to address the infrastructural challenges of connecting nuclear plants in rural areas to the national grid?

ANSWER

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

(a) Presently, a plan to increase the nuclear power capacity to 22480 MW by 2031-32 from the present capacity of 8180 MW is being implemented. Nuclear energy expansion is a part of the strategy to decarbonise country's energy sector to transition the country's energy mix towards Net Zero by 2070.

(b) 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
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

(c) & (d) It is envisaged that small modular reactor can be deployed in remote areas where the total energy demand can be met by small reactors. These plants can be deployed as captive power plants and hence connection to the main grid need not be criteria.

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