GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO-253
ANSWERED ON- 24/07/2024

SETTING UP OF NEW NUCLEAR POWER PLANTS/ REACTORS

253. SHRI DHAIRYASHEEL SAMBHAJIRAO MANE
SHRI SUDHEER GUPTA

Will the PRIME MINISTER be pleased to state:-

(a) whether the Government aims to produce 1 lakh MW of nuclear power by the year 2047 from current production of 8,000 MW;

(b) if so, the details thereof;

(c) whether the Government proposes to build 18 more nuclear power reactors with a cumulative capacity to generate 13,800 MC of electricity;

(d) if so, the details thereof;

(e) the total number of nuclear power reactors presently operational in the Country along with their total production capacity;

(f) whether the Nuclear Power Corporation of India Limited (NPCIL) has identified the location for construction of such nuclear power reactors;

(g) if so, the details thereof, location-wise;

(h) the total amount of funds likely to be incurred on the construction of these nuclear power reactors and the amount of funds sanctioned and released by the Government till now;

(i) whether the Government has signed any agreement or collaborated with other countries or organization/ firms with expertise in the sector to build these nuclear power plants in the country; and

(j) if so, the details thereof?

ANSWER

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

(a) & (b) 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.

(c) & (d) 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 (f) below.

(e) The present installed nuclear power capacity in the country is 8180 MW, comprising of 24 nuclear power reactors.

(f), (g) & (h) Yes. The details of nuclear power projects under implementation by NPCIL are given below:

State	Location	Project	Capacity (MW)	Sanctioned Cost, Rs Crore	Expenditure Incurred (as of May 2024), Rs Crore
Projects Under Construction / Commissioning					
Rajasthan	Rawatbhata	RAPP-7&8	2 X 700	12320*	18385
Tamil Nadu	Kudankulam	KKNPP-3&4	2 X 1000	39849**	43535
		KKNPP-5&6	2 X 1000	49621	15933
	Kalpakkam	PFBR#	1 X 500	7524 @	6750
Haryana	Gorakhpur	GHAVP-1&2	2 X 700	20594	6892
Projects Under Pre-Project Activities					
Karnataka	Kaiga	Kaiga-5&6	2 X 700	105000	1056
Haryana	Gorakhpur	GHAVP– 3&4	2 X 700		188
Madhya Pradesh	Chutka	Chutka-1&2	2 X 700		499
Rajasthan	Mahi Banswara	Mahi Banswara-1&2	2 X 700		668
		Mahi Banswara-3&4	2 X 700		
Tamil Nadu	Kalpakkam	FBR-1&2#	2 X 500	250	196.60

''under revision to Rs. 22924 crore ** under revision to Rs 68893 crore*

implemented by BHAVINI

@ In addition to Sanctioned cost of Rs. 6840 Crores, Atomic Energy Commission (AEC) approved Rs. 684 Crores for interim expenditure.

(i) & (j) Yes. The KKNPP-3&4 (2 x 1000 MW) and KKNPP-5&6 (2 x 1000 MW) are being set up in technical cooperation with the Russian Federation.

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