

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UN-STARRED QUESTION NO. 5176
ANSWERED ON 02/04/2025

STATUS OF INDIA'S NUCLEAR ENERGY PROJECTS

5176. SHRI K SUDHAKARAN

Will the PRIME MINISTER be pleased to state:-

- (a) the details and progress made in nuclear energy capacity expansion as outlined in recent policy initiatives;
- (b) the role of private sector participation in nuclear energy projects and its impact on investment in the atomic energy sector; and
- (c) the Government's strategy for ensuring the safety and security of India's nuclear power plants?

ANSWER

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

- (a) RAPS-7 (700 MW reactor) was connected to the grid on March 17, 2025 taking the total number of reactors in operation to 25 and total capacity to 8880 MW. In addition, 13600 MW capacity addition is under implementation, on progressive completion of which the capacity will reach 22480 MW by 2031-32.
- (b) The private sector is already participating in a big way in manufacturing of equipment, supply and execution of nuclear power projects. Further, private investment in nuclear power generation has been enabled within the existing legal framework for setting up Bharat Small Reactors (BSRs).
- (c) Highest priority is accorded to safety and security in all aspects of nuclear power in NPCIL. Adequate measures are taken to ensure safety of nuclear power plant, viz. siting, design, construction, commissioning, and operation. Nuclear power plants are designed adopting safety principles of redundancy, diversity and provided fail-safe design features following a defence-in-depth approach, in line with codes and guides of Atomic Energy Regulatory

Board (AERB). The operations are performed adopting well laid out procedures by highly qualified, trained and licensed personnel. There is a robust and independent regulatory mechanism in place and safety of nuclear power plants is continuously monitored and reviewed by the AERB.

In respect of security, all nuclear power plants are provided with CISF security cover and various other security provisions like Electronic Surveillance systems and cyber security are in place at all operating Nuclear Power Stations. These systems are subjected to periodic audits, reviews and necessary upgrades.
