

GOVERNMENT OF INDIA  
DEPARTMENT OF ATOMIC ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 1547**  
TO BE ANSWERED ON 28.07.2021

**NUCLEAR AND RADIATION SAFETY**

1547. SHRI E. T. MOHAMMED BASHEER:

Will the PRIME MINISTER be pleased to state:

the details of action plan chalked out/envisaged by the Government to ensure nuclear and radiation safety, nuclear security along with upgradation of safety features of old nuclear plants?

**ANSWER**

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

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Highest priority is accorded to safety in all aspects of nuclear power viz. siting, design, construction, commissioning and operation. Nuclear power plants are designed adopting safety principles of redundancy, diversity and provide fail-safe design features following a defence-in-depth approach. This ensures that there are multiple barriers between the source of radioactivity and the environment. The operations are performed adopting well laid out procedures by highly qualified, trained and licensed personnel. Appropriate Personal Protection Equipment and monitoring aids are provided to all the personnel working in the nuclear power plants.

A multi-tier safety mechanism within Nuclear Power Corporation of India Limited (NPCIL) by the regulatory authority (Atomic Energy Regulatory Board- AERB) is in place. Based on these reviews and operating experience feedback, necessary upgrades are carried out and the nuclear power plants are maintained at state-of-the-art in terms of safety.

Adequate measures are taken to ensure the security of nuclear power plants. All operating nuclear power plants in the country are under security cover of Central Industrial Security Force (CISF) and integrated security systems including Electronic Surveillance Systems and Access Control mechanisms are in place to deter security breach. These systems are subjected to periodic audits & reviews and necessary upgrades are carried out based on the reviews and various inputs received from the central and state security agencies.

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