

GOVERNMENT OF INDIA  
DEPARTMENT OF ATOMIC ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO-491**  
ANSWERED ON 24/07/2025

**SECURING NUCLEAR PLANTS FROM HEAVY RAINS AND FLOODS**

491. SHRI TEJVEER SINGH

Will the PRIME MINISTER be pleased to state:-

- (a) whether any nuclear plant in the country has faced any threat from floods or waterlogging during monsoon;
- (b) whether any emergency plan has been formulated in any nuclear plant for drainage, radiation control or shutdown;
- (c) whether monsoon disaster management plans have been updated as per International Atomic Energy Agency (IAEA) standards; and
- (d) the manner in which the location of new nuclear plants are being decided keeping in mind such natural risks in future?

**ANSWER**

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

- (a) No.
- (b) All nuclear power plants are sited and designed to ensure adequate drainage for the design basis flood at the site. Emergency plans for handling extreme natural events and radiation emergencies are in place at all nuclear power plant sites.
- (c) As already stated in 'b' above, emergency plans for handling extreme natural events including flooding due to rainfall (during monsoon) are in place at all sites. The disaster management plans, addressing the preparedness and response actions, are updated as per AERB standards to take care of emergency during monsoon.
- (d) At the site selection stage itself, flooding potential of the site due to factors like extreme rainfall, floods in rivers, upstream dam breaks, cyclones, storm surges, tsunamis etc., are evaluated. The grade level of the nuclear power plant is kept above the estimated maximum design basis flood level for the site. Further engineering measures are taken to ensure that the plant is kept safe in the event of an extreme natural event involving potential flooding/inundation.

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