

GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 1960**  
ANSWERED ON 12/12/2024

**CLOUD SEEDING**

**1960. SHRI S NIRANJAN REDDY:**

Will the Minister of **EARTH SCIENCES** be pleased to state:

- (a) the regulations governing cloud seeding and the details thereof;
- (b) whether Government plans to launch a policy for cloud seeding, if so, the details thereof, if not, the reasons therefor; and
- (c) whether Government has carried out any studies on the short term and long term impact of cloud seeding on the environment, if so, the details thereof?

**ANSWER**

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR  
MINISTRY OF SCIENCE AND TECHNOLOGY  
AND EARTH SCIENCES  
(DR. JITENDRA SINGH)

- (a)- (c) The present scientific knowledge suggests artificial rain-making techniques involving cloud seeding cannot be used as an alternative for bringing rain to rainfall deficit/drought areas. A scientific investigation was conducted over a rain-shadow region of the Western Ghats mountains in India by the Indian Institute of Tropical Meteorology (IITM), a program named “Cloud Aerosol Interaction and Precipitation Enhancement Experiment (CAIPEEX)”. The aerosol-cloud interaction and rain formation over the Indian region have been studied under the above-mentioned program. The scientific outcome and its results are presented in various scientific journals.

\*\*\*\*\*