

THE MINISTER OF STATE IN THE MINISTRY OF EARTH SCIENCE (SHRI ASHWANI KUMAR): (a) Yes Sir.

- (b) No backlog vacancies existed.
- (c) Not applicable.
- (d) Not applicable.

Rain enhancing techniques

2830. SHRI JESUDASU SEELAM: Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether steps have been taken by Government to study rain enhancement technique;
- (b) if so, the details thereof; and
- (c) the steps taken to promote the study of cloud seeding?

THE MINISTER OF STATE IN THE MINISTRY OF EARTH SCIENCE (SHRI ASHWANI KUMAR): (a) Yes Sir.

(b) The Indian Institute of Tropical Meteorology (IITM) located at Pune has been implementing a multi-year program called "Cloud Aerosol Interaction and Precipitation Enhancement Experiment (CAIPEEX)" to understand the physical and dynamical processes in the cloud environment and surrounding regions which lead to the formation of rainfall through employing aircraft based targeted experimental cloud seeding since 2009.

(c) During Phase I (May to September 2009) of the program, aerosol and cloud microphysics observations were collected over different meteorological regimes and at different locations over India. CAIPEEX Phase II, carried out during 2010 and 2011, explored the sensitivities of clouds to varied aerosols loading and types, and the thermodynamic environment in which they develop.

It is becoming apparent that aerosol loading may not be the only factor that determines the cloud microphysical properties of clouds. Other factors such as the thermodynamic properties in the rain shadow region when compared to coastal areas may play a more important role in the differences observed in cloud microphysics and precipitation. Phase II also produced measurements

of cloud microphysical properties needed to study the physical plausibility that hygroscopic cloud seeding could have produced a change in a "seeded" cloud segment when compared to a "non-seeded" cloud segment. Sufficient data was collected by the scientists and efforts are on to document the. changing environmental conditions that determine the suitability of clouds for cloud seeding and to determine the optimal methods to target the potential clouds. Efforts during the observational campaign are directed to measure effects of cloud seeding on cloud microstructure as well through employing aircraft and ground radar .

Live telecast of assembly proceedings of Gujarat

2831. SHRI DILIPBHAI PANDYA: Will the Minister of INFORMATION AND BROADCASTING be pleased to state:

- (a) whether it is a fact that the Ministry has received detailed proposal from the Speaker of Gujarat State Assembly in regard to live telecast of State Assembly proceedings on DD Ahmedabad and Rajkot on the pattern of the other States;
- (b) if so, the details thereof and the present status of that proposal;
- (c) whether that proposal has been considered by the Ministry, so far;
- (d) if so, the details thereof and if not, the reasons therefor; and
- (e) by when the said proposal would be considered?

THE MINISTER OF STATE IN THE MINISTRY OF INFORMATION AND BROADCASTING (SHRI CHOUDHARY MOHAN JATUA): (a) to (e) Prasar Bharati has informed that a proposal from Speaker of Gujarat State Assembly for live telecast of State Assembly proceedings on Doordarshan was received by Doordarshan Kendra, Ahmedabad in 2007. The proposal could not be approved as per the existing policy. However, Doordarshan Kendra, Ahmedabad is telecasting sponsored programme of the question hour proceedings produced by the Public Relation Department of Gujarat Government from time to time.

Vacancies in AIR and Doordarshan in NER and J&K

2832. SHRI BIRENDRA PRASAD BAISHYA: Will the Minister of INFORMATION AND BROADCASTING be pleased to state:

- (a) whether it is a fact that a large number of posts are lying vacant in AIR and Doordarshan