

Shifting of India and Nepal After earthquake

2731. SHRI DEVENDER GOUD T.: Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether it is a fact that due to recent earthquake in Nepal, India has moved 10 feet towards north;
- (b) whether it is also a fact that Nepal has moved 3 meters Southwards; and
- (c) what would be the implications of these movements?

THE MINISTER OF STATE IN THE MINISTRY OF EARTH SCIENCES (SHRI Y. S. CHOWDARY): (a) No Sir. India did not move ten feet towards north due to recent Nepal earthquake. However, GPS measurements in parts of northern Bihar, a region close to Nepal earthquake source, showed that this region of Bihar has moved by a few millimeter towards north.

(b) It has been reported that Kathmandu has moved southwards by about two meters.

(c) As a part of national tectonic process, the observed movement represent the strain energy released during this earthquake, causing damage in the source and adjoining areas.

Research in cloud seeding

2732. SARDAR SUKHDEV SINGH DHINDSA: Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether Government has undertaken some research in the in the areas and Cloud seeding to improve rains in rain deficit Areas;
- (b) whether Government has made an analysis of models currently being used by the IMD for predicting monsoons in India;
- (c) the variation of rainfall during Monsoon for the last 20 years i.e. actual rain fall, *versus*, predicted rain fall as per IMD; and
- (d) whether Government has taken any analysis related to rainfall prediction and actual rain fall at Micro level, say District, Blocks etc. and not a micro level extending India as one unit?

THE MINISTER OF STATE IN THE MINISTRY OF EARTH SCIENCES (SHRI Y. S. CHOWDARY): (a) Yes Sir. As things stand today, artificial rain making techniques