

**GOVERNMENT OF INDIA
EARTH SCIENCES
LOK SABHA**

UNSTARRED QUESTION NO:4613
ANSWERED ON:22.04.2015
UNSEASONAL RAINS
Kamaraaj Dr. K.

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the meteorological department is able to predict unseasonal rains and if so, the details thereof; and
- (b) the accuracy rate (Positive Prediction) achieved by the meteorological department in making predictions?

Answer

MINISTER OF STATE FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTRY OF EARTH SCIENCES (SHRI Y.S. CHOWDARY)

(a) Yes Madam. During the past couple of years, Earth System Science Organization-India Meteorological Department (ESSO-IMD) has improved the forecasting skill due to advances made in the numerical weather prediction, improved observations and data assimilation and augmentation of high performance computing infrastructures. Accordingly, ESSO-IMD has been able to capture correctly the occurrence of unseasonal rain with hailstorms activity and other such severe weather phenomena in the recent past with considerable forecast skill. Manifestation of such quantitative improvement may be seen with accurate prediction of recent Hailstorm events in Maharashtra, Karnataka and Madhya Pradesh. All recent rain events have also been forecasted successfully.

(b) The lead time for various systems have been given 4-5 days in advance. The accuracy in short range forecasting of spatial distribution of rainfall during the winter and pre monsoon so far are 84% and 72%, respectively, during 2015.