

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION No. 565
TO BE ANSWERED ON WEDNESDAY, FEBRUARY 6, 2019**

PREDICTION OF LOCALIZED EXTREME WEATHER CONDITION

565 SHRI ANURAG SINGH THAKUR:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the Government is undertaking any steps to improve prediction of localized high impact extreme weather systems, if so, the details thereof;**
- (b) whether there is any collaboration undertaken on this front to improve the understanding of the warning systems in the country; and**
- (c) if so, the details thereof?**

ANSWER

**MINISTER FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(Dr. HARSH VARDHAN)**

- (a) to (c) Yes Madam. With the advancement of prediction models which have resulted in the enhancement of accuracy of short (upto three days) and medium range (upto seven days) forecast, substantial improvement in the prediction of localized severe weather phenomena has been accomplished. Development of suitable data assimilation techniques for ingesting data from the satellites and Doppler Weather Radars and further improvement in model dynamics & physics have contributed to the accuracy enhancements. From June 2018, probabilistic severe weather & heavy rainfall predictions and district level colour coding services have been launched. Simultaneous efforts are made to enhance the research and development activities in order to improve the lead time prediction of localized severe weather phenomena like thunderstorm. MoES has initiated a specific call for research projects under its program 'Thunderstorm & Meso-scale Processes Prediction' so as to involve academic and research institutes of India and has received 23 proposals, which are being reviewed for funding.**
