

**GOVERNMENT OF INDIA
EARTH SCIENCES
LOK SABHA**

UNSTARRED QUESTION NO:1626
ANSWERED ON:07.03.2013
INSTALLATION OF WEATHER RADAR
Pradhan Shri Nityananda

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether it is proposed to install C-band weather radar at Mausam Bhavan, New Delhi;
- (b) if so, the details thereof;
- (c) the extent to which it would improve weather forecast and help the farmers and others in the country;
- (d) whether such radars are also proposed to be installed in other parts of the country; and
- (e) if so, the details thereof?

Answer

MINISTER FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTRY OF EARTH SCIENCES (SHRI S. JAIPAL REDDY)

- (a) No Madam as C-Band Doppler Weather Radar (DWTR) has been commissioned on 19M December, 2011 and is functional since then.
- (b) Does not arise.
- (c) Government of India through Earth System Science Organization (ESSO)-IMD has operationalized its location specific nowcasting weather service across the country including the web based inputs. Under this service activity, that covers 117 urban centres currently on experimental basis, nowcast of severe weather (Thunderstorms; heavy rainfall from lows/depressions over the land) in 3-6h range is issued. Origin, development/movement of severe weather phenomena are regularly monitored through DWRS and with all available other observing systems (Automatic Weather Stations- AWSs; Automatic Rain Gauges-ARGs; Automatic Weather Observing Systems-AWOS; satellite derived wind vectors, temperature, moisture fields etc.) are assimilated to generate predictions (prepared both in text as well as in graphical form) on 3h time range. Web GIS rendering of the nowcast products is implemented for enhanced spatial representation of the severe weather intensities associated with warnings. For the farming community, however, district scale integrated agro-meteorological advisory service that disseminates crop-specific advisories through SMS, IVRS, vernacular visual/print media channels is already functional with twice weekly mode of advisory dissemination mechanism.
- (d) Yes Madam.
- (e) As of now, 17 S/C-Band DWTRs are commissioned at Chennai, Sriharikota, Machilipatram, Visakhapatnam, Kolkata, Mumbai, Bhuj, Hyderabad, Nagpur, Patiaia, Delhi Palam, Lucknow, Patna. Mohanbari, Agartala, Delhi Lodi Road and Jaipur. DWP . at Bhopal is under commissioning. In a phased manner, the expansion of the DWR network to cover the whole country needs to be taken up as sustenance of such country wide networks demands augmentation of massive infrastructure (land/office/line of sight elevated tower), support service systems (power/cooling/ water/spares & services/ operating frequency clearance/security clearance, manpower etc.) across various states/UTs.