

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION NO. 1157
ANSWERED ON 01/08/2024**

DOPPLER WEATHER RADAR SYSTEMS IN HIMACHAL PRADESH

1157. DR. SIKANDER KUMAR:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the details of the Doppler Weather Radar (DWR) systems installed in State of Himachal Pradesh at present along with the timelines drawn for commissioning of the latest radars;
- (b) the funds spent on installation and for the smooth functioning of DWRs in the State; and
- (c) the measures adopted by Government to ensure proper functioning of weather observing systems for accurate forecasts in the State?

ANSWER

**THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR
MINISTRY OF SCIENCE AND TECHNOLOGY
AND EARTH SCIENCES
(DR. JITENDRA SINGH)**

- (a) Three X-Band Doppler Weather Radars (DWRs) have been installed and commissioned at Kufri (Shimla), Murari Devi (Mandi), and Jot (Chamba) in the State of Himachal Pradesh. One more X-Band DWR will be installed in the Lahaul & Spiti District, Himachal Pradesh by December 2025.
- (b) Rs. 13.87 crore.
- (c) The weather predictions are made using data from multiple observational systems, which include surface observations, upper air observations, DWRs observations, and national and international satellite-based observations. The data from these observational systems are assimilated into various state-of-the-art regional and global dynamical models to generate weather forecasts at different spatial and temporal scales. The ministry is continuously endeavoring to augment the observational and R&D infrastructure to achieve better accuracy in weather forecasting across the country.
