

**GOVERNMENT OF INDIA  
CIVIL AVIATION  
LOK SABHA**

UNSTARRED QUESTION NO:2436  
ANSWERED ON:11.03.2010  
INSTALLATION OF DOPPLER RADAR AT IGIA  
Majhi Shri Pradeep Kumar

**Will the Minister of CIVIL AVIATION be pleased to state:**

- (a) whether the Government proposes to install Doppler radar for accurate prediction of weather at the IGI airport, New Delhi;
- (b) if so, the details in this regard;
- (c) the salient features of the Doppler radar system; and
- (d) the details of the expenditure likely to be incurred in setting up of said system?

**Answer**

MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF CIVIL AVIATION (SHRI PRAFUL PATEL)

(a) & (b): Yes, Madam. Doppler Weather Radar (DWR) will be installed at IGI airport, New Delhi by the end of April, 2010.

(c): DWR is operated in 24 x 7 mode and provides velocity and spectrum width data, in addition to reflectivity obtained from conventional radars. Radial velocity data of weather systems provides better insight into the dynamics of weather systems. Spectrum width data gives information on turbulence and wind shear in the atmosphere. It gives better quantitative rainfall estimates by suppressing ground clutter and anomalous propagation. It is able to produce wind field patterns associated with cyclones and make it possible to better analyse the internal structure of storms. DWR data is ingested in Numerical Weather Prediction (NWP) models for weather predictions.

(d): The cost of equipment is approximately Rs. 10 crores with an additional expenditure of Rs. 6 crores towards development of infrastructure for setting up of the said system.