

**GOVERNMENT OF INDIA  
EARTH SCIENCES  
LOK SABHA**

UNSTARRED QUESTION NO:2330  
ANSWERED ON:11.03.2015  
ATMOSPHERIC OBSERVATION SYSTEM  
Jayavardhan Dr. Jayakumar

**Will the Minister of EARTH SCIENCES be pleased to state:**

- (a) the details of atmospheric observation system prevailing in the country;
- (b) whether the Government proposes to set up a high atmospheric observation system and an institute for monsoon mission in Chennai;
- (c) if so, the details thereof; and
- (d) the details of funds allocated by the Government for National Monsoon Mission and research and development for atmospheric observation system during the last three years and the current year?

**Answer**

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

(a) Two satellites namely INSAT-3D and Kalpana are continuously providing various monitoring and data generation services over land and ocean. Details of terrestrial and ocean atmospheric observing system networks operating in the country are given below.

| Observation Type                       | Number of observatories/Atmospheric Observations Systems |
|--|--|
| Automatic Weather Station (AWS)        | 675  |
| Automatic Rain Gauge (ARG)             | 1272   |
| Surface Observatories                  | 559  |
| Agrometeorological Observatories       | 219  |
| Air Quality Monitoring System-         | 10   |
| Background Pollution Observatories     |  |
| Urban Climatological Units             | 2  |
| Urban Climatological Observatories     | 13   |
| GPS Sonde                              | 16   |
| Doppler Weather Radar (DWR)            | 16   |
| Aviation Current Weather Observatories | 71   |
| High Wind Speed Recording Stations     | 13   |
| Hydrometeorological Observatories      | 701  |
| Non-Departmental Raingauge Stations    | 8579   |
| Drifting Buoys                         | 10   |
| Moored Buoys                           | 19   |

Based on scientific assessment of the needs for further augmentation of observing system network, comprising Doppler Weather Radars, rain radars, Automatic Weather Stations (AWSs), Automatic Rain Gauges (ARGs), Snow Gauges etc. expansion shall be formulated from time to time.

(b) No Madam.

(c) Does not arise.

(d) An allocation of Rs. 400.0 crores is made for the monsoon mission. Details of funds allocated by the Government for atmospheric observation system are given below ;

| Rupees in Crore | Year    | Funds allocated |
|-----------------|---------|-----------------|
|                 | 2012-13 | 142.00          |
|                 | 2013-14 | 129.00          |
|                 | 2014-15 | 87.00           |