

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION No. 1316
TO BE ANSWERED ON MONDAY, July 30, 2018**

INSTALLATION OF DOPPLER RADARS IN UTTARAKHAND

1316. SHRI MAJEED MEMON:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether it is a fact that even after five years of flash floods of 2013 in Uttarakhand, the Doppler radars are yet to be installed;**
- (b) if so, reasons for delay;**
- (c) whether it is also a fact that the State Government wrote to India Meteorological Department (IMD) and the Ministry of Earth Sciences in 2015, seeking permission to procure Doppler radars under World Bank funded Uttarakhand Disaster Recovery Project (UDRP); and**
- (d) the details of the Automatic Weather Stations (AWS) and telemetric rain gauges to be installed in all 95 blocks in the state?**

ANSWER

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

- (a) Yes Sir.**
- (b) Procurement of three X-Band DWRs in Uttarakhand State is under process.**
- (c) Yes Sir. The State Government has written to India Meteorological Department in May, 2014 regarding procurement of Doppler Radars, Early Warning System, Automatic Weather Stations/Rain Gauges (AWS/ARG) etc. under World Bank funded Uttarakhand Disaster Recovery Project (UDRP). An MOU was signed in September, 2017 between Uttarakhand State Disaster Management Authority, Govt. of Uttarakhand and India Meteorological Department, Govt. of India for assisting the State Government in establishing AWS/ARG network.**
- (d) The detail of AWS and ARG of the State is attached in the Annexure for reference.**

AUTOMATIC WEATHER STATIONS

S.No	STATE	DISTRICT	STATION	LAT.	LONG.
1	UTTARAKHAND	ALMORA	MATELA	29.62	79.62
2	UTTARAKHAND	BAGESHWAR	KAPKOTE	29.9333	79.9
3	UTTARAKHAND	CHAMOLI	CHAMOLI	30.4	79.3167
4	UTTARAKHAND	CHAMOLI	GAIRSAIN	30.0514	79.2883
5	UTTARAKHAND	CHAMOLI	JOSHIMATH	30.55	79.5667
6	UTTARAKHAND	CHAMPAWAT	CHAMPAWAT	29.34	80.09
7	UTTARAKHAND	DEHRADUN	DEHRADUN	30.32	78.05
8	UTTARAKHAND	DEHRADUN	JOLLYGRANT	30.19	78.18
9	UTTARAKHAND	DEHRADUN	MASSOURI	30.48	78.05
10	UTTARAKHAND	DEHRADUN	TIUNI	30.9331	77.8453
11	UTTARAKHAND	HARIDWAR	DHANAURI	29.93	77.97
12	UTTARAKHAND	HARIDWAR	ROORKEE	29.84	77.92
13	UTTARAKHAND	NAINITAL	MUKTESHWAR	29.4667	79.65
14	UTTARAKHAND	NAINITAL	NAINITAL	29.36	79.46
15	UTTARAKHAND	PAURI_GARHWAL	BHARSAR	30.05	79
16	UTTARAKHAND	PITHORAGARH	MUNSYARI	30.0667	80.2369
17	UTTARAKHAND	PITHORAGARH	PITHORAGARH	29.57	80.23
18	UTTARAKHAND	RUDRAPRAYAG	RUDRA_PRAYAG	30.3167	78.9667
19	UTTARAKHAND	TEHRI_GARHWAL	GHANSALI	30.4333	78.6583
20	UTTARAKHAND	TEHRI_GARHWAL	RANI_CHAWRI	30.2	78.5167
21	UTTARAKHAND	UDHAM_SINGH_NAGAR	JASPUR	29.27	78.83
22	UTTARAKHAND	UDHAM_SINGH_NAGAR	PANTNAGAR	29.02	79.48
23	UTTARAKHAND	UDHAM_SINGH_NAGAR	RUDRAPUR	28.98	79.4
24	UTTARAKHAND	UTTARKASHI	PUROLA	30.86	78
25	UTTARAKHAND	UTTARKASHI	UTTAR_KASHI	30.72	78.43

AUTOMATIC RAIN GAUGES

S.N O	STATE	DISTRICT	STATION	LAT.	LONG.
1	UTTARAKHAND	ALMORA	RANIKHET	29.64	79.42
2	UTTARAKHAND	ALMORA	SOMESHWAR	29.78	79.61
3	UTTARAKHAND	BAGESHWAR	BAGESHWAR	29.8308	79.77
4	UTTARAKHAND	BAGESHWAR	GARUR	29.9	79.62
5	UTTARAKHAND	CHAMOLI	KARNPRAYAG	30.25	79.21
6	UTTARAKHAND	CHAMOLI	THARALI	30.06	79.51
7	UTTARAKHAND	CHAMPAWAT	LOHAGHAT	29.4	80.09
8	UTTARAKHAND	CHAMPAWAT	PATI	29.4	79.93
9	UTTARAKHAND	DEHRADUN	KALSI	30.53	77.84
10	UTTARAKHAND	DEHRADUN	RISHIKESH	30.11	78.28
11	UTTARAKHAND	HARIDWAR	HARIDWAR	29.92	78.12
12	UTTARAKHAND	NAINITAL	KASYA	29.48	79.47
13	UTTARAKHAND	NAINITAL	RAMNAGAR	29.39	79.11
14	UTTARAKHAND	PAURI_GARHWAL	KOTDWAR	29.74	78.52
15	UTTARAKHAND	PAURI_GARHWAL	SRINAGAR_ARG	30.22	78.77
16	UTTARAKHAND	PITHORAGARH	GANGOLIHAT	29.65	80.04
17	UTTARAKHAND	RUDRAPRAYAG	JAKHOLI	30.39	78.89
18	UTTARAKHAND	RUDRAPRAYAG	UKHIMATH	30.5119	79.0939
19	UTTARAKHAND	TEHRI_GARHWAL	DEVPRAYAG	30.14	78.6
20	UTTARAKHAND	UDHAM_SINGH_N AGAR	KASHIPUR	29.21	78.95
21	UTTARAKHAND	UDHAM_SINGH_N AGAR	SITARGANJ	28.9258	79.41