

GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION NO. - 182
ANSWERED ON – 03/02/2022

AUTOMATED WEATHER STATIONS IN UTTAR PRADESH

182. SHRI SYED ZAFAR ISLAM :

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the salient features of the Automated Weather Stations (AWSs) being installed by the India Meteorological Department (IMD) in the country;
- (b) the details of functional AWSs in the State of Uttar Pradesh, location-wise;
- (c) whether it is a fact that Government has recently received proposal from the State Government of Uttar Pradesh seeking the installation of AWSs to predict weather conditions in the State; and
- (d) if so, the details thereof, and the response of Government thereto?

ANSWER

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

- (a) The salient features of the Automated Weather Stations (AWSs) are given below:
 - i. An AWS consist of a weather-proof enclosure containing the data logger, rechargeable battery, telemetry (GPRS communication/satellite communication) and the meteorological sensors (air temperature, air pressure, wind speed and direction, humidity, rainfall) with an attached solar panel.
 - ii. India Meteorological Department (IMD) established AWS in a fenced piece of land and measuring minimum area (10 m X 10 m) with good exposure conditions and it is mounted upon a 10 m mast.
 - iii. AWS stations can automatically record temperature, relative humidity, station level pressure, wind speed and direction and rainfall at an interval of 15 minutes and transmit them to IMD server.
 - iv. Some AWS installed in Krishi Vigyan Kendra (KVK) are equipped with additional sensors for soil moisture, soil temperature and solar radiation.

- v. Automatic Weather stations in IMD network are with State of art technology with 32 bit microprocessor and high accuracy meteorological sensors as per World Meteorological Organization Guidelines.
 - vi. In addition to the availability of real time data in every 15 minutes, there is also possibility to get 1 minute data during severe weather conditions.
 - vii. Facility to configure data transfer from field site as per user-defined time intervals.
 - viii. Real time weather data are made available at the website for general public.
- (b) The details of Functional AWS in Uttar Pradesh are given in Annexure –I.
- (c) No such proposal has been received by IMD from the State Government of Uttar Pradesh seeking the installation of AWSs to predict weather conditions in the State.
- (d) Does not arise.

Annexure –I

Functional AWS in the State of Uttar Pradesh as on 23.01.2022				
S NO.	STATE	DISTRICT	STATION	STATUS
1	UTTAR_PRADESH	AGRA	AGRA	FUNCTIONAL
2	UTTAR_PRADESH	ALIGARH	ALIGARH	FUNCTIONAL
3	UTTAR_PRADESH	BADAUN	BADAUN	FUNCTIONAL
4	UTTAR_PRADESH	BAGHPAT	BAGHPAT_KVK	FUNCTIONAL
5	UTTAR_PRADESH	BAHRAICH	BHARAICH_AMFU	FUNCTIONAL
6	UTTAR_PRADESH	BALLIA	BALLIA	FUNCTIONAL
7	UTTAR_PRADESH	BULANDSHAHAR	BULANDSHAHAR	FUNCTIONAL
8	UTTAR_PRADESH	CHITRAKOOT	CHITRAKOOT	FUNCTIONAL
9	UTTAR_PRADESH	FATEHPUR	FATEHPUR_KVK	FUNCTIONAL
10	UTTAR_PRADESH	GAUTAM_BUDDHA_NAGAR	NCMRWF	FUNCTIONAL
11	UTTAR_PRADESH	GONDA	GONDA	FUNCTIONAL
12	UTTAR_PRADESH	GORAKHPUR	GORAKHPUR	FUNCTIONAL
13	UTTAR_PRADESH	GORAKHPUR	GORAKHPUR_KVK	FUNCTIONAL
14	UTTAR_PRADESH	HATHRAS	HATHRAS	FUNCTIONAL
15	UTTAR_PRADESH	JAUNPUR	JAUNPUR_KVK	FUNCTIONAL
16	UTTAR_PRADESH	JHANSI	BHARARI_AMFU	FUNCTIONAL
17	UTTAR_PRADESH	JHANSI	JHANSI	FUNCTIONAL
18	UTTAR_PRADESH	KANPUR_NAGAR	KANPUR	FUNCTIONAL
19	UTTAR_PRADESH	KAUSHAMBI	KOKHRAJ_AMFU	FUNCTIONAL
20	UTTAR_PRADESH	KUSHINAGAR	KHUSINAGAR	FUNCTIONAL
21	UTTAR_PRADESH	LALITPUR	LALITPUR	FUNCTIONAL
22	UTTAR_PRADESH	LUCKNOW	LUCKNOW	FUNCTIONAL
23	UTTAR_PRADESH	MAHARAJGANJ	MAHRAJGANJ	FUNCTIONAL
24	UTTAR_PRADESH	MAINPURI	MAINPURI	FUNCTIONAL
25	UTTAR_PRADESH	MEERUT	MEERUT	FUNCTIONAL
26	UTTAR_PRADESH	PILIBHIT	PILIBHIT	FUNCTIONAL
27	UTTAR_PRADESH	PRAYAGRAJ	PRAYAGRAJ_AMFU	FUNCTIONAL
28	UTTAR_PRADESH	RAEBARELI	FURSATGANJ	FUNCTIONAL
29	UTTAR_PRADESH	SANT_KABIR_NAGAR	KHALILABAD	FUNCTIONAL
30	UTTAR_PRADESH	SHAHJAHANPUR	NIYAMATPUR_KVK	FUNCTIONAL
31	UTTAR_PRADESH	SIDDHARTH_NAGAR	MOHANA_KVK	FUNCTIONAL
32	UTTAR_PRADESH	SIDDHARTH_NAGAR	SIDHARTHANAGAR	FUNCTIONAL
33	UTTAR_PRADESH	SONBHADRA	TISSUHI_KVK	FUNCTIONAL
34	UTTAR_PRADESH	VARANASI	VARANASI	FUNCTIONAL
