

**GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
LOK SABHA  
UNSTARRED QUESTION NO. 2936  
TO BE ANSWERED ON WEDNESDAY, 15<sup>TH</sup> DECEMBER, 2021**

**MODERN AUTOMATIC WEATHER STATIONS**

2936. SHRI SAUMITRA KHAN:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether any modern automatic weather stations have been set up in West Bengal;
- (b) if so, the details thereof, location-wise;
- (c) whether the Government has taken any steps to link these weather stations with micro insurance programmes for farmers and if so, the details thereof;
- (d) whether the Government proposes to sanction any new project in Bishnupur Constituency;
- (e) if so, whether there is any Government programme to understand the nature of monsoon pattern in these areas; and
- (f) if so, the details thereof?

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

- (a) Yes Sir. On the whole, there are 33 Automatic Weather Stations and 35 Automatic Rain Gauges installed in West Bengal.
- (b) Details of automatic weather stations and automatic raingauges stations of West Bengal are given in Annexure I and Annexure II, respectively.
- (c) Ministry of Earth Sciences does not have any plans to link the weather stations with micro insurance programmes for farmers.
- (d) No new projects are being sanctioned to Bishnupur Constituency. However, an automatic weather station has already been established in Bankura district in which Bishnupur is located. In addition to that, one RS/RW station is recently established in Bankura to support upper air observations. Also, IMD issues city specific forecasts to Bishnupur among the other stations.
- (e) - (f) IMD has carried out an analysis of observed monsoon rainfall variability and changes of 29 States & Union Territory at State and District levels based on the IMD's observational data of recent 30 years (1989- 2018) during the Southwest monsoon season from June-July-August-September (JJAS). The reports on observed rainfall variability and its trend for each State and Union Territory are available in IMD website (<https://mausam.imd.gov.in/>) under "PUBLICATIONS" as well as in IMD Pune website:

<http://www.imdpune.gov.in/hydrology/rainfall%20variability%20page/rainfall%20trend.html>

Followings are findings on the changes of rainfall and its intensities during the last three decades:

- Five states viz., Uttar Pradesh, Bihar, West Bengal, Meghalaya and Nagaland have shown significant decreasing trends in southwest monsoon rainfall during the recent 30 years period (1989-2018).
- The annual rainfall over these five states along with the states of Arunachal Pradesh and Himachal Pradesh also show significant decreasing trends.
- Other states do not show any significant changes in southwest monsoon rainfall during the same period.
- Considering district-wise rainfall, there are many districts in the country, which show significant changes in southwest monsoon and annual rainfall during the recent 30 years period (1989-2018).
- With regard to the frequency of heavy rainfall days, significant increasing trend is observed over Saurashtra & Kutch, Southeastern parts of Rajasthan, Northern parts of Tamil Nadu, Northern parts of Andhra Pradesh and adjoining areas of Southwest Odisha, many parts of Chhattisgarh, Southwest Madhya Pradesh, West Bengal, Manipur & Mizoram, Konkan & Goa and Uttarakhand.

**Annexure-I****Details of Automatic Weather Stations of West Bengal**

<b>S NO.</b>	<b>STATE</b>	<b>DISTRICT</b>	<b>STATION</b>
1	WEST_BENGAL	BANKURA	BANKURA
2	WEST_BENGAL	BARDHAMAN	BURDWAN
3	WEST_BENGAL	BHIRBHUM	SURI
4	WEST_BENGAL	BIRBHUM	SANTINIKETAN- BOLPUR_KVK
5	WEST_BENGAL	COOCH_BEHAR	PUNDIBARI
6	WEST_BENGAL	DARJEELING	DARJEELING
7	WEST_BENGAL	EAST_MEDINIPUR	TAMLUK
8	WEST_BENGAL	HOOGLY	CHINSURA
9	WEST_BENGAL	HOWRAH	ULUBERIA
10	WEST_BENGAL	JALPAIGURI	HASIMARA
11	WEST_BENGAL	JALPAIGURI	JALPAIGURI
12	WEST_BENGAL	JALPAIGURI	RAMSHAI_KVK
13	WEST_BENGAL	JHARGRAM	JHARGRAM
14	WEST_BENGAL	KALIMPONG	KALIMPONG_AMFU
15	WEST_BENGAL	KOLKATA	KOLKATA AIRPORT
16	WEST_BENGAL	MALDA	RATUA_KVK
17	WEST_BENGAL	MURSHIDABAD	BERHAMPORE
18	WEST_BENGAL	MURSHIDABAD	MURSHIDABAD_KVK
19	WEST_BENGAL	NADIA	KALYANI
20	WEST_BENGAL	NADIA	KRISHNAGAR
21	WEST_BENGAL	NORTH_DINAJPUR	RAIGANJ
22	WEST_BENGAL	NORTH_TWENTY_FOUR_PARGANAS	ASHOKNAGAR_KVK
23	WEST_BENGAL	NORTH_TWENTY_FOUR_PARGANAS	BASIRHAT
24	WEST_BENGAL	PURULIA	PURULIA (State Govt Guest House)
25	WEST_BENGAL	PURULIA	PURULIA_KVK
26	WEST_BENGAL	SOUTH_DINAJPUR	MAJHAN_AMFU
27	WEST_BENGAL	SOUTH_TWENTY_FOUR_PARGANAS	BARUIPUR
28	WEST_BENGAL	SOUTH_TWENTY_FOUR_PARGANAS	CANNING
29	WEST_BENGAL	SOUTH_TWENTY_FOUR_PARGANAS	KAKDWIP
30	WEST_BENGAL	SOUTH_TWENTY_FOUR_PARGANAS	NIMPITH
31	WEST_BENGAL	SOUTH_TWENTY_FOUR_PARGANAS	RAIDIGHI
32	WEST_BENGAL	SOUTH_TWENTY_FOUR_PARGANAS	SAGAR ISLAND
33	WEST_BENGAL	WEST_MEDINIPUR	KHARAGPUR( IIT CAMPUS)

## Annexure-II

**Details of Automatic Raingauge Stations of West Bengal (TOTAL: 35)**

S.NO.	DISTRICT	STATION
1	BANKURA	KADAMDEULI
2	BANKURA	MUKUTMONIPUR
3	BANKURA	SONAMUKHI
4	BARDHAMAN	KATWA
5	BIRBHUM	SHEKHAMPURE
6	COOCH BEHAR	DINHATA
7	COOCH BEHAR	MATHABHANGA
8	COOCH BEHAR	MEKHLIGANJ
9	COOCH BEHAR	TOOFANGANJ
10	DARJEELING	KHARIBARI
11	KALIMPONG	PEDONG
12	DARJEELING	SILIGURI
13	HOOGHLY	DHANIAKHALI
14	HOWRAH	JAGATBALLAVPUR
15	ALIPURDUAR	ALIPURDUAR
16	JALPAIGURI	CHENGMARI TEA
17	JALPAIGURI	JAYANTI
18	JALPAIGURI	MAHUA TEA ESTATE
19	JALPAIGURI	MAINAGURI
20	JALPAIGURI	MALBAZAR
21	MALDA	RATUA
22	NADIA	CHAKDAH
23	NADIA	DEBAGRAM
24	NORTH DINAJPUR	CHOPRA
25	NORTH DINAJPUR	ITAHAR
26	NORTH 24 PARGANAS	BARRACKPORE
27	NORTH 24 PARGANAS	DEGANGA
28	PURULIA	JHALDA
29	PURULIA	KOTSHILA
30	SOUTH DINAJPUR	GANAGRAMPUR
31	SOUTH 24 PARGANAS	ALIPORE
32	NORTH 24 PARGANAS	CGWB BIDHANNAGAR
33	KOLKATA	LA MARTINIÈRE KOL
34	KOLKATA	OHR_15
35	KOLKATA	OHR_10

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