

# PARLIAMENT QUESTION: IMD'S OBSERVATION ON WEATHER FORECASTING FOR COASTAL AREAS OF KERALA

Posted On: 27 NOV 2024 6:01PM by PIB Delhi

This is only a temporary closure in response to the eviction notice issued to the India Meteorological Department (IMD) by the Maritime Board, Kerala State. Despite the closure, the Automatic Rain Gauge (ARG) installed in the same location continues to provide essential weather data, and this office is utilizing it for weather forecasting purposes, thereby not compromising the forecasting capabilities along Kerala's coastal areas.

Meteorological Center (MC)-Thiruvananthapuram has approached the Government of Kerala to provide a suitable site with a building within a 2-3 km radius of the old observatory so that the existing climatological data of the Alappuzha observatory remains relevant and applicable to the new location.

Currently there are no plans for establishing additional weather monitoring stations in the State of Kerala. However, the installation process of one X-Band Radar on the campus of Pazhassi College, Pulppally, Wayanad, is progressing as per the timeline. IMD has already established a sufficient number of Automatic Weather Stations/Automatic Rain Gauges/ and Agro-AWS (AWS/ARG/Agro-AWS) networks in the State of Kerala. Also, IMD has already established AWS and ARG networks in sensitive districts, Idukki and Wayanad, as given in Annexure-1.

The AWS/ARG/Agro-AWS are under the annual maintenance contract (AMC) for maintenance and calibration. The following measures are implemented/being implemented to address the reliability issues of the automatic weather stations and rain gauges in Kerala:

- MC-Thiruvananthapuram is undertaking frequent field comparisons of meteorological parameters such as air temperature, relative humidity, atmospheric pressure, rainfall, wind speed, and wind direction measured at AWS and ARG stations with standard instruments.
- Development of a Quality Control (QC) system for Gross Error Check, Climatological Consistency Checks, Time Consistency Checks, Internal Consistency Checks, and Spatial Consistency Check is undertaken by IMD. The first version of the QC system has been implemented at the Central Data Receiving Server.
- Adequate spares of essential components of AWS and ARG systems are kept to undertake Preventive and Corrective maintenance of AWS and ARG stations.
- IMD is organizing routine training programs to enhance the competency of manpower involved in the maintenance of AWS and ARG stations.

## Annexure-1

AWS/ARG/AGRO-AWS NETWORK				
S. No.	State/ UT	Aws	Arg	Agro-Aws
1	KERALA	109	30	3

S No.	State	District	Aws/Arg Station	Lat	Lon
1	Kerala	Idukki	Anayirankal Dam	10.0104	77.2087
2	Kerala	Idukki	Ayyappankovil	9.7100	77.0100
3	Kerala	Idukki	Cheruthoni	9.8650	76.9983
4	Kerala	Idukki	Kovilkadavu	10.2597	77.1688
5	Kerala	Idukki	Kundala Dam	10.1461	77.2019
6	Kerala	Idukki	Meencut	10.0410	77.0460
7	Kerala	Idukki	Munnar	10.0833	77.0567
8	Kerala	Idukki	Pampadumpara	9.7986	77.1614
9	Kerala	Idukki	Peermade	9.5730	76.9910
10	Kerala	Idukki	Sengulam Dam	10.0124	77.0318
11	Kerala	Idukki	Udumbannoor	9.8667	76.8586
12	Kerala	Idukki	Upper Perinjankutty	9.6000	77.0100
13	Kerala	Idukki	Vattavada	10.1777	77.2538
14	Kerala	Idukki	Vellathooval	9.9800	77.0100
15	Kerala	Idukki	Thodupuzha	9.9100	76.6000
16	Kerala	Wayanad	Ambalavayal_Afmu	11.6173	76.2141
17	Kerala	Wayanad	Kabanigiri	11.8544	76.1781
18	Kerala	Wayanad	Kalpeta	11.6264	76.0886
19	Kerala	Wayanad	Karapuzha	11.6180	76.1670
20	Kerala	Wayanad	Kuppadi	11.6786	76.2269
21	Kerala	Wayanad	Padamala	11.8111	76.0758
22	Kerala	Wayanad	Padinjarathara_Dam	11.6560	75.9460
23	Kerala	Wayanad	Mananthavady	11.7900	76.0000
24	Kerala	Wayanad	Meenangadi	11.6600	76.1600
25	Kerala	Wayanad	Pookot	11.5300	76.0200

This information was given by Union Minister of State (Independent Charge) for Science & Technology and Earth Science, Dr. Jitendra Singh in a written reply in the Lok Sabha today.

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**NKR/ KS**

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