

**GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
LOK SABHA  
UNSTARRED QUESTION NO. 2222  
TO BE ANSWERED ON WEDNESDAY, 2<sup>ND</sup> AUGUST, 2023  
NEW WEATHER MONITORING STATION IN KERALA**

2222. DR. SHASHI THAROOR:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the detailed timelines of the all-India study to gauge the impact of climate change and microclimates, State-wise;
- (b) whether the Government has received proposals to set up any new weather monitoring stations in Kerala; and
- (c) if so, the details thereof and if not, the reasons therefor?

**ANSWER**  
THE MINISTER OF EARTH SCIENCES  
(SHRI KIREN RIJJU)

- (a) Ministry of Earth Sciences (MoES) in 2020 has published ‘Assessment of Climate Change over the Indian Region’, which contains a comprehensive assessment of the impact of climate change upon the Indian subcontinent. The highlights of the report follows:

1. India’s average temperature has risen by around 0.7 deg. C during 1901-2018.
2. Frequency of daily precipitation extremes (rainfall intensities >150 mm per day) increased by about 75% during 1950-2015.
3. The frequency and spatial extent of droughts over India has increased significantly during 1951-2015.
4. Sea-level rise in the North Indian Ocean occurred at a rate of 3.3 mm per year in the last two and half decades (1993-2017).
5. Frequency of Severe Cyclonic Storms over Arabian sea has increased during the post monsoon seasons of 1998-2018.

India Meteorological Department (IMD) routinely monitors Climate over Indian Region and bring out yearly publication viz. “Annual Climate summary”. IMD issues monthly climate summary. Annual climate summary includes information about the temperature, Rainfall and extreme weather events occurring during the concerned period.

- (b) Yes Sir.
- (c) IMD had augmented the surface observation network in Kerala by installing 100 AWS network during 2020-2022.

The existing Surface Observation Network of Kerala including the above is given below:

S. N.	Districts	Manual Surface Observatory(SO) & Part Time Observatory ( PTO)	Manual Rain Guage Stations	Automatic Weather Station ( AWS)	AgroAutomatic Weather Station (AAWS)	Automatic Rainguage Station (ARG)
1	14	14	68	108	3	30

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