GOVERNMENT OF INDIA MINISTRY OF EARTH SCIENCES LOK SABHA

UNSTARRED QUESTION NO. 660 TO BE ANSWERED ON WEDNESDAY, 1ST DECEMBER, 2021

RAINFALL VARIANCE

660. SHRI PARTHIBANS.R.: SHRI VIJAYAKUMAR (ALIAS) VIJAY VASANTH:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the actual rainfall recorded between June and October, 2021 in each State/Union Territory;
- (b) the details of intensity of rainfall recorded in different States during the above period;
- (c) whether the Government has identified the areas which had variance in rainfall;
- (d) if so, the details thereof, State-wise and the reasons for such variance; and
- (e) the steps taken/proposed to be taken for effective use of this rainfall for productive purposes?

ANSWER

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

- (a)-(b) Details of the actual rainfall and the intensity of rainfall are given in Annexure-I.
- (c)-(d) Yes Sir. India Meteorological Department (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 to September (JJAS) and issued a report on 30 March 2020. 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;

 $\frac{http://www.imdpune.gov.in/hydrology/rainfall\%20variability\%20page/rainfall\%20t}{rend.html}$

The **highlights of the report** are given below;

- 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.
- (e) The rainfall variance information is used for the R&D activities within the ministry and also shared with other stakeholders for its effective use and planning.

Annexure-I

STATES	STATE-WISE RAINFALL (MM) DISTRIBUTION					
NO. ACTUAL NORMAL DEP. CATEGORY	S.					
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- COUNTREAS A WICLE 7/5./ 750.0 2%		NTRY AS A WHOLE	975.7	956.6	20 /0	2%

CATEGORYWISE DISTRIBUTION OF NO. OF STATES				
_	PERIOD: 01.06.2021 TO 31.10.2021			
CATEGORY	NO. OF STATES/UTs			
LARGE EXCESS	0			
EXCESS	6			
NORMAL	23			
DEFICIENT	8			
LARGE DEFICIENT	0			
NO RAIN	0			
NO DATA	0			

	CATEGORY
LE	(LARGE EXCESS) (60% or more above LPA)
E	(EXCESS) (20% to 59% above LPA)
N	(NORMAL) (19% above or below LPA)
D	(DEFICIENT) (20% to 59% below LPA)
LD	(LARGE DEFICIENT) (60% to 99% below LPA)
NR	(NO RAIN) (-100%)
LPA	Long Period Average
