

**GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
LOK SABHA  
UNSTARRED QUESTION No. 1149  
TO BE ANSWERED ON FRIDAY, JUNE 28, 2019**

**ESTIMATION OF MONSOON RAINFALL**

**1149. SHRI CHUNNI LAL SAHU:**

**Will the Minister of EARTH SCIENCES be pleased to state:**

- (a) whether the Government has estimated the monsoon to be below average during the current year;**
- (b) if so, the details thereof and the parts of the country where monsoon has been estimated to be below average during the month of July;**
- (c) whether the Government has analysed the reason for the deficiency of rain, if so, the details thereof and the extent to which farmers are likely to be affected due to possibility of drought, State/UT-wise; and**
- (d) the details of alternate source of water supply in case of monsoon failure?**

**ANSWER**

**MINISTER OF STATE IN THE MINISTRY OF HEALTH AND  
FAMILY WELFARE  
(SHRI ASHWINI KUMAR CHOUBEY)**

- (a) No Sir. Government has not estimated the monsoon to be below average during the current year. Both the first stage Long Range Forecast issued on 15<sup>th</sup> April and the second stage updated Long Range Forecast issued on 31<sup>st</sup> May 2019 suggest that the monsoon seasonal rainfall 2019 for the country as whole is likely to be near Normal. Quantitatively, the monsoon seasonal rainfall 2019 is likely to be 96% of the Long Period Average (LPA) with a model error of  $\pm 5\%$ ; the LPA of the seasonal rainfall over the country as a whole for the period being 89 cms. Copies of the press releases issued by IMD in this regard are attached as Annexure for ready reference.**
- (b) The monthly rainfall for the country as whole is likely to be 95% of the Long Period Average (LPA) with a model error of  $\pm 9\%$  during the month of July. The monthly forecast for July does not contain forecast for different parts of the country.**
- (c) The current weak ElNino conditions are likely to continue for some time and then to turn to neutral ENSO conditions during the second half of the monsoon season. Moreover, expected positive Indian Ocean Dipole conditions are likely to compensate the negative aspects (if any) of the unfavourable El Nino conditions, making the seasonal rainfall for the country to be near normal as predicted.**
- (d) Does not arise.**

## Annexure-I

PRESS RELEASE  
New Delhi, 15<sup>th</sup> April 2019



भारत सरकार  
Government of India  
पृथ्वीविज्ञानमंत्रालय (एम. ओ. ई. एस.)  
Ministry of Earth Sciences (MoES)  
भारत मौसम विज्ञानविभाग  
INDIA METEOROLOGICAL DEPARTMENT  
Long Range Forecast of the 2019 Southwest Monsoon Rainfall

### Summary of the Forecast Assessment

- a) Southwest monsoon seasonal (June to September) rainfall over the country as a whole is likely to be near normal.
- b) Quantitatively, the monsoon seasonal (June to September) rainfall is likely to be 96% of the Long Period Average (LPA) with a model error of  $\pm 5\%$ . The LPA of the season rainfall over the country as a whole for the period 1951-2000 is 89 cm.
- c) Weak El Niño conditions are likely to prevail during the monsoon season with reduced intensity in the later part of the season.

The sea surface temperature (SST) conditions over the Pacific (El Niño/La Niña) and Indian Oceans (Indian Ocean Dipole-IOD) which are known to have strong influence on Indian monsoon are being continuously monitored. Overall, the country is expected to have well distributed rainfall scenario during the 2019 monsoon season, which will be beneficial to farmers in the country during the ensuing kharif season.

IMD will issue the second stage Monsoon-2019 Forecast during the first week of June, 2019.

## Annexure-II

PRESS RELEASE  
New Delhi, 31<sup>st</sup> May 2019



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भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT  
Long Range Forecast Update for  
The 2019 Southwest Monsoon Rainfall

### Highlights

- ✦ Rainfall over the country as a whole for the 2019 southwest monsoon season (June to September) is most likely to be **NORMAL** (96% to 104% of long period average (LPA)).
- ✦ Quantitatively, monsoon season rainfall for the country as a whole is likely to be **96%** of the LPA with a model error of **±4%**.
- ✦ Region wise, the season rainfall is likely to be **94%** of LPA over North-West India, **100%** of LPA over Central India, **97%** of LPA over South Peninsula and **91%** of LPA over North-East India all with a model error of **± 8 %**.
- ✦ The monthly rainfall over the country as whole is likely to be **95%** of its LPA during July and **99%** of LPA during August both with a model error of **± 9 %**.
- ✦ The current **weak El Niño** conditions over Pacific are likely to continue during the monsoon season with some possibility of these conditions to turn to neutral ENSO conditions during the latter part of the monsoon season.

IMD will issue forecast for the rainfall during the second half of the season in the end of July 2019.