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Thursday, 10TH October, 2024

EXTENDED RANGE FORECAST FOR JHARKHAND

(Current weather status & outlook for next two weeks from 11TH October, 2024 – 24th October, 2024)

1. Main synoptic features that affected the weather of the state of Jharkhand (03rd October, 2024 - 09th October, 2024):

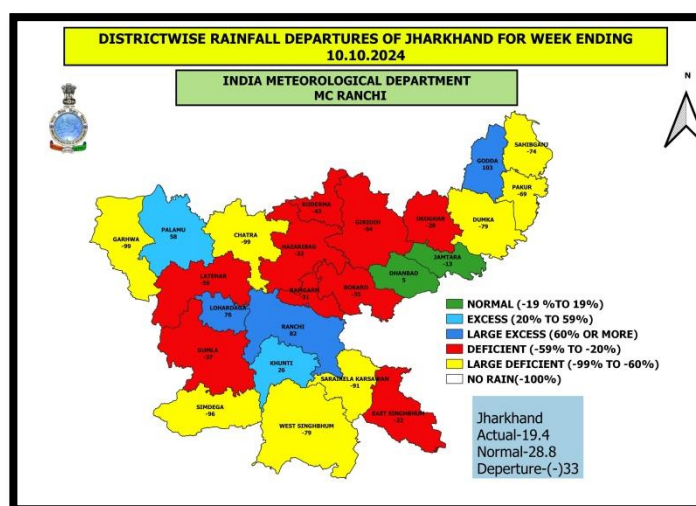
- **03.10.2024:** The upper air circulation over southeast Bangladesh & neighbourhood extending upto 5.8 km above mean sea level persisted. The trough from the cyclonic circulation over southeast Bangladesh & neighbourhood to North Andaman Sea across Myanmar coast now ran from northeast Bihar to north Andaman Sea across the above cyclonic circulation over southeast Bangladesh and east Bay of Bengal at 0.9 km above mean sea level.
- **04.10.2024:** Under the influence of upper air circulation over southwest Bangladesh & neighborhood, a **low-pressure area** was formed over north Bay of Bengal & adjoining coastal areas of Bangladesh & West Bengal with the associated cyclonic circulation extending upto 5.8 km above mean sea level tilting south-westwards with height.
- A trough ran from northeast Uttar Pradesh to the cyclonic circulation over north Bangladesh & adjoining Sub-Himalayan West Bengal across Bihar at 0.9 km above mean sea level.
- **05.10.2024:** The low pressure area over north Bay of Bengal & adjoining coastal areas of Bangladesh & West Bengal became less marked. However, the associated cyclonic circulation laid over northern parts of Gangetic West Bengal & neighbourhood and extends upto 3.1 km above mean sea level.
- **06.10.2024:** A trough ran from Jharkhand to Manipur across above cyclonic circulation over northern parts of Gangetic West Bengal & neighbourhood at 0.9 km above mean sea level.
- **07.10.2024:** A cyclonic circulation laid over East Bangladesh and adjoining southeast Assam and extended upto 1.5 km above mean sea level.
- **08.10.2024 & 09.10.2024:** No significant synoptic system prevailed over the state of Jharkhand. However southwesterly to southerly wind existed from surface to middle tropospheric level over the state.

Under the influence of above systems, isolated to scattered, light to moderate rainfall occurred over the state of Jharkhand. Isolated heavy to very heavy rainfall accompanied with thunder/lightening also occurred over the state of Jharkhand.

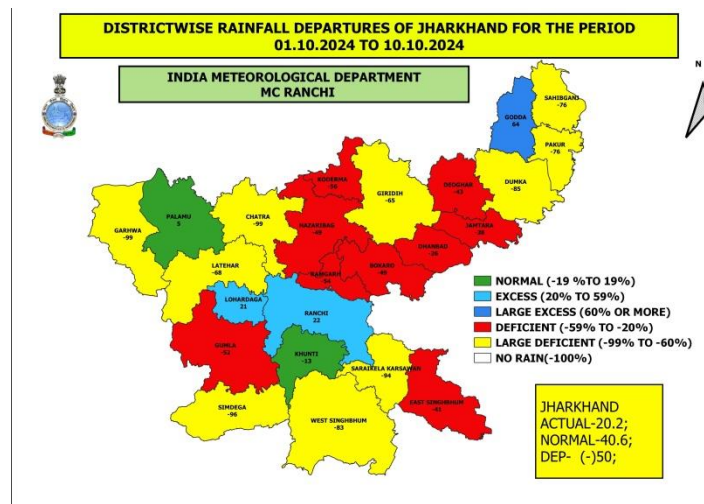
Weekly Rainfall Scenario (03rd October, 2024 – 09th October, 2024):

Cumulatively, the weekly realized rainfall was 19.4 mm (Departure: - 33%) which falls in Deficient category.

CATEGORY	WEEK 03.10.24 to 10.10.24	SEASON 01.10.24 to 10.10.24
LARGE EXCESS	03 Districts	01 Districts
EXCESS	02 Districts	02 Districts
NORMAL	02 Districts	02 Districts
DEFICIENT	09 Districts	09 Districts
LARGE DEFICIENT	08 Districts	10 Districts
NO RAIN	NIL	NIL
Cumulative rainfall (mm)	19.4	20.2
Normal rainfall (mm)	28.8	40.6
DEPARTURE (%)	-33	-50



3. Seasonal Rainfall Scenario (01st October, 2024 to 10th October, 2024): During this period, 09 districts received deficient rainfall, 10 districts received large deficient. 02 districts received normal, 02 districts received excess & 01 districts received large excess. Cumulatively, seasonal rainfall was **Deficient** (Departure -50%) over the state.



4. Temperature during past week:

- Maximum temperature was observed **normal to above normal** during the past week. It remained in the range (29.4-37.3) °C over the state.
- Minimum temperature was observed **normal to above normal** during the past week. It was observed in the range of (20.4-26.5) °C over the state.

5. Chief synoptic conditions as on 10th October, 2024:

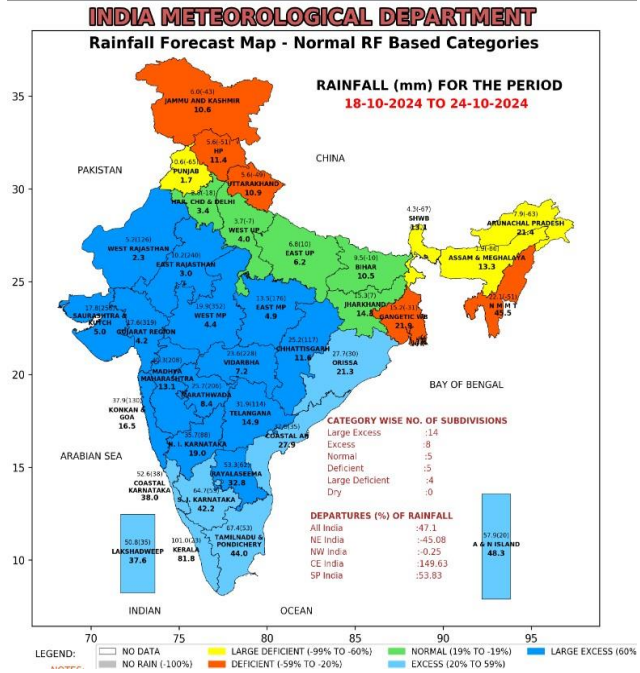
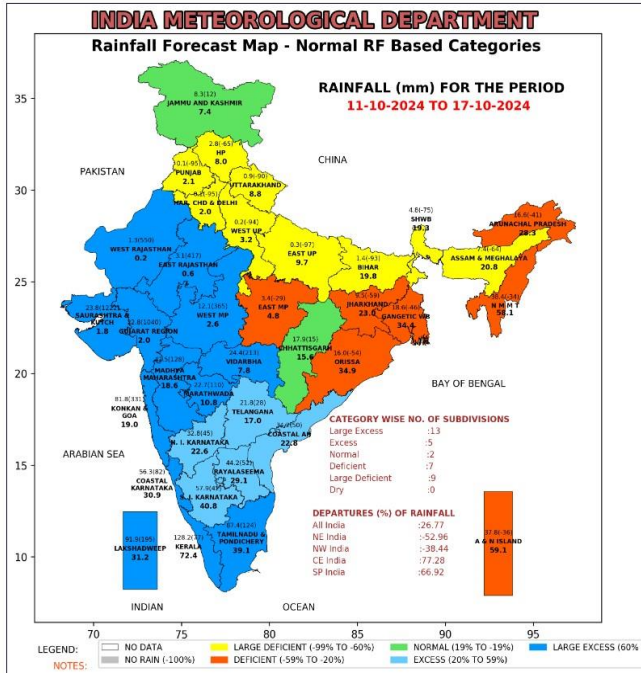
- No significant synoptic system prevails over the state of Jharkhand. However southwesterly to southerly wind exists from surface to middle tropospheric level over the state.
- A fresh cyclonic circulation very likely to develop over central parts of south Bay of Bengal around 12th October at lower & middle tropospheric levels.

6. Forecast for next two weeks:

Under the influence of the present synoptic features, dynamical scenario and model guidance –

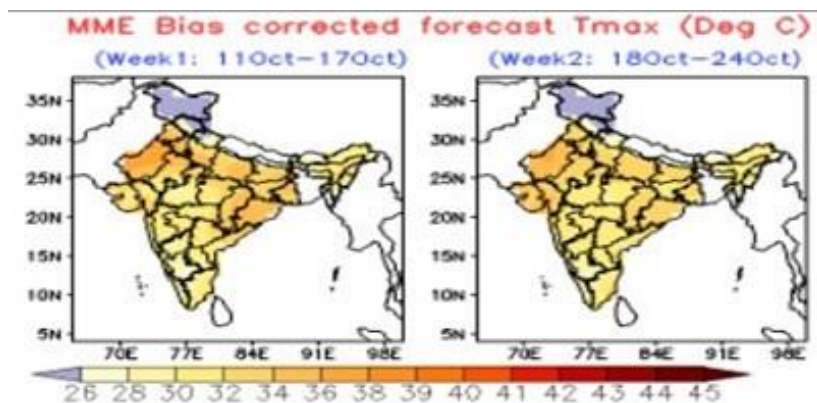
(i) Rainfall forecast for week 1 (11th October, 2024 – 17th October, 2024) and Week 2 (18th October, 2024 – 24th October, 2024):

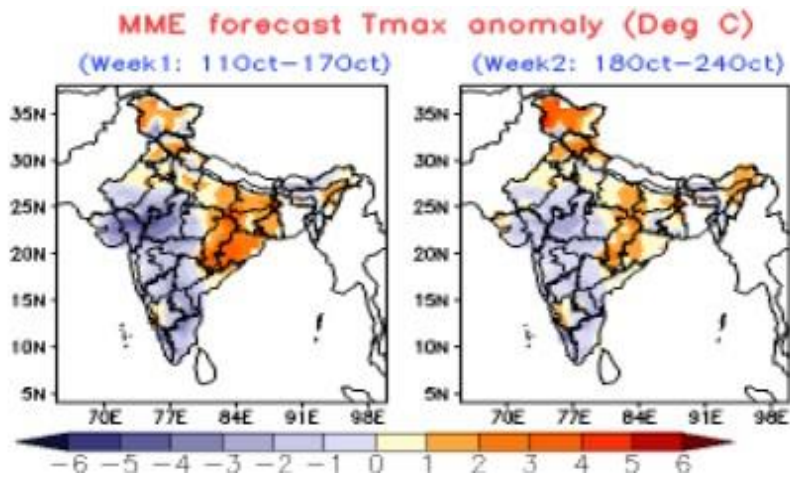
- **Week-1**:- Light to moderate rainfall is likely to occur at isolated places during first half of this week. During second half dry weather is most likely to prevail over the state. Cumulatively, below normal rain is predicted for this week over the state.
- **Week-2**:- Normal rainfall is expected over the state of Jharkhand.



(ii) Maximum Temperature forecast for week 1 (11th October, 2024 – 17th October, 2024) and Week 2 (18th October, 2024 – 24th October, 2024):

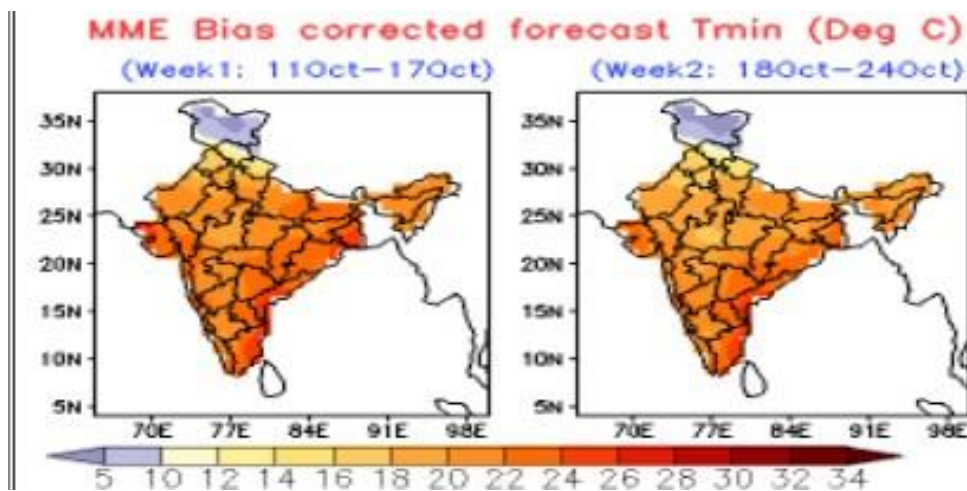
- **Week 1:-** Above normal maximum temperature is very likely to be observed over most parts of the state. It may lie in the range (30-35) °C during the week.
- **Week-2:-** Normal to above normal maximum temperature is likely to be observed over most parts of the state. It may lie in the range (28-34) °C during the week.

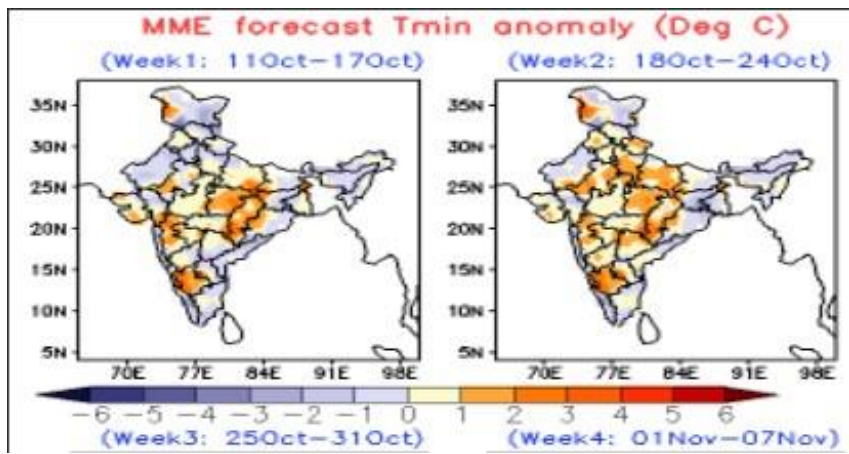




(iii) Minimum Temperature forecast for week 1 (11th October, 2024 – 17th October, 2024) and Week 2 (18th October, 2024 – 24th October, 2024):

- **Week-1** : Normal minimum temperature is likely to be observed over most parts of the state. It may lie in the range (19-23) °C.
- **Week 2**: Normal to below normal minimum temperature is predicted over most parts of the state during this week. It may lie in the range (16-21) °C.





Next bulletin will be issued on 17th October, 2024 (Thursday).

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Meteorological Centre, Ranchi