

## WEATHER REPORT MAY-2024 (JHARKHAND)

### HIGHLIGHTS

- The **Cyclonic circulation, East-West & North-South troughs** over Jharkhand state and its neighbourhood extending mostly in lower levels (925-850) hpa were the main synoptic systems causing convective activity over the state. Besides these, the **Severe cyclonic storm “REMAL”** developed from a Low Pressure Area that formed southwest and adjoining west central Bay of Bengal (BoB) on 22nd May, 2024 concentrated into a depression over central BoB on 24<sup>th</sup> and subsequently intensified into severe cyclonic storm on 26<sup>th</sup> May, 2024, also affected partially the state causing cloudy weather and rain, especially in Eastern part of the state on 26<sup>th</sup> and 27<sup>th</sup> of May, 2024.
- Above systems led to convective activity causing Rain/ Thundershower, gusty wind and also the hail over the state at different interval of time during the month of May, 2024.
- Rainfall occurred on 24 days in the month.
- The highest rainfall recoded at **Rajmahal (Sahibganj District) – 113.2 mm** on 22.05.2024.
- Monthly cumulative rainfall for the month was normal to above normal from 09th onwards in the month and during rest period it was almost dry.
- Seasonal rainfall (Pre Monsoon) since 01.03.2024 till 31.05.2024 was normal to above normal during the month.
- The observed monthly rainfall was 50.7 mm against the normal rainfall of 48.7 mm. Thus departure of Monthly observed rainfall for May, 2024 was + 04 % from normal monthly rainfall which is a Normal (Departure: +19% to -19%) rainfall.
- The observed seasonal (March – May) rainfall (from 01<sup>st</sup> March, 2024 to 31<sup>st</sup> May, 2024) over Jharkhand state as a whole was 88.0 mm against the normal (LPA) rainfall of 83.3 mm and the departure was +06 %. Cumulatively it was also a Normal (Departure: -19% to +19%) rainfall.
- Out of total 24 districts of the state, 02 districts received Large deficient, 06 districts deficient, 09 districts normal, 04 districts excess and remaining 03 districts received large Excess rainfall during May, 2024.
- Out of total 24 districts of the state, 08 districts received Deficient, 07 districts Normal, 06 districts Excess and remaining 03 districts received large Excess rainfall during Pre-Monsoon season, 2024.
- During first and fourth week of the month maximum temperature were observed to be above normal and for rest period it was normal to below normal over the state. However, overall monthly average maximum temperature over most parts of the state was normal except North eastern part where it was below normal during the month of May, 2024. Among five cities (Ranchi, Jamshedpur, Daltonganj, Bokaro, Chaibasa), the highest monthly average maximum of 41.8 °C was for Daltonganj.
- The **highest Maximum Temperature for the Month is 48.0 °C recorded at Garhwa-AWS** on 30.05.2024.

### HIGHLIGHTS (continued)

- During fourth week Minimum temperatures over most parts of the state remained above normal and during rest period they were normal to below normal in the month of May, 2024. Overall monthly average minimum temperature over the state was normal except north eastern part where it was above normal. Among five cities the lowest monthly average minimum temperature of 24.0°C was for Ranchi.
- The **lowest Minimum Temperature for the Month of May, 2024 is 17.2 °C** recorded at **Palamu-AWS** on 08.05.2024.
- Gusty wind on 23 numbers of days was observed over Jharkhand in May-2024. The highest gusty wind reported was 43KT at Khunti (AWS) on 21.05.2024.
- Heat wave realized on 07 days during last 24 hours of date (01<sup>st</sup>, 02<sup>nd</sup>, 06<sup>th</sup>, 07<sup>th</sup>, 29<sup>th</sup>, 30<sup>th</sup> & 31<sup>st</sup>) at isolated places in the state in May, 2024.
- Thunderstorm was observed on thirteen number of days (07,08,09,10,12,13,14,18,20,21,23,24,31) in the month of May-2024.
- Hail was observed on five number of days (07,08,10,12,20) in the month of May-2024.
- **16** casualty/loss due to Heat Wave while **22** casualty/loss due to Lightning strike, as reported by media during the month of May-2024. **02** Livestock deaths was also reported on 19.05.24 due to Lightning strike.

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