



**Government of India  
Earth System Science Organization  
Ministry of Earth Sciences  
India Meteorological Department**

**Press Release: Dated: 19<sup>th</sup> Sept, 2024**

**Subject: Current Weather Status and Extended range Forecast for next two weeks (19 Sept- 2 Oct, 2024)**

**1. Salient Observed Features for week ending 18<sup>th</sup> Sept, 2024**

- **Deep Depression over Northeast Bay of Bengal and adjoining Bangladesh** moved across Gangetic West Bengal, Jharkhand, Chhattisgarh and north Madhya Pradesh during 13<sup>th</sup>-18 Sept and weakened into a low-pressure area over northeast Madhya Pradesh and adjoining southwest Uttar Pradesh. Prior to this system, the last week's **Depression** over northwest Madhya Pradesh and neighbourhood moved north-northeastwards and lay over Southwest Uttar Pradesh & neighbourhood about 50 km east-southeast of Agra (Uttar Pradesh in the morning (0830 IST) of 12<sup>th</sup> September and weakened into a **Well-Marked Low Pressure Area** over northwest Uttar Pradesh & neighbourhood on 13<sup>th</sup> September. The monsoon trough remained active on most days of the week.
- Under the influence of the above systems, **Exceptionally heavy rainfall** was recorded over West Madhya Pradesh: Biaora (dist Rajgarh) 36 on 12<sup>th</sup> September, **Extreme Heavy Rainfall** over West Uttar Pradesh on 12<sup>th</sup> & 18<sup>th</sup> September; East Rajasthan & Madhya Pradesh on 12<sup>th</sup> September; Haryana on 14<sup>th</sup> September; Uttarakhand on 13<sup>th</sup> September. **Very Heavy Rainfall** over Gangetic West Bengal during 14<sup>th</sup> - 16<sup>th</sup> September; Jharkhand during 15<sup>th</sup> to 17<sup>th</sup> September; Uttarakhand during 12<sup>th</sup> to 14<sup>th</sup> September; Odisha during 15<sup>th</sup> to 18<sup>th</sup> September; East Madhya Pradesh during 17<sup>th</sup> to 18<sup>th</sup> September; East Uttar Pradesh on 13<sup>th</sup> & 18<sup>th</sup> September; Chhattisgarh during 16<sup>th</sup> to 17<sup>th</sup> September; West Uttar Pradesh on 18<sup>th</sup> September; West Madhya Pradesh on 18<sup>th</sup> September; Bihar on 15<sup>th</sup> September.
- **Temperature Scenario:** The highest maximum temperature of **41.0°C** had been recorded at **Madurai (Tamilnadu)** on **17<sup>th</sup> September 2024** and the lowest minimum temperature of **17.8°C**

had been recorded at **Delhi Ridge (Delhi)** on **13<sup>th</sup> September 2024** over the plains of the country during the week.

- **Analysis of weekly overall rainfall distribution during the week ending on 18<sup>th</sup> September and monsoon Season’s Rainfall Scenario (01<sup>st</sup> June - 18<sup>th</sup> Sep, 2024):** The country as a whole, the weekly cumulative All India Rainfall (for 12<sup>th</sup> to 18<sup>th</sup> Sept 2024) in % departure from its long period average (LPA) is -7%. All India Seasonal cumulative rainfall % departure during this year’s monsoon Season’s Rainfall (01<sup>st</sup> June to 18<sup>th</sup> Sep 2024) is +7%. Details of the rainfall distribution over the four broad geographical regions of India are given in Table 1 and Meteorological sub-division-wise rainfall both for week and season are given in Annexure I & II respectively.

**Table 1: Rainfall status (Week and season)**

Region	WEEK			SEASON		
	12.09.2024 TO 18.09.2024			01.06.2024 TO 18.09.2024		
	Actual	Normal	% Dep	Actual	Normal	% Dep
East & northeast India	74.1	69.7	6%	1081.6	1262.3	-14%
Northwest India	39.4	22.9	+72%	598.8	561.0	+7%
Central India	34.9	41.6	-16%	1086.5	923.6	+18%
South Peninsula	5.5	37.9	-86%	761.3	649.0	+17%
Country as a whole	36.7	39.6	-7%	871.9	812.1	+7%

## 2. Large scale features

- Currently, neutral El Nino-Southern Oscillation (ENSO) conditions are prevailing in the equatorial Pacific region. The latest forecasts from the Monsoon Mission Climate Forecasting System (MMCFS) and other climate models suggest that neutral ENSO conditions likely to continue until the end of the monsoon season.
- Presently, neutral Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean. The climate models forecast indicates that these neutral IOD conditions are likely to continue until the end of the monsoon season.
- The Madden Julian Oscillation (MJO) index is currently in Phase 6 with an amplitude close to 1. It is likely to continue to move in phase 7 during first half of week 1 with a reduction in amplitude to near 1. Thereafter, it is likely to enter into phase 8 during the 1<sup>st</sup> half of the week 2 and propagate across phase 8 with amplitude remaining more than 1 by end of the week 2.

### 3. Forecast for next two week

#### Forecast for next two week

#### Weather systems & associated Precipitation during Week 1 (19 to 25 September, 2024) and Week 2 (26 September to 2 October, 2024)

#### Weather systems & associated Precipitation during Week 1 (19 to 25 September, 2024)

##### **Weather Systems:**

- ✓ The monsoon trough is south of its normal position. It is likely to shift northwards gradually during 1<sup>st</sup> half of the week.
- ✓ A **cyclonic circulation** over lies over southeast Rajasthan & neighbourhood in lower & middle tropospheric levels,

##### **Forecast & Warnings:**

##### **Central India:**

- ✓ Scattered to Fairly Widespread light to moderate rainfall very likely over Central India during the week.
- ✓ Isolated **heavy rainfall** very likely over East Madhya Pradesh, Chhattisgarh during 23<sup>rd</sup>-25<sup>th</sup>; West Madhya Pradesh, Vidarbha on 24<sup>th</sup> & 25<sup>th</sup> September.

##### **East & Northeast India**

- ✓ Fairly widespread to Widespread light/moderate rainfall very likely over Andaman & Nicobar Islands; Scattered to Fairly widespread light to moderate rainfall very likely over remaining East India & Northeast India during the week.
- ✓ Isolated **heavy rainfall** very likely over Andaman & Nicobar Islands on 19<sup>th</sup> & 20<sup>th</sup>; Odisha on 22<sup>nd</sup> & 23<sup>rd</sup>; Nagaland, Manipur, Mizoram & Tripura during 22<sup>nd</sup> - 25<sup>th</sup>; Arunachal Pradesh, Assam & Meghalaya during 23<sup>rd</sup> – 25<sup>th</sup> September.

##### **Northwest India**

- ✓ Isolated to Scattered light to moderate rainfall very likely over the region during the week.

##### **West & South Peninsular India**

- ✓ Scattered to Fairly widespread light/moderate rainfall very likely over Konkan & Goa, Marathwada, Rayalaseema, Coastal and North Interior Karnataka; Isolated to scattered light/moderate rainfall very likely over remaining region during the week.
- ✓ **Hot and Humid Weather** very likely over Tamil Nadu, Puducherry & Karaikal on 19<sup>th</sup> & 20<sup>th</sup> September.

- ❖ Overall, rainfall is likely to be below normal over all the homogeneous regions of India during the week.
- ❖ Conditions are likely to become favourable for withdrawal of Southwest Monsoon from some parts of northwest India around 23<sup>rd</sup> September, 2023.

**Rainfall for week 2 (26 September to 2 October, 2024):**

- ❖ Scattered to fairly widespread rainfall likely over most parts of the country during many days of the week. Isolated heavy rainfall is also likely along the west coast, over Madhya Pradesh, rest parts of Maharashtra, Telangana during many days of the week.
- ❖ Overall, rainfall is likely to be normal to above normal over most parts of northwest, central and south Peninsular India and near normal to above normal over east & northeast India.
- ❖ **Southwest Monsoon likely to withdraw from some more parts of northwest India during the week.**

**Legends:** Heavy Rain: 64.5 to 115.5 mm Very Heavy Rain: 115.6 to 204.4 mm, Extremely Heavy Rain > 204.4 mm



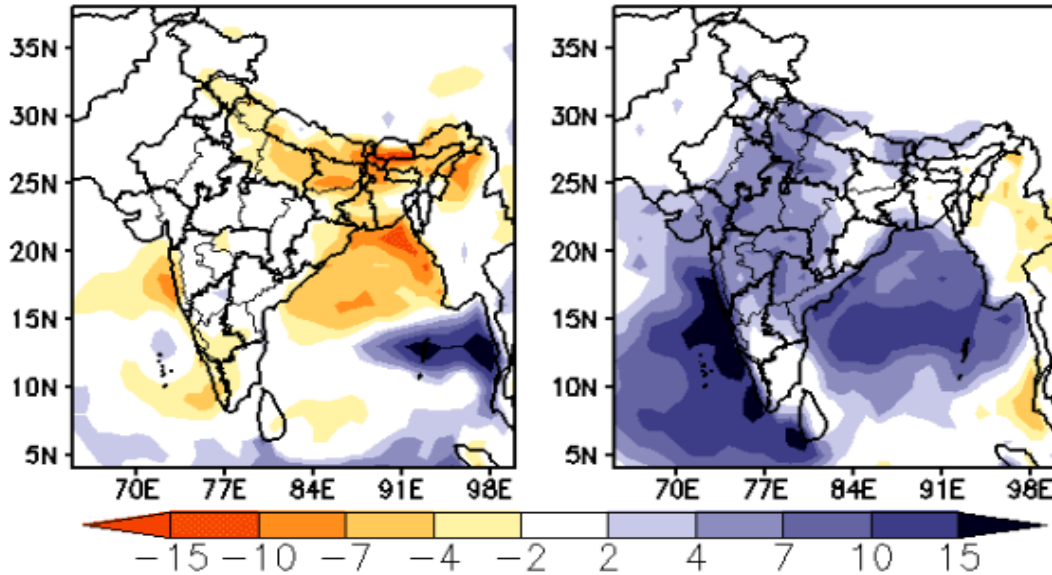




**Forecast Rainfall Anomaly (mm/day)** (00Z=0530 hrs IST)

(Week1:00Z19Sep-00Z26Sep)

(Week2:00Z26Sep-00Z03Oct)

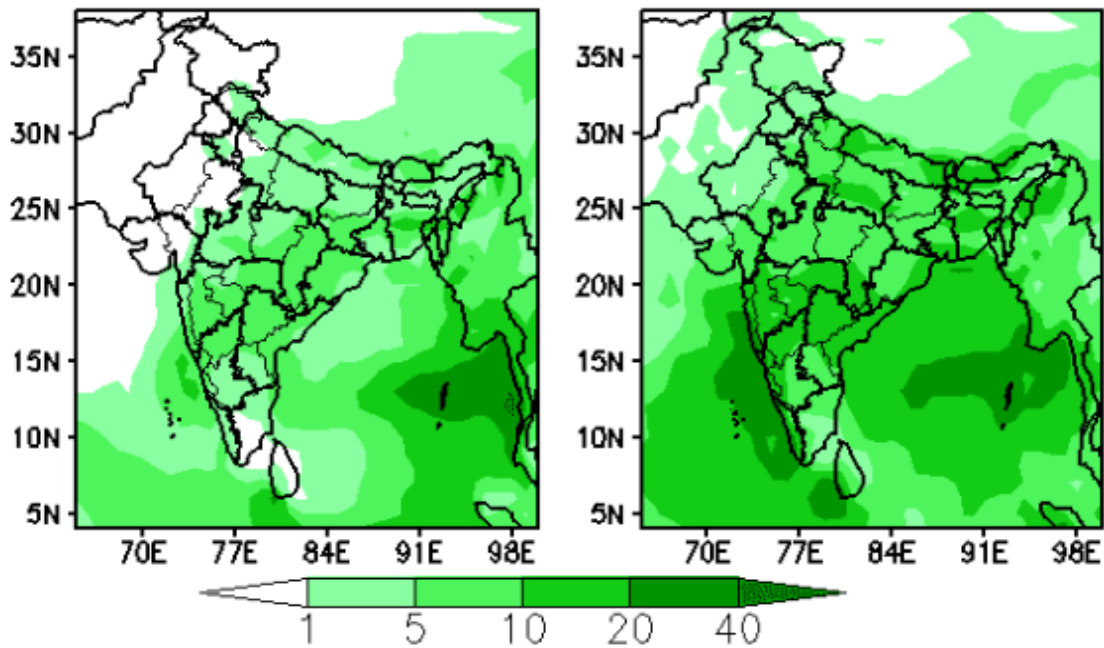


**Forecast Rainfall (mm/day)**

(00Z=0530 hrs IST)

(Week1:00Z19Sep-00Z26Sep)

(Week2:00Z26Sep-00Z03Oct)



Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies(lower panesl) from IMD MME