

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

**Press Release: Dated: 21<sup>st</sup> November, 2024**

**Subject: Current Weather Status and Extended range Forecast for next two weeks (21<sup>st</sup>– 04<sup>th</sup> December 2024)**

**1. Salient Observed Features for the week ending 20<sup>th</sup> November 2024:**

- **Dense to Very Dense Fog** continued to persist mainly over Punjab, Haryana, northwest Rajasthan, Delhi and Uttar Pradesh during the week till 19<sup>th</sup> November and then significantly reduced in intensity, duration and spatial coverage over the region towards end of the week. It was observed over Punjab till 18<sup>th</sup> November; Haryana, Delhi and northwest Rajasthan till 19<sup>th</sup> November and Uttar Pradesh till 20<sup>th</sup> November.
- **Very Heavy Rainfall** was observed at isolated places over Tamil Nadu, Puducherry & Karaikal on 16<sup>th</sup> & 20<sup>th</sup> November, and Kerala & Mahe on 16<sup>th</sup> November.
- **Minimum temperature** was above normal by 1-3<sup>o</sup>C over northern India and south peninsular India and near normal over northeast India during this week. It has fallen by 3-4 <sup>o</sup>C over plains of northwest India during 2<sup>nd</sup> half of the week. The **lowest minimum temperature** of 7.2<sup>o</sup> C had been recorded at Sikar (East Rajasthan) on 19<sup>th</sup> November 2024 over the plains of the country during the week.
- **Analysis of weekly overall rainfall distribution during the week ending on 20<sup>th</sup> October and Post-monsoon Season's Rainfall Scenario (01<sup>st</sup> October to 20<sup>th</sup> November 2024):** The country as a whole, the weekly cumulative All India Rainfall (for 14<sup>th</sup> to 20<sup>th</sup> November 2024) in % departure from its long period average (LPA) is -33%. All India Seasonal cumulative rainfall % departure during this year's post-monsoon Season Rainfall (01<sup>st</sup> October – 20<sup>th</sup> November 2024) is -11%. 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)**

RAINFALL SUMMARY DURING THE WEEK & SEASON								
Region	WEEK				SEASON			
	14.11.2024 TO 20.11.2024				01.10.2024 TO 20.11.2024			
	Number of Sub-divisions		Sub-divisional % Area of Country		Number of Sub-divisions		Sub-divisional % Area of Country	
CUMULATIVE RAINFALL (MM)	Actual (mm)	Normal (mm)	Departure (%)	Category	Actual (mm)	Normal (mm)	Departure (%)	Category
EAST & NORTH-EAST INDIA	0.1	4.1	-98%	LD	145.9	140.8	+4%	N
NORTH-WEST INDIA	0.5	2.7	-82%	LD	7.3	29.3	-75%	LD
CENTRAL INDIA	0.3	3.7	-93%	LD	55.4	67.6	-18%	N
SOUTH PENINSULA	21.2	19.8	+7%	N	215.9	221.3	-2%	N
Country as a whole	4.4	6.6	-33%	D	86.6	97.7	-11%	N

**2. Large scale features:**

- ❖ The sea surface temperatures are below average in the eastern equatorial Pacific Ocean. Currently, neutral El Nino-Southern Oscillation (ENSO) conditions are observed over the equatorial Pacific. The probability forecast indicates a highest probability of La Niña conditions during the December to February.
- ❖ Above-average sea surface temperatures (SSTs) are currently seen across most of the Indian Ocean. Currently, neutral Indian Ocean Dipole (IOD) conditions are observed over the Indian Ocean. The latest MMCFS forecast indicates that the neutral IOD conditions are likely to continue for the next several months. The Madden Julian Oscillation (MJO) index is currently Phase 2 with amplitude >1. It is likely to move in phase 4 through phase 3 with amplitude nearly 1 during the week.

**3. Forecast for next two week**

**Weather systems & associated Precipitation during Week 1 (21 to 27 November, 2024) and Week 2 (28 November to 04 December, 2024)**

**Weather systems & associated Precipitation during Week 1 (21 to 27 November, 2024):**

**Weather Systems:**

- ❖
- ❖ A **cyclonic circulation** lies over Comorin area & neighbourhood in lower tropospheric levels.

**Forecast & Warnings (upto 7 days):**

- ✓ Light to moderate rainfall at a few places accompanied with isolated thunderstorm & lightning very likely over Lakshadweep on 21<sup>st</sup>, Tamil Nadu, Puducherry & Karaikal on 21<sup>st</sup> & 25<sup>th</sup>, and Kerala & Mahe on 25<sup>th</sup> November.
- ✓ Light to moderate rainfall at many places over Andaman & Nicobar Islands during the week; Light to moderate rainfall at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 21<sup>st</sup> & 22<sup>nd</sup> November.
- ✓ Isolated **heavy to very heavy rainfall** very likely over south Tamil Nadu on 21<sup>st</sup>, 25<sup>th</sup>-27<sup>th</sup> and Coastal Andhra Pradesh & Yanam on 26<sup>th</sup> & 27<sup>th</sup> November.
- ✓ Isolated **heavy rainfall** very likely over Nicobar Islands during 21<sup>st</sup> – 24<sup>th</sup>, Kerala & Mahe on 21<sup>st</sup>, 26<sup>th</sup> & 27<sup>th</sup> and Rayalaseema on 26<sup>th</sup> & 27<sup>th</sup> November.
- ✓ Isolated **Hailstorm** activity also very likely over Manipur on 21<sup>st</sup> and Meghalaya on 21<sup>st</sup> & 22<sup>nd</sup> November.
- ❖ **Overall, rainfall is likely to be above normal over northeast India and normal to above normal over South Peninsular India during the week (Annexure III).**

#### Precipitation for week 2 (28 November to 04 December, 2024):

- ❖ Under the likely formation of a **low pressure area** over southeast Bay of Bengal around 23<sup>rd</sup> and into a **depression** over central parts of south Bay of Bengal during subsequent 2 days, scattered to fairly widespread rainfall with isolated heavy falls likely over parts of south Peninsular India during 1<sup>st</sup> half of the week.
- ❖ No active western disturbance is likely to affect northwest India during the week.
- ❖ Overall, rainfall is likely to be above normal over most parts of south Peninsular, central and east India; below normal over northwest India and may parts of northeast India during the week (**Annexure III**).

#### Minimum temperature and Fog forecast & warning for Week 1 (21 to 27 November, 2024) and Week 2 (28 November to 04 December, 2024)

#### Minimum temperature and Fog forecast & warning for Week 1 (21 to 27 November, 2024):

#### **Temperature Conditions during past 24 hours till 0830 hours IST of today, 21 November, 2024:**

No significant change in minimum temperature observed over most parts of the country during past 24 hours. Minimum temperatures are appreciably above normal (3°C to 5°C) at isolated places over Bihar and Nagaland, Manipur, Mizoram & Tripura; above normal (2°C to 3°C) at isolated places over East Uttar Pradesh, Gujarat state, Gangetic West Bengal and Kerala & Mahe. These are appreciably below normal (3°C to 5°C) at isolated places over East Rajasthan, Madhya Pradesh, Madhya Maharashtra,

Chhattisgarh, Odisha, Telangana, Coastal Andhra Pradesh & Yanam and North Interior Karnataka; it is near normal over rest parts of the country. Today, the lowest minimum temperature of 8.1°C is reported at Ridge (Delhi) over the plains of the country.

#### **Forecast of temperature:**

- ❖ No significant change in minimum temperatures likely over northwest, central and east India during next one week.
- ❖ No cold wave expected over any part of the country during the week (**Annexure V**).

#### **Dense fog Warnings:**

- ❖ **Dense fog conditions** very likely to prevail in isolated pockets of East Uttar Pradesh in late night of 21st /early morning of 22<sup>nd</sup> & Punjab, Haryana, Chandigarh during late night of 22<sup>nd</sup> to early morning of 24<sup>th</sup> and Himachal Pradesh during late night of 23<sup>rd</sup> to early morning of 26<sup>th</sup> November.
- ❖ Shallow to moderate fog conditions very likely to prevail in isolated pockets of North India during remaining days of the week.

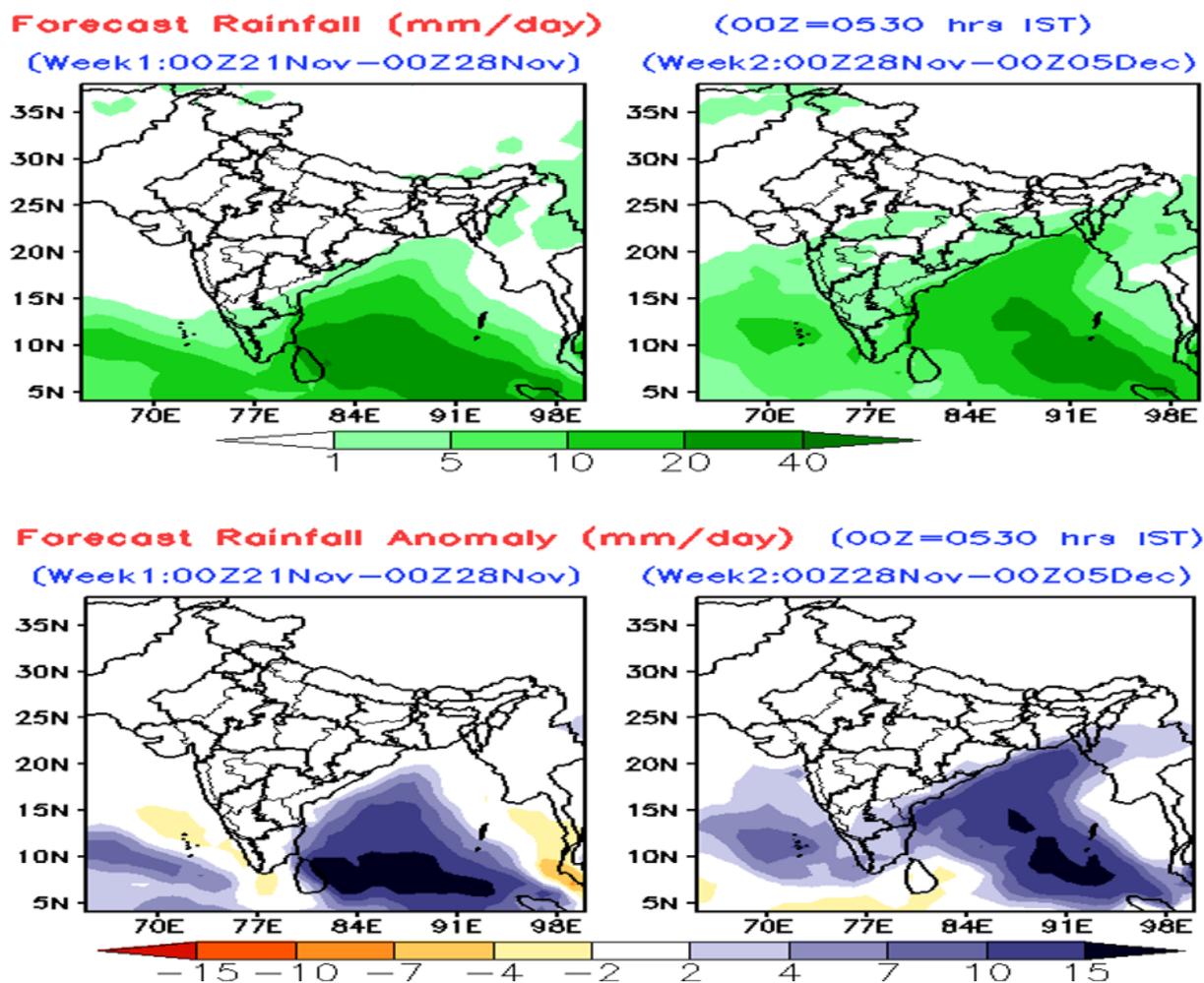
#### **Minimum temperature forecast for Week 2 (28 November to 04 December, 2024):**

- ❖ Minimum temperatures are likely to be near normal over most parts of country except parts of Western Himalayan Region, Northeast India and south Peninsular India, where these are likely to be above normal by 1-2°C (**Annexure IV**).
- ❖ No cold wave expected over any part of the country during the week (**Annexure V**).



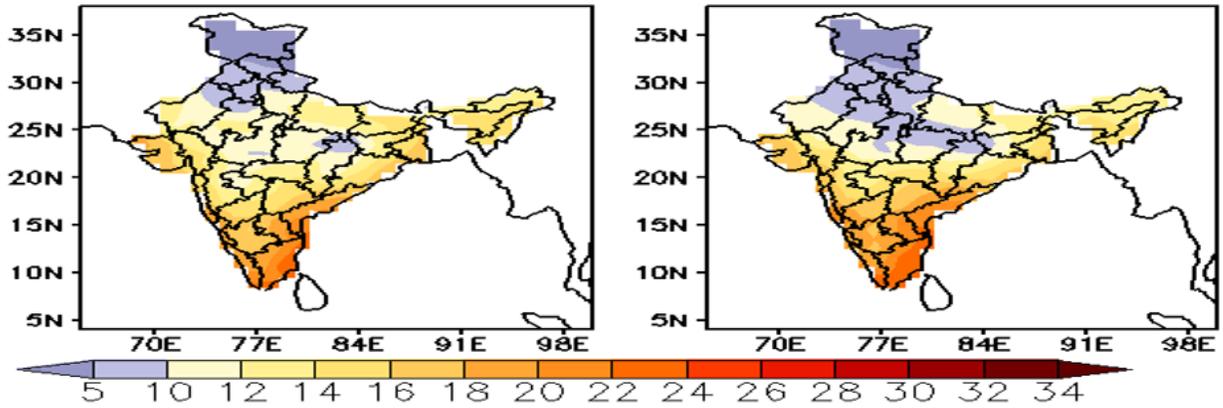


### Annexure III

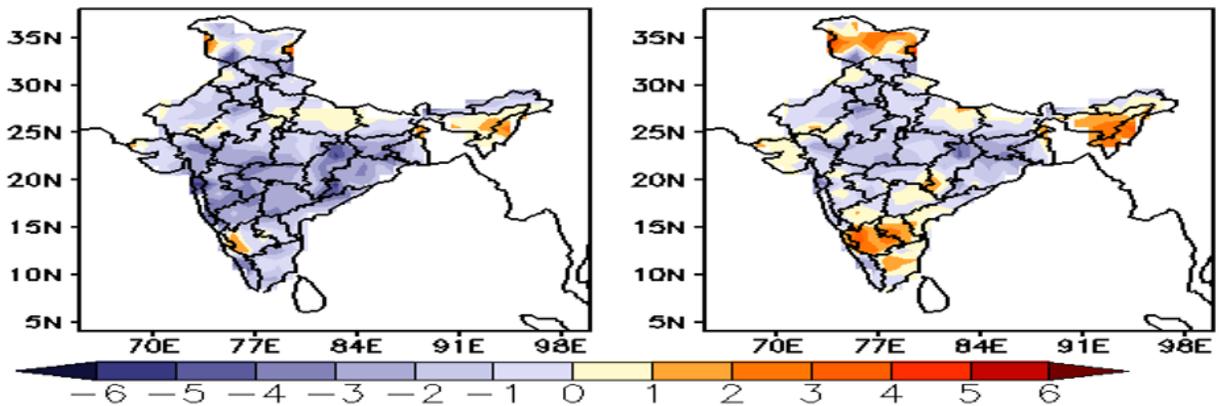


Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

**MME Bias corrected forecast Tmin (Deg C)**  
(Week1: 22Nov–28Nov) (Week2: 29Nov–05Dec)



**MME forecast Tmin anomaly (Deg C)**  
(Week1: 22Nov–28Nov) (Week2: 29Nov–05Dec)



Extended range forecast of weekly distribution of Minimum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

**Cold Wave forecast during next 2 weeks**

**EXTENDED RANGE OUTLOOK FOR COLDWAVE**

**Week 1: 22.11.2024- 28.11.2024**

**Week2: 29.11.2024-05.12.2024**



**PROBABILITY OF HEATWAVE CONFIDENCE**

- LOW (1-33% PROBABILITY)** 
- MODERATE (34-67% PROBABILITY)** 
- HIGH (68-100% PROBABILITY)** 

**Cold wave warning:**

There is NIL probability of Cold Wave event over any parts of the country during next 2 weeks.