Government of India

Earth System Science Organization

Ministry of Earth Sciences

India Meteorological Department

Press Release: Dated: 06th February, 2025

Subject: Current Weather Status and Extended range Forecast for the next two weeks (06th to 19th February 2025)

1. Salient Observed Features for the week ending 05th February 2025:

- **Two Western Disturbances (WDs) (31 Jan-3rd Feb and 3-5 Feb)** moved across northern parts of India during the week. 1st WD caused light to moderate rainfall/snowfall over Jammu & Kashmir and adjoining areas during 1-3 Feb and 2nd WD caused light to moderate rainfall/snowfall across western Himalayan Region and isolated very light to light rainfall over adjoining plains of northwest India during 4 to 5 February.
- **Last week's Dense Fog/Low Cloud continued to persist over the east & northeast India including Odisha and West Bengal during the most days of this week. Dense to very Dense Fog** was observed in isolated pockets of Punjab Haryana Uttar Pradesh on 31st January, 01st to 04th February, Bihar on 31st January, 01st & 04th February, Delhi on 01st February, Odisha on 31st Jan, 01st to 5th Feb, Assam & Meghalaya on 01st, 03rd to 05th February, West Rajasthan on 31st January, Andhra Pradesh on 01st February, Chhattisgarh on 31st January, South Interior Karnataka on 03rd February. **Dense Fog** was observed in isolated pockets of Gangetic West Bengal on 31st January, 02nd to 03rd February, Nagaland on 31st January, Sikkim on 31st January to 04th February and Chandīgarh on 01st February.
- **Weekly Average Minimum temperature** was above normal by 3-5°C over parts of northwest India, central India and west coast of India, normal over remaining parts of the country outside parts of east coast of India, where it was below normal by 1-2°C. **Weekly Average Maximum temperature** was above normal by 1-3°C over northeast India and parts of northwest India and near normal over rest parts of the country outside southeast Peninsular India where it was below normal by 1-3°C during the week.
- **Temperature Scenario:** The lowest minimum temperature of **4.0°C** had been recorded at **Ganganagar (West Rajasthan)** on **03 February 2025** and the

highest maximum temperature of **38.4°C** had been recorded at **Nandigama (Coastal Andhra Pradesh)** on **04 & 05 February 2025** over the plains of the country during the week.

- **Analysis of weekly overall rainfall distribution during the week-ending on 05th February and Winter Season's Rainfall Scenario (1st January – 05th February 2025):** The country as a whole, the weekly cumulative All India Rainfall (for 31st January to 05th February 2025) in % departure from its long period average (LPA) is -59%. All India Seasonal cumulative rainfall % departure during this year's Winter Season Rainfall (01st January to 05th February 2024) is -69%. Details of the rainfall distribution over the four broad geographical regions of India are given in Table 1, and Meteorological sub-division-wise rainfall for week and season are given in Annexure I & II, respectively.

Table 1: Rainfall status (Week and season)

Region	Week			Season		
	16.01.2025 TO 22.01.2025			01.01.2025 TO 22.01.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	**3.5**	**5.7**	**-39%**	**10.0**	**21.3**	**-53%**
NORTHWEST INDIA	**3.4**	**7.4**	**-54%**	**9.7**	**38.8**	**-75%**
CENTRAL INDIA	**0.0**	**1.7**	**-99%**	**0.3**	**8.4**	**-97%**
SOUTH PENINSULA	**0.3**	**1.1**	**-74%**	**7.4**	**8.6**	**-13%**
THE COUNTRY AS A WHOLE	**1.7**	**4.0**	**-59%**	**6.1**	**19.8**	**-69%**

2. Large scale features:

- Over the equatorial Pacific Ocean, weak La Niña conditions are present and are expected to persist through the first quarter of 2025 (January to March). After that, a transition to ENSO-neutral conditions is likely.

- Near-average sea surface temperatures (SSTs) are currently seen across most of the Indian Ocean. 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 JFM season.

- The Madden Julian Oscillation (MJO) index is currently in Phase 6 with an amplitude > 1. It is likely to migrate to Phase 7 during the second half of Week

1, with amplitude remaining >1. By the start of week 2 it is likely to cross over to Phase 8 with amplitude remaining > 1 and remain in Phase 8 till throughout week 2.

3. Forecast for the next two weeks

Weather systems & associated Precipitation during Week 1 (06 to 12 February, 2025):

- The A **Western Disturbance** seen as a cyclonic circulation over north Pakistan and adjoining Jammu region with a trough aloft in middle tropospheric levels runs roughly along Long. 72°E to the north of Lat. 30°N.
- A **cyclonic circulation** lies over central Assam & neighbourhood in lower tropospheric levels. Under its influence,
  - ✓ Isolated to scattered light/moderate rainfall likely over northeast India & Sub-Himalayan West Bengal & Sikkim during most days of the wee. Isolated thunderstorm & lightning also likely over Arunachal Pradesh and northeast Assam on 06th & 07thFebruary.
- Another **fresh Western Disturbance** is likely to affect Western Himalayan Region from 08th February, 2025.Under its influence,
  - ✓ Isolated to scattered light rainfall/snowfall activity likely over Western Himalayan Region during 08th-12thFebruary, 2025.

Precipitation for week 2 (13 to 19 February, 2025):

- No active western disturbance is likely to influence northwest India during the week. However, due to feeble Western disturbances, light/moderate isolated to scattered rainfall/snowfall likely over Western Himalayan Region during some/many days of the week.
- Light/moderate isolated to scattered rainfall is also likely over northeast India during some days of the week.
- Overall, rainfall is likely to be below normal over all the homogeneous regions of the country during the week.

Temperature and Fog forecast & warning for Week 1 (06 to 12 February, 2025):

Forecast of temperature:

- No significant change in minimum temperatures likely over Northwest India during next 24 hours and gradual rise by 2-3℃ during subsequent days of the week.

- Gradual fall in minimum temperatures by 2-3℃ likely over Central India during 1st half of the week and no significant change during subsequent days of the week.
- Gradual fall in minimum temperatures by 3-5℃ likely over East India during next 2 days and no significant change during subsequent days of the week.
- No significant change in minimum temperatures likely over Maharashtra during next 24 hours and gradual rise by 2-3℃ during subsequent days of the week.
- Maximum temperatures are likely to be above normal by 3-5°C over north Peninsular & East India during most days of the week.

Dense Fog Warnings:

- **Dense fog conditions** very likely to continue to prevail during early morning hours in isolated pockets of Himachal Pradesh and Odisha till 08th February.

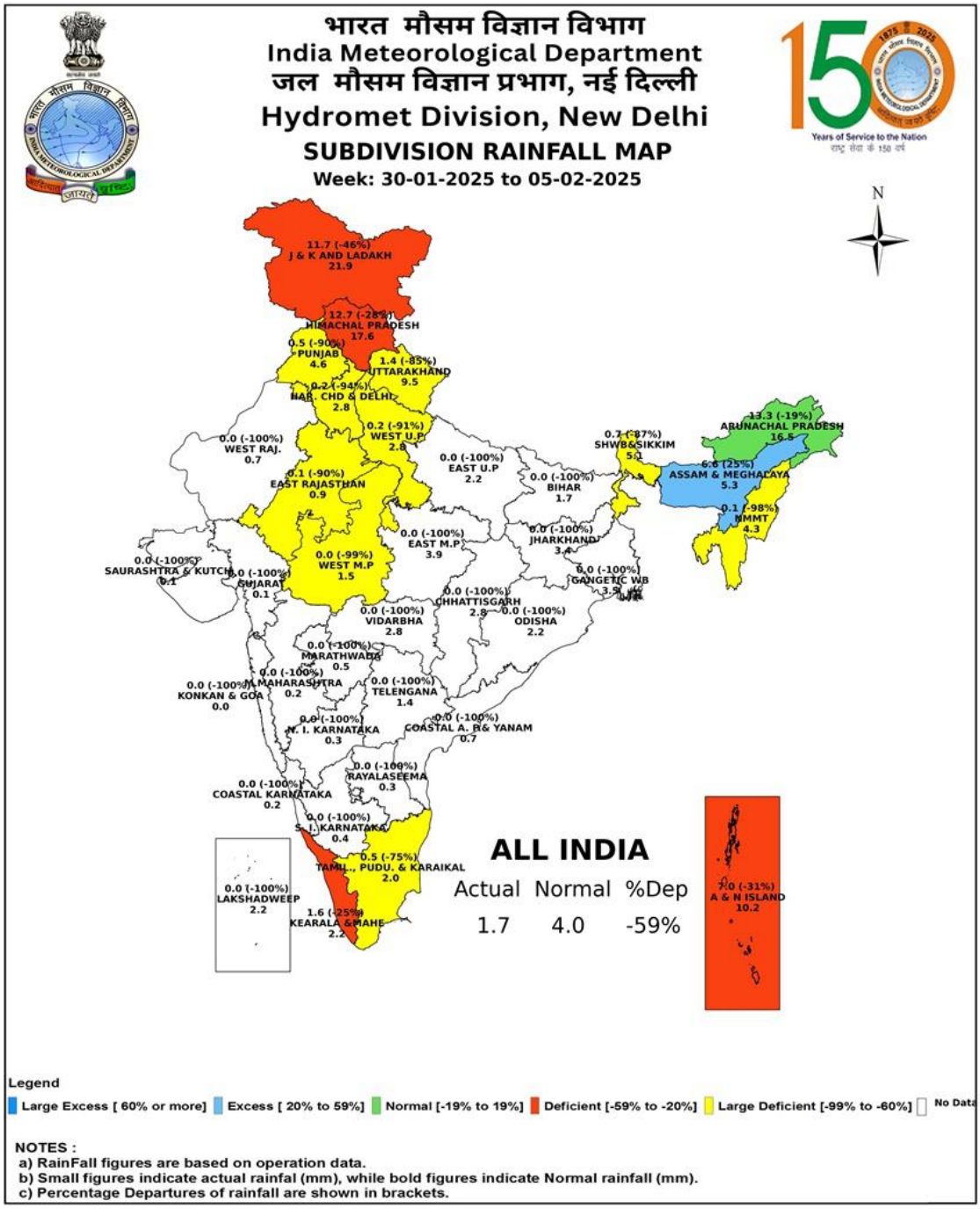
Cold Wave Warnings:

- There is no probability of cold wave conditions over any part of the country **(Annexure V).**

Temperature forecast and dense fog warning for Week 2 (13 to 19 February, 2025):

- Minimum temperatures are likely to be between 8-12°C over most parts of plains of northwest India, central & east India during the week.
- Minimum temperatures are likely to be below normal by 2-4°C over most parts of east and adjoining central & north Peninsular India during the week**.**
- There is no probability of cold wave conditions over any part of the country **(Annexure V).**
- There is less probability of dense fog over any part of the country.

Annexure I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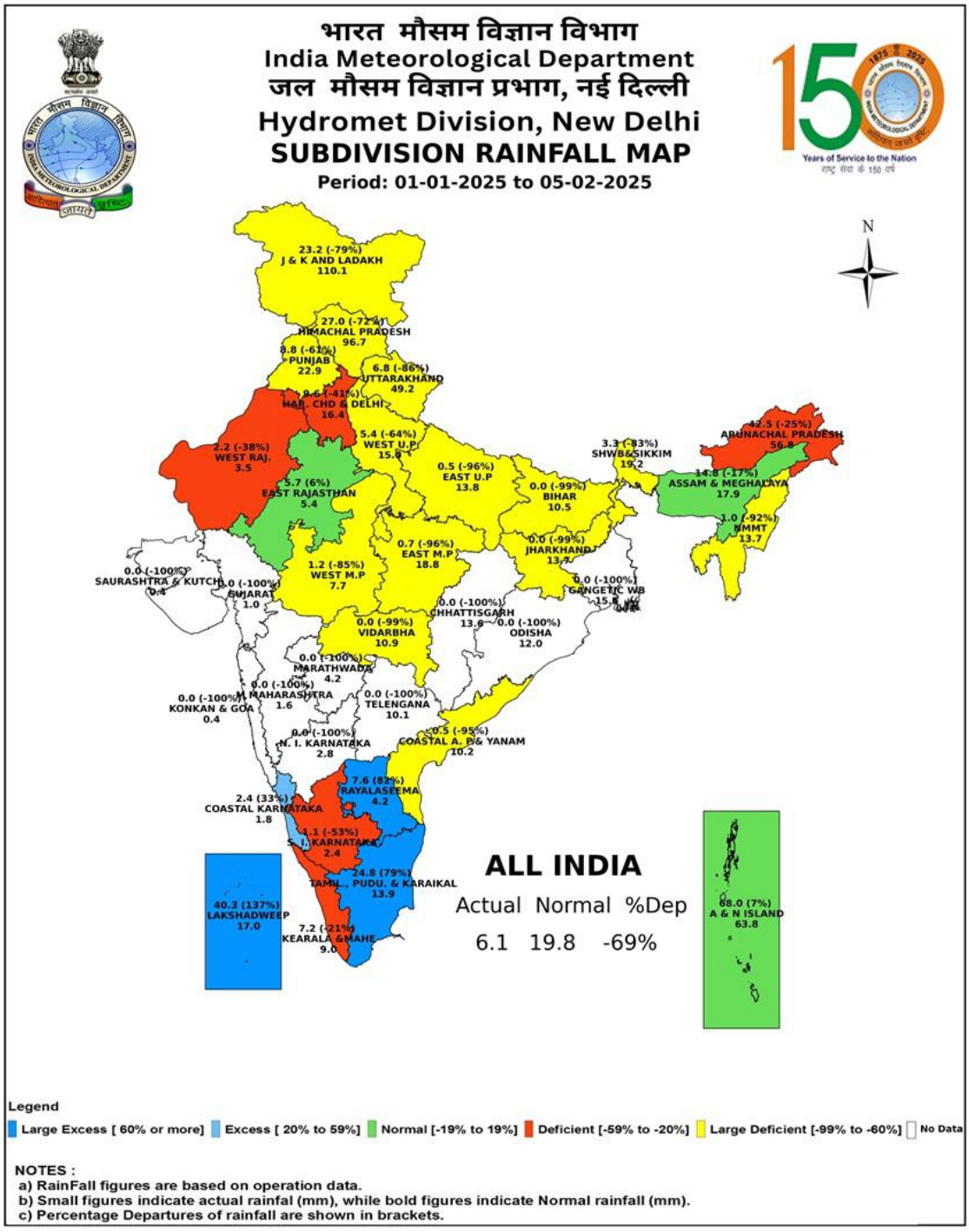
India Meteorological Department
जल मौसम विज्ञान प्रभाग, नई दिल्ली
Hydromet Division, New Delhi
SUBDIVISION RAINFALL MAP
Week: 30-01-2025 to 05-02-2025
Years of Service to the Nation
N
11.7 (-46%)
J & K AND LADAKH
21.9
12.7 (-28%)
HIMACHAL PRADESH
17.6
0.5 (-90%)
PUNJAB
4.6
1.4 (-85%)
UTTARAKHAND
9.5
0.2 (-94%)
HAR. CHD & DELHI
2.8
0.2 (-91%)
WEST U.P
2.8
0.0 (-100%)
WEST RAJ.
0.7
0.1 (-90%)
EAST RAJASTHAN
0.9
0.0 (-100%)
EAST U.P
2.2
0.0 (-100%)
BIHAR
1.7
0.7 (-87%)
SHWB&SIKKIM
5.1
13.3 (-19%)
ARUNACHAL PRADESH
16.5
6.6 (25%)
ASSAM & MEGHALAYA
5.3
0.1 (-98%)
NMMT
4.3
0.0 (-100%)
JHARKHAND
3.4
0.0 (-100%)
EAST M.P
3.9
0.0 (-99%)
WEST M.P
1.5
0.0 (-100%)
SAURASHTRA & KUTCH
0.1
0.0 (-100%)
GUJARAT
0.1
0.0 (-100%)
GANGETIC WB
3.9
0.0 (-100%)
CHHATTISGARH
2.8
0.0 (-100%)
ODISHA
2.2
0.0 (-100%)
VIDARBHA
2.8
0.0 (-100%)
MARATHWADA
0.5
0.0 (-100%)
M.MAHARASHTRA
0.2
0.0 (-100%)
KONKAN & GOA
0.0
0.0 (-100%)
TELENGANA
1.4
0.0 (-100%)
N. I. KARNATAKA
0.3
0.0 (-100%)
COASTAL A. R& YANAM
0.7
0.0 (-100%)
RAYALASEEMA
0.3
0.0 (-100%)
COASTAL KARNATAKA
0.2
0.0 (-100%)
S. I. KARNATAKA
0.4
0.5 (-75%)
TAMIL., PUDU. & KARAIKAL
2.0
0.0 (-100%)
LAKSHADWEEP
2.2
1.6 (-25%)
KEARALA &MAHE
2.2
ALL INDIA
Actual Normal %Dep
1.7 4.0 -59%
0.0 (-31%)
A & N ISLAND
10.2
Legend
Large Excess [60% or more]
Excess [20% to 59%]
Normal [-19% to 19%]
Deficient [-59% to -20%]
Large Deficient [-99% to -60%]
No Data
NOTES :
a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

Annexure II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SUBDIVISION RAINFALL MAP
Period: 01-01-2025 to 05-02-2025
Years of Service to the Nation
N
23.2 (-79%) J & K AND LADAKH 110.1
27.0 (-72%) HIMACHAL PRADESH 96.7
8.8 (-61%) PUNJAB 22.9
6.8 (-86%) UTTARAKHAND 49.2
0.6 (-41%) HAR. CHD & DELHI 16.4
5.4 (-64%) WEST U.P 15.0
2.2 (-38%) WEST RAJ. 3.5
5.7 (6%) EAST RAJASTHAN 5.4
0.5 (-96%) EAST U.P 13.8
0.0 (-99%) BIHAR 10.5
3.3 (-83%) SHWB&SIKKIM 19.2
42.5 (-25%) ARUNACHAL PRADESH 56.8
14.8 (-17%) ASSAM & MEGHALAYA 17.9
1.0 (-92%) NMMT 13.7
0.7 (-96%) EAST M.P 18.8
0.0 (-99%) JHARKHAND 13.7
1.2 (-85%) WEST M.P 7.7
0.0 (-100%) SAURASHTRA & KUTCH 0.4
0.0 (-100%) GUJARAT 1.0
0.0 (-100%) GANGETIC WB 15.8
0.0 (-100%) CHHATTISGARH 13.6
0.0 (-100%) ODISHA 12.0
0.0 (-99%) VIDARBHA 10.9
0.0 (-100%) MARATHWADA 4.2
0.0 (-100%) M.MAHARASHTRA 1.6
0.0 (-100%) KONKAN & GOA 0.4
0.0 (-100%) TELENGANA 10.1
0.0 (-100%) N. I. KARNATAKA 2.8
0.5 (-95%) COASTAL A. P& YANAM 10.2
7.6 (82%) RAYALASEEMA 4.2
2.4 (33%) COASTAL KARNATAKA 1.8
1.1 (-53%) S. KARNATAKA 2.4
24.8 (79%) TAMIL., PUDU. & KARAIKAL 13.9
40.3 (137%) LAKSHADWEEP 17.0
7.2 (-21%) KEARALA &MAHE 9.0
ALL INDIA
Actual Normal %Dep
6.1 19.8 -69%
68.0 (7%) A & N ISLAND 63.8
Legend
Large Excess [60% or more]
Excess [20% to 59%]
Normal [-19% to 19%]
Deficient [-59% to -20%]
Large Deficient [-99% to -60%]
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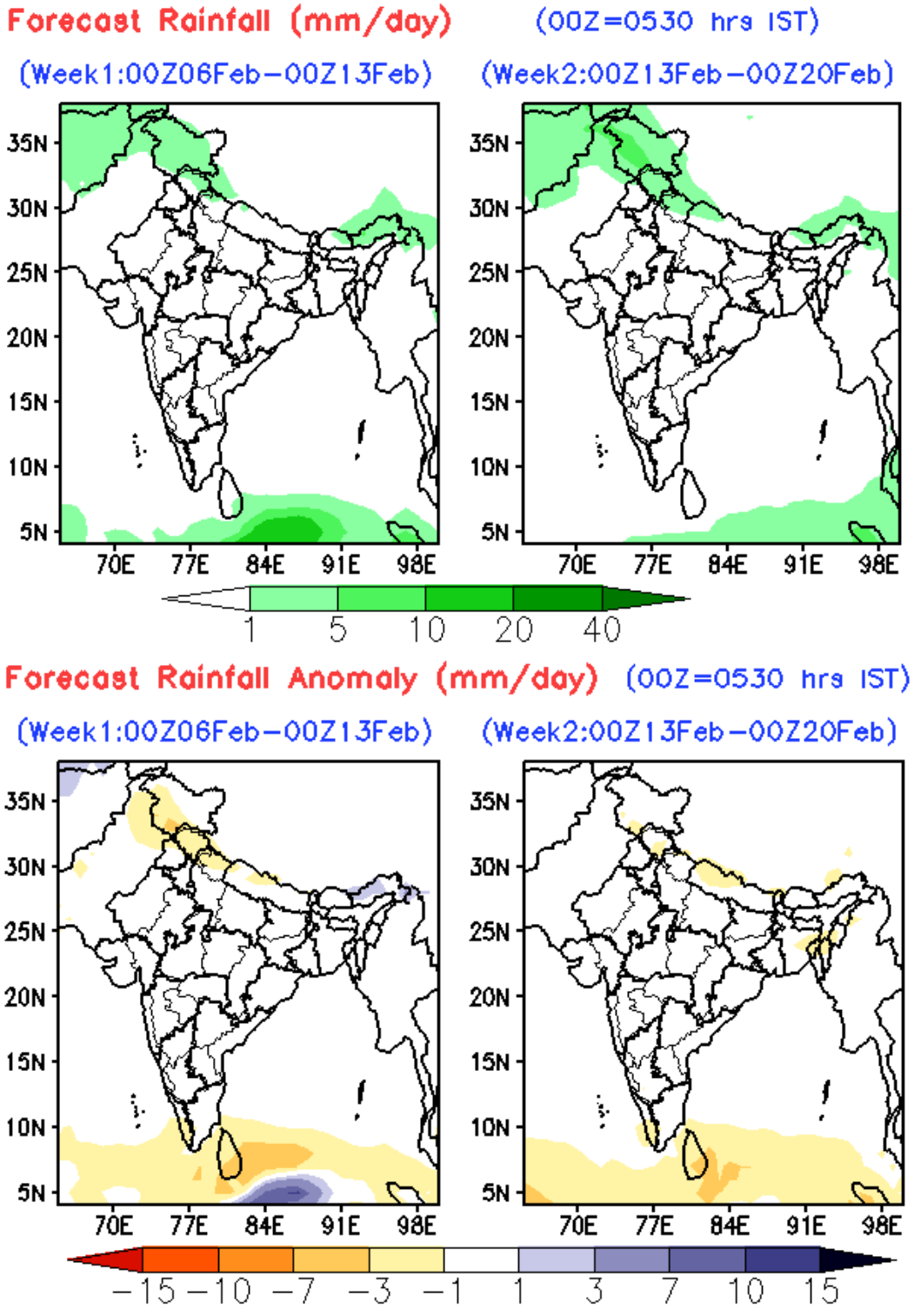
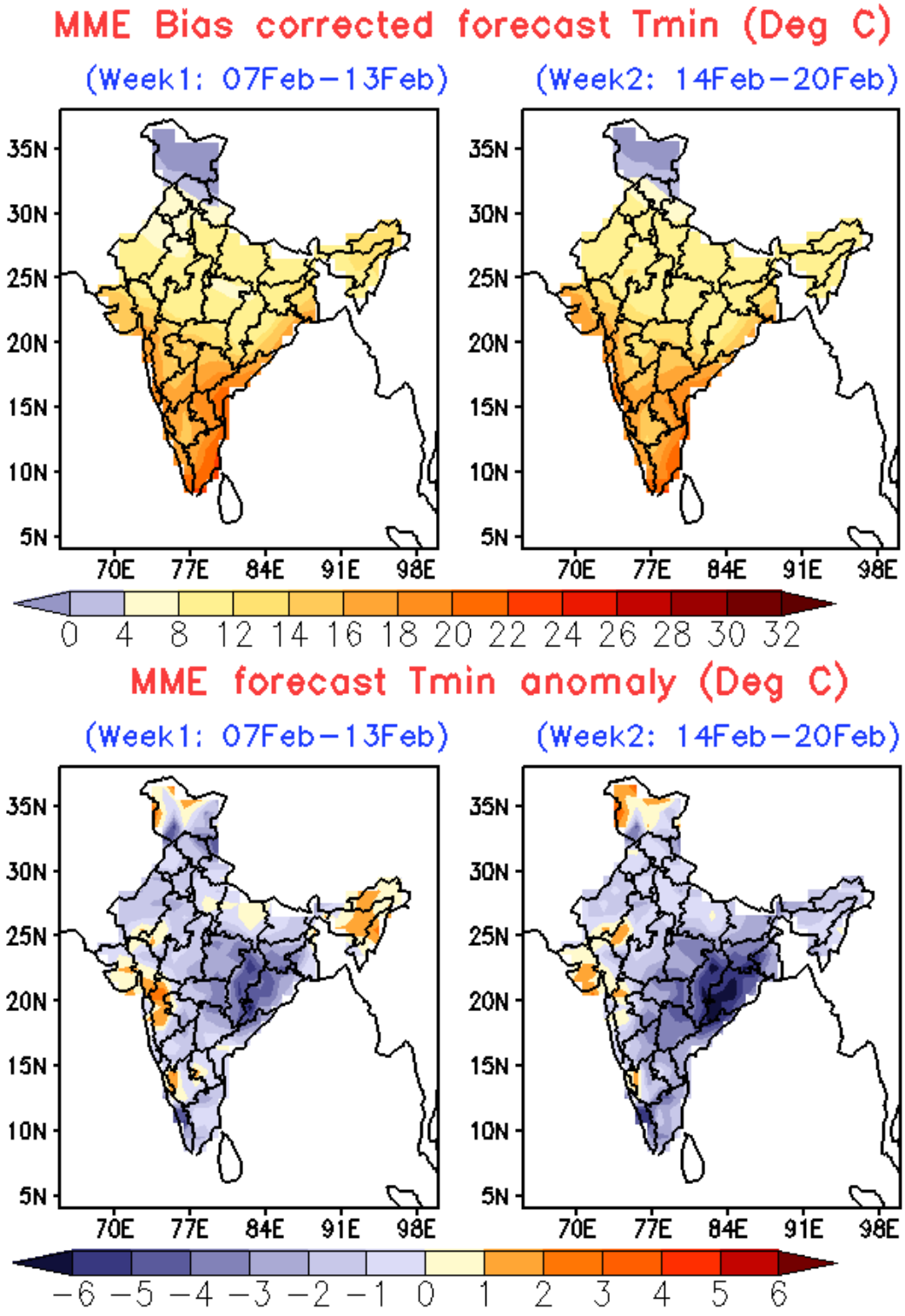


Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME



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

Annexure V

Cold Wave forecast during next 2 weeks

EXTENDED RANGE OUTLOOK FOR COLDWAVE

Week 1: 07.02.2025-13.02.2025

Week2: 14.02.2025-20.02.2025

PROBABILITY OF COLD WAVE CONFIDENCE

LOW (1-33% PROBABILITY)

MODERATE (34-67% PROBABILITY)

HIGH (68-100% PROBABILITY)