Government of India

Earth System Science Organization

Ministry of Earth Sciences

India Meteorological Department

Press Release: Dated: 13th March, 2025

Subject: Current Weather Status and Extended range Forecast for the next two weeks (13th March to 26th March 2025)

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

- **A Western Disturbance** moved across extreme northern parts of India during 9-12 March and caused light to moderate rainfall/snowfall over Jammu & Kashmir, Himachal Pradesh during 10th – 12th March, and Uttarakhand on 11th & 12th March.
- **Movement of a trough in easterly towards south Tamil Nadu coasts caused Heavy to very heavy rainfall** over South Tamil Nadu on 12th March.
- **Thunderstorm with lightning** recorded at isolated places over Arunachal Pradesh, east Assam on 6th March, Himachal Pradesh on 11th March, Tamil Nadu Puducherry & Karaikal on 11th & 12th March, Uttarakhand, Lakshadweep on 12th March**.**
- **Strong wind with the order of 20-30 kmph gusting to 40 kmph was prevailed during 5-6 March 2025 across western plains of India across IGP region.**
- **Severe Heat Wave to heat wave** conditions recorded at isolated places over Saurashtra & Kutch during 10-12 March, and Gujarat region on 12th March. **Heat Wave** conditions observed at isolated places over Saurashtra & Kutch on 10th March.
- **Weekly Average Minimum temperature** was below normal by 1-3°C over parts of north, central and eastern India, and nearly normal over remaining parts of the country during the first half of the week. It was above normal by 1-3°C over parts of northwest and north India, and nearly normal over remaining parts of the country during the second half of the week. **Weekly Average Maximum temperature** was above normal by 2-4°C over western and central India, and near normal over remaining parts of the country during the week.
- **Temperature Scenario:** The lowest minimum temperature of **7.6°C** had been recorded at **Karnal (Haryana)** on **06 March, 2025** and the highest maximum temperature of **42.4°C** had been recorded at **Bhuj Rudramata (Saurastra & Kutch)** on **11 March, 2025** over the plains of the country during the week.

❖ **Analysis of weekly overall rainfall distribution during the week-ending on 05th March and Pre-Monsoon Season's Rainfall Scenario (01.03.2025 to 12.03.2025):** The country as a whole, the weekly cumulative All India Rainfall (for 06th to 12th March 2025) in % departure from its long period average (LPA) is -68%. All India Seasonal cumulative rainfall % departure during this year's Pre-Monsoon Season Rainfall (01st to 12th March 2025) is -34%. 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		
	06.03.2025 TO 12.03.2025			01.03.2025 TO 12.03.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	2.6	10.6	-75%	6.8	17.3	-61%
NORTHWEST INDIA	2.7	11.0	-76%	16.0	19.7	-19%
CENTRAL INDIA	0.0	2.3	-100%	0.0	4.0	-99%
SOUTH PENINSULA	4.4	4.1	+8%	7.2	6.0	+20%
THE COUNTRY AS A WHOLE	2.1	6.6	-68%	7.4	11.3	-34%

2. Large scale features:

❖ Over the equatorial Pacific Ocean, sea surface temperatures (SSTs) are below average in most of the central and east-central Pacific Ocean. The weak La Niña conditions are present over Pacific and are expected to persist through the February to March (FMA) season. 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. 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 turn to negative IOD conditions for a short period of time.

❖ The Madden Julian Oscillation (MJO) index is currently in Phase 2 with an amplitude > 1. It is likely to migrate to Phase 3 by the middle of Week 1 with amplitude becoming < 1. During the latter portion of Week 1, it is likely to propagate to Phase 4 and then to Phase 5 with amplitude remaining < 1. By the start of Week 2, it is likely to move to Phase 6, and then further to Phase 7 with amplitude remaining < 1. It will remain in Phase 7 for the remaining days of Week 2.

3. Forecast for the next two weeks

Weather systems & associated Precipitation during Week 1 (13 to 19 March, 2025) and Week 2 (20 to 26 March, 2025)

Weather systems & associated Precipitation during Week 1 (13 to 19 March, 2025):

- A **Western Disturbance** seen as a cyclonic circulation over Afghanistan in lower & middle tropospheric levels. A cyclonic circulation lies over southwest Rajasthan at lower tropospheric levels. Under the influence of these systems;
  - ✓ **Fairly widespread to widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 13th-16th; **Scattered to fairly widespread light/moderate rainfall/snowfall accompanied with thunderstorm & lightning** likely over Uttarakhand during 13th-16th March and decrease in intensity thereafter.
  - ✓ **Isolated light/moderate rainfall accompanied with thunderstorm & lightning** likely over Punjab,Haryana, West Uttar Pradesh and Rajasthan during 13th-16th; East Uttar Pradesh on 15th& 16th March.
  - ✓ Isolated **heavy rainfall/snowfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 14th& 15th; Himachal Pradesh 15th & 16th and Uttarakhand on 16th March.
- A **Cyclonic Circulation** lies over East Bangladesh and a trough in westerly runs roughly along Long. 88°E to the north of Lat. 21°N in lower tropospheric levels. Under the influence of these systems;
  - ✓ **Fairly widespread to widespread light/moderate rainfall/snowfall** accompaniedwith **thunderstorm & lightning** likely over Arunachal Pradesh and s**cattered to fairly widespread** light/moderate rainfall/snowfall accompanied with **thunderstorm, lightning & gusty winds (speed 40-50 kmph)** likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 13th-17th March.
  - ✓ Isolated **heavy rainfall/snowfall** very likely over Arunachal Pradesh during 13th-14th, 16th-17thand over northeast & central Assam on 13th March.
  - ✓ Isolated hailstorms also likely over northeast & central Assam and Nagaland, Manipur, Mizoram & Tripura on 14th March.
- No significant weather likely over rest parts of the country during the week.

Precipitation for week 2 (20 to 26 March, 2025):

- Under the influence of western disturbances, scattered to fairly widespread rainfall/snowfall is likely over Western Himalayan Region during some days of the week.
- Light/moderate isolated to scattered rainfall is also likely over east & northeast India and south Peninsular & adjoining central India during some to many days of the week.
- Overall, rainfall is likely to be above normal over south Peninsular India & adjoining central India and below normal over rest parts of the country during the week.

Temperature forecast & heat wave warning for Week 1 (13 to 19 March, 2025) and Week 2 (20 to 26 March, 2025)

Temperature forecast & heat wave warning for Week 1 (13 to 19 March, 2025):

- **Maximum Temperature Departures (as on 12-03-2025):** Maximum temperatures were **markedly above normal (5.1°C or more)**at many places over Saurashtra & Kutch; at a few places over Madhya Pradesh and Konkan & Goa; at isolated places over Gujarat Region and Uttarakhand; **appreciably above normal (3.1°C to 5.0°C)** at many places Delhi and Vidarbha; at a few places over East Uttar Pradesh, Rayalaseema, Odisha and Gangetic West Bengal; at isolated places over West Uttar Pradesh, Punjab, Chhattisgarh, Madhya Maharashtra and Marathwada; **above normal (1.6°C to 3.0°C)** at a few places over Bihar, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Telangana. These were below normal or near normal over rest parts of the country**. Yesterday, the highest maximum temperature of 42.1°C was reported at Rajkot (Saurashtra & Kutch) over the country.**

Forecast of temperature:

Maximum temperature:

- No significant change in maximum temperatures likely overplains of Northwest India during next 24 hours and fall by 2-3°C thereafter.
- No significant change in maximum temperatures likely overcentralIndia during next 2 days and fall by 2-3°C thereafter.
- Gradual fall in maximum temperatures by 2-4°C likely over many parts of West India during the week.
- Gradual rise in maximum temperaturesby about 2-3°C likely over East India during 1st half of the week and no significant change thereafter.
- Gradual rise in maximum temperaturesby about 2-4°C likely over many parts of south peninsular India during the week.

Heat Wave and Hot & Humid weather warnings:

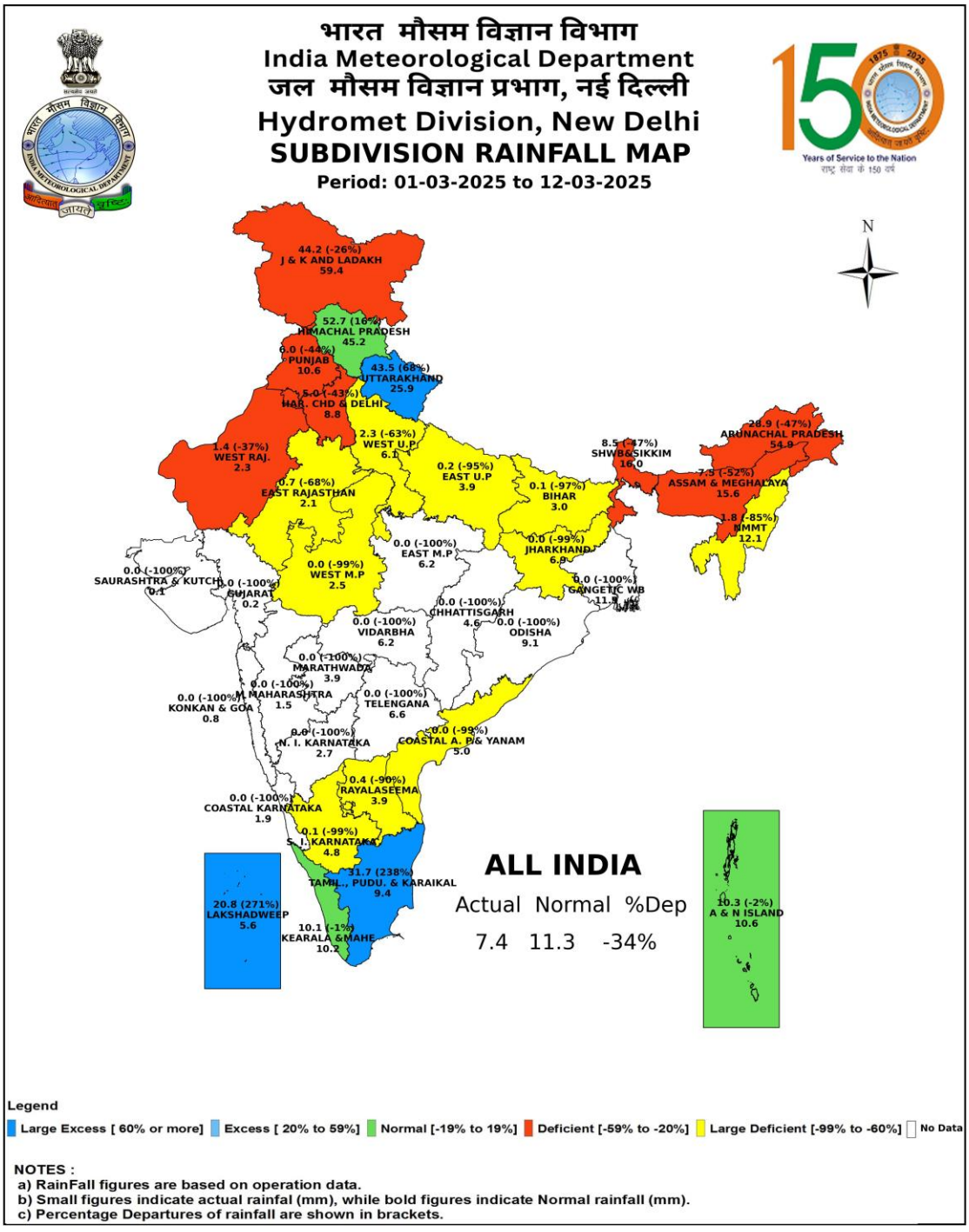
- **Heat wave conditions** likely at isolated places over Gujarat State and southwest Rajasthan on 13th; Vidarbha, Chhattisgarh on 13th & 14th; Odisha during 13th-17th; Jharkhand during 14th-17th and Gangetic West Bengal on 15-17th March, 2025.
- **Warm night conditions** very likely to prevail in isolated pockets overOdisha on 15th& 16thMarch.

Temperature forecast & heat wave warning for Week 2 (20 to 26 March, 2025):

- Maximum temperatures are likely to be above normal by 2-4°C over most parts of northwest India and by 2-3°C over most parts of East India; near normal over Gujarat and parts of northeast India.
- There is low to moderate probability of heat wave conditions over south Rajasthan,Gujarat and Odisha during some days of the week**.**
- Minimum temperatures are likely to be below normal or near normal over most parts of the country.

Annexure I

भारत मौसम विज्ञान विभाग
India Meteorological Department
जल मौसम विज्ञान प्रभाग, नई दिल्ली
Hydromet Division, New Delhi
SUBDIVISION RAINFALL MAP
Week: 06-03-2025 to 12-03-2025
Years of Service to the Nation
राष्ट्र सेवा के 150 वर्ष
N
11.2 (-67%)
J & K AND LADAKH
34.0
3.0 (-88%)
HIMACHAL PRADESH
24.7
0.0 (-99%)
PUNJAB
5.7
0.4 (-97%)
UTTARAKHAND
13.3
0.0 (-100%)
HAR. CHD & DELHI
4.6
0.0 (-100%)
WEST RAJ.
1.2
0.0 (-100%)
WEST U.P
3.6
0.0 (-100%)
EAST U.P
2.0
0.0 (-100%)
EAST RAJASTHAN
1.0
0.0 (-100%)
BIHAR
1.5
6.0 (-39%)
SHWB&SIKKIM
9.9
12.8 (-62%)
ARUNACHAL PRADESH
33.5
1.3 (-87%)
ASSAM & MEGHALAYA
10.0
0.1 (-98%)
NMMT
7.1
0.0 (-100%)
JHARKHAND
3.8
0.0 (-100%)
EAST M.P
3.5
0.0 (-100%)
WEST M.P
1.3
0.0 (-100%)
SAURASHTRA & KUTCH
0.0
0.0 (-100%)
GUJARAT
0.1
6.0 (-100%)
GANGETIC WB
7.9
0.0 (-100%)
CHHATTISGARH
2.5
0.0 (-100%)
ODISHA
5.6
0.0 (-100%)
VIDARBHA
3.4
0.0 (-100%)
MARATHWADA
2.5
0.0 (-100%)
MAHARASHTRA
0.7
0.0 (-100%)
KONKAN & GOA
0.2
0.0 (-100%)
TELENGANA
4.4
0.0 (-100%)
N. I. KARNATAKA
1.9
0.0 (-99%)
COASTAL A. P& YANAM
3.7
0.4 (-86%)
RAYALASEEMA
2.8
0.0 (-100%)
COASTAL KARNATAKA
1.4
0.1 (-99%)
S. I. KARNATAKA
3.5
19.9 (227%)
TAMIL., PUDU. & KARAIKAL
6.1
6.7 (55%)
LAKSHADWEEP
4.3
3.4 (-51%)
KEARALA &MAHE
7.0
9.9 (37%)
A & N ISLAND
7.2
ALL INDIA
Actual Normal %Dep
2.1 6.6 -68%
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.


भारत मौसम विज्ञान विभाग
India Meteorological Department
जल मौसम विज्ञान प्रभाग, नई दिल्ली
Hydromet Division, New Delhi
SUBDIVISION RAINFALL MAP
Period: 01-03-2025 to 12-03-2025
Years of Service to the Nation
राष्ट्र सेवा के 150 वर्ष
N
44.2 (-26%)
J & K AND LADAKH
59.4
52.7 (16%)
HIMACHAL PRADESH
45.2
6.0 (-44%)
PUNJAB
10.6
43.5 (68%)
UTTARAKHAND
25.9
5.0 (-43%)
HAR. CHD & DELHI
8.8
1.4 (-37%)
WEST RAJ.
2.3
2.3 (-63%)
WEST U.P
6.1
0.7 (-68%)
EAST RAJASTHAN
2.1
0.2 (-95%)
EAST U.P
3.9
0.1 (-97%)
BIHAR
3.0
8.5 (-47%)
SHWB&SIKKIM
16.0
28.9 (-47%)
ARUNACHAL PRADESH
54.9
7.9 (-52%)
ASSAM & MEGHALAYA
15.6
1.8 (-85%)
NMMT
12.1
0.0 (-100%)
EAST M.P
6.2
0.0 (-99%)
JHARKHAND
6.9
0.0 (-100%)
SAURASHTRA & KUTCH
0.1
0.0 (-100%)
GUJARAT
0.2
0.0 (-99%)
WEST M.P
2.5
0.0 (-100%)
GANGETIC WB
11.8
0.0 (-100%)
CHHATTISGARH
4.6
0.0 (-100%)
ODISHA
9.1
0.0 (-100%)
VIDARBHA
6.2
0.0 (-100%)
MARATHWADA
3.9
0.0 (-100%)
M. MAHARASHTRA
1.5
0.0 (-100%)
KONKAN & GOA
0.8
0.0 (-100%)
TELENGANA
6.6
0.0 (-100%)
N. I. KARNATAKA
2.7
0.0 (-99%)
COASTAL A. P& YANAM
5.0
0.4 (-90%)
RAYALASEEMA
3.9
0.0 (-100%)
COASTAL KARNATAKA
1.9
0.1 (-99%)
S. I. KARNATAKA
4.8
31.7 (238%)
TAMIL., PUDU. & KARAIKAL
9.4
20.8 (271%)
LAKSHADWEEP
5.6
10.1 (-1%)
KEARALA & MAHE
10.2
ALL INDIA
Actual Normal %Dep
7.4 11.3 -34%
10.3 (-2%)
A & N ISLAND
10.6
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 :
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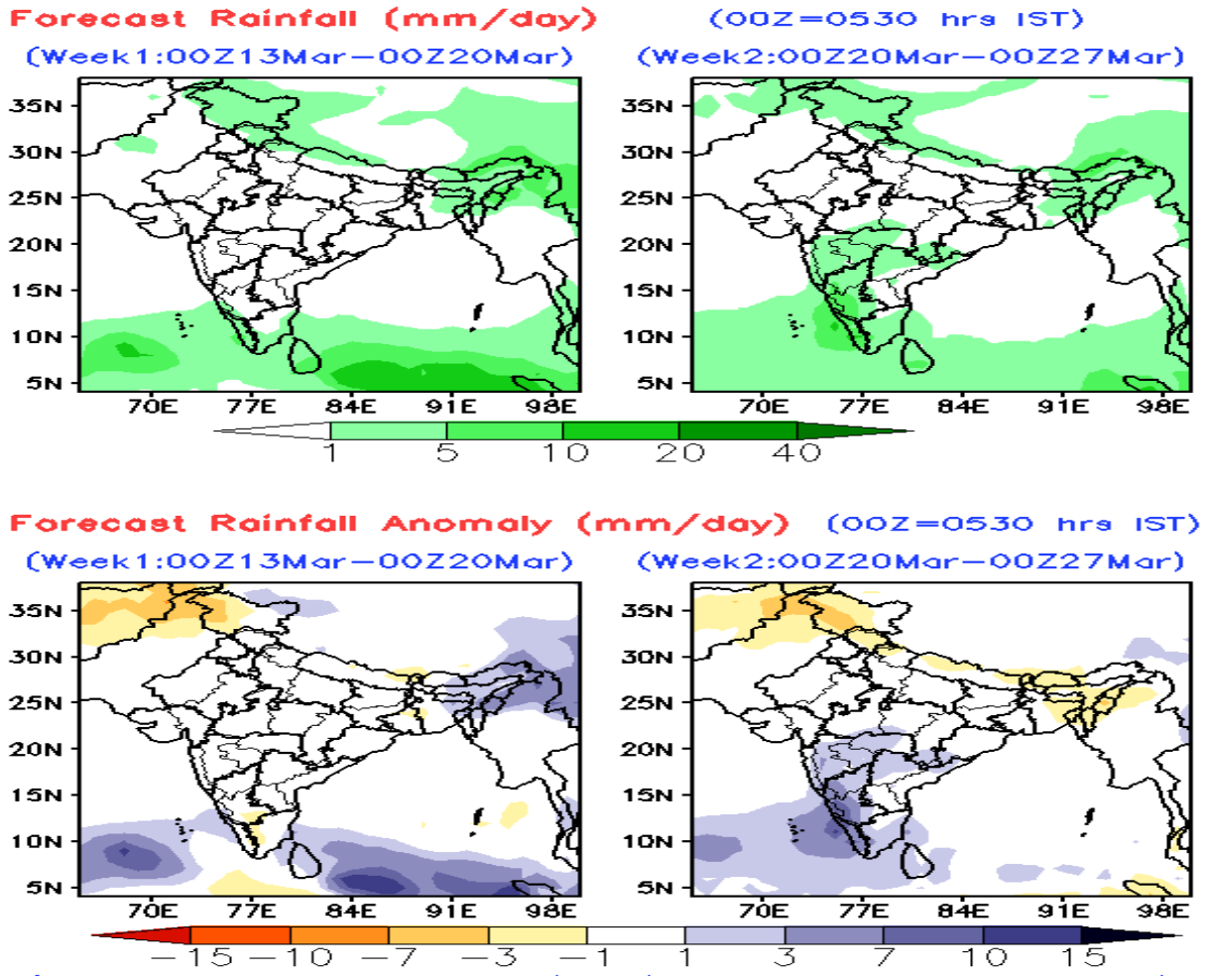
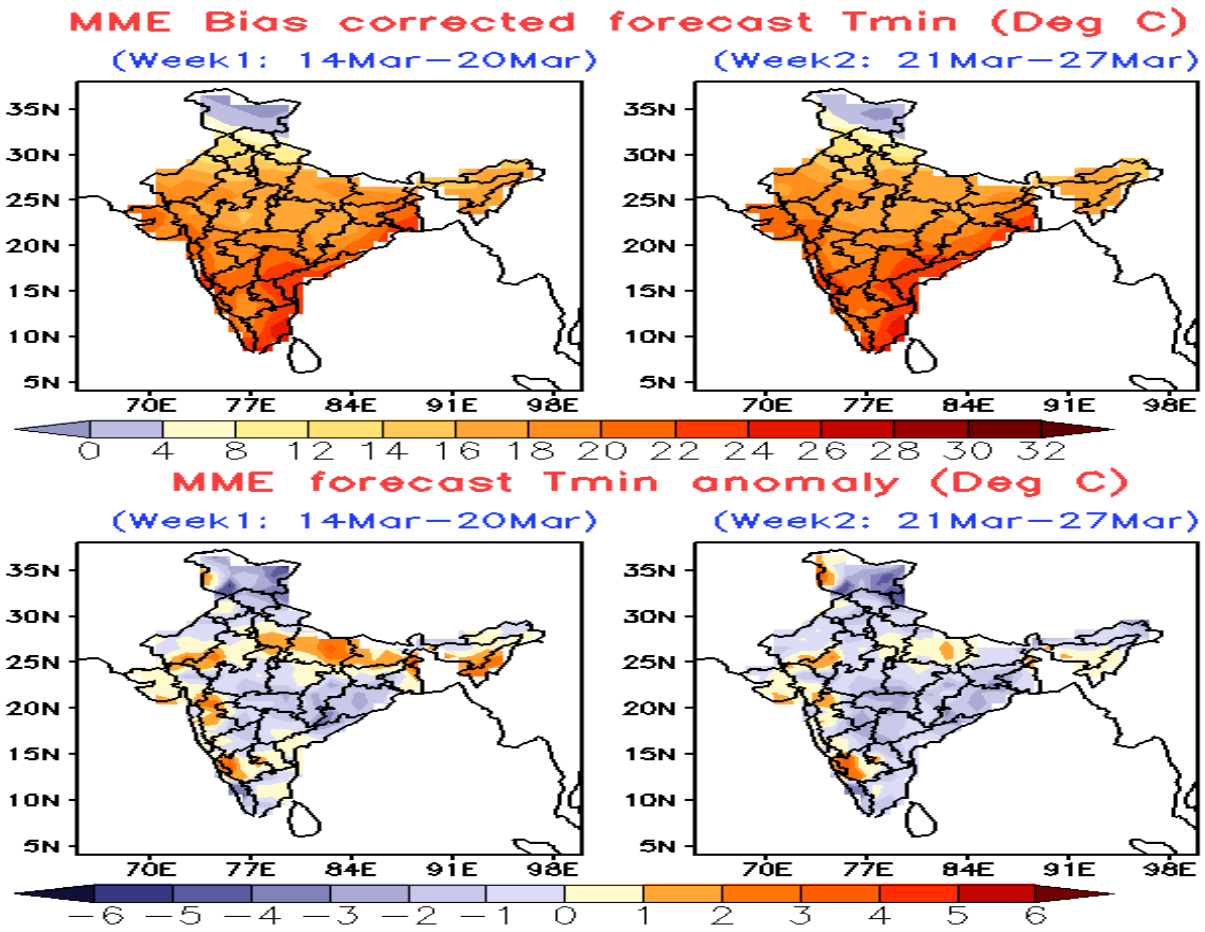


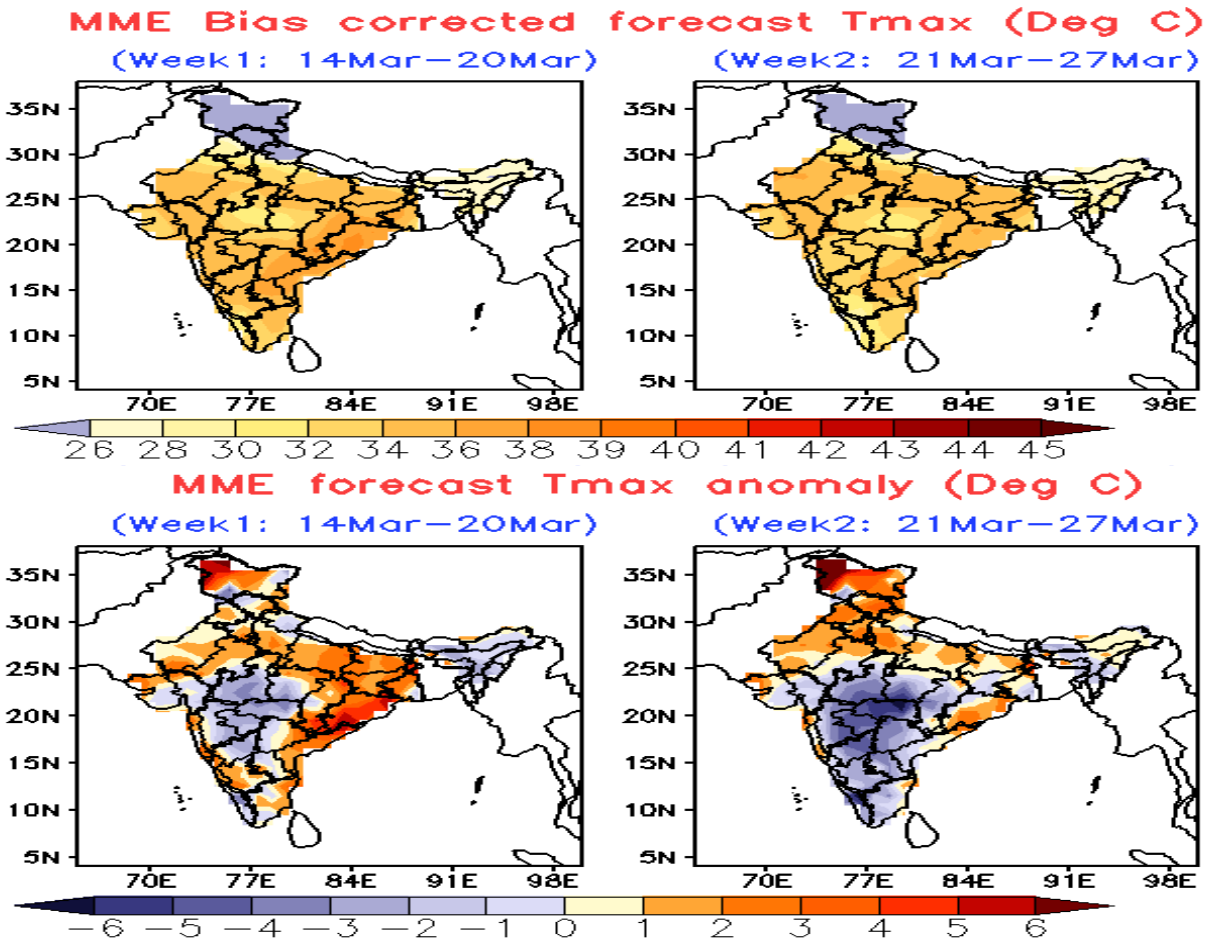
Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

Annexure IV



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

Annexure V



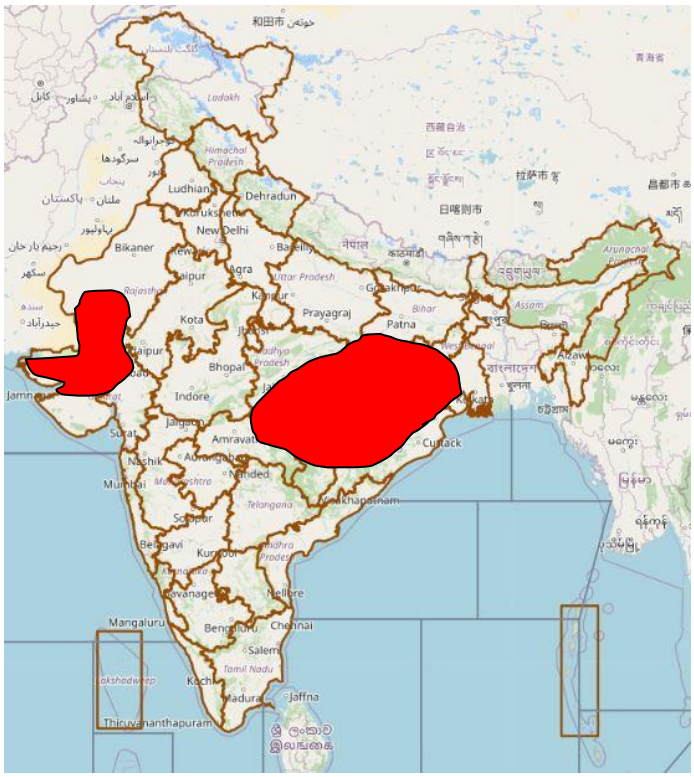
Extended range forecast of weekly distribution of Maximum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

Annexure VI

Heat Wave forecast during next 2 weeks

EXTENDED RANGE OUTLOOK FOR HEATWAVE

Wee1: 14.03.2025- 20.03.2025



Week2: 21.03.2025- 27.03.2025

PROBABILITY OF HEATWAVE **CONFIDENCE**

LOW (1-33% PROBABILITY)

MODERATE (34-67% PROBABILITY)

HIGH (68-100% PROBABILITY)

Heatwave warning Week 1 (07th to 13th March 2025):

- There is a high probability of Heat wave conditions at isolated places over Gujarat State and southwest Rajasthan on the 13th; Vidarbha, Chhattisgarh on the 13th & 14th; Odisha during the 13th-17th; Jharkhand during the 14th-17th and Gangetic West Bengal on 15-17th March 2025.
- Warm night conditions very likely to prevail in isolated pockets over Odisha on 15th & 16th March.

Heat wave warning Week 2 (14th to 20th March 2025):

- There is a low to moderate probability of heatwave conditions over interior Odisha & over south Rajasthan and north Gujarat during some days of week 2.