

**UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT**



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Date: 21-01-2025

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	18.01.2025	19.01.2025	20.01.2025	21.01.2025
Rainfall (mm)	0	0	0	0
Max. Temp. (°C)	30.6	30.3	28.5	30.9
Min. Temp. (°C)	13.2	20.4	17.9	13.2
Sky condition (Octas)	-	-	-	-
Relative humidity (%) 0830 hours	99	87	97	97
Relative humidity (%) 1730 hours	-	-	-	-
Wind Speed (km/h)	-	-	-	-
Wind Direction	-	-	-	-

Weather forecast for the next five days (From 22-01-2025 to 26-01-2025)

Parameter	22.01.2025	23.01.2025	24.01.2025	25.01.2025	26.01.2025
Rainfall (mm)	0	0	0	0	0
Max. Temp. (°C)	29	29.2	29.2	29.6	29.7
Min. Temp. (°C)	15.4	15.6	16.5	15.4	15.5
Sky condition (Octas)	0	1	3	3	4
Relative humidity (%) 0830 hours	81	90	95	88	68
Relative humidity (%) 1730 hours	27	30	38	28	17
Wind Speed (kmph)	2.2	3.2	4.7	5.2	3.8
Wind Direction	81	117	123	115	107

Forecast Summary

As forecast received from IMD, partially cloudy sky with **no rainfall** may be expected from 22.01.2025 to 26.01.2025 in Chamarajanagara district. The day temperature is expected to be 29°C to 29.7°C & night temperature is expected 15.4°C to 16.5°C. The relative humidity in the morning hours is expected to be 68% to 90% & afternoon relative humidity is expected to be in the range of 17-38 %. Wind speed expected to be 2.2-5.2 km/ hr.

SMS Advisory

Farmers who have not yet harvested paddy are advised to proceed with harvesting as there is very light rainfall expected in the next 5 days.

Recommendations to the farmers:-

Crop	Pest/Disease	Damage symptoms	Control measures
General Advisory:			
<ul style="list-style-type: none"> • Optimal Moisture Levels: Ensure cereals are dried to 12%, pulses to 9-10%, and oilseeds to 7-8% moisture content before storage. • Storage Practices: Use moisture-proof containers or jute bags lined with polythene. Keep storage spaces clean, ventilated, and elevated to prevent pest infestation and mold growth. • Pest and Quality Management: Regularly inspect stored produce for pests or mold. Use natural repellents like neem leaves or fumigants (with caution) for long-term protection. 			

Weather based advisory

Crop	Stage	Advisory
Paddy	Harvest stage	<ul style="list-style-type: none"> - Harvest the crop when 80-85% of the grains turn golden yellow. - Ensure threshing and drying are done under proper conditions to maintain grain quality.
Maize	Vegetative stage	<ul style="list-style-type: none"> - Provide light irrigation to maintain soil moisture. - Monitor for pests like fall armyworm and apply recommended measures if infestation is noticed.
Tomato	Vegetative stage	<ul style="list-style-type: none"> - Irrigate the crop to prevent moisture stress. - Monitor for pests like aphids and diseases like early blight; apply neem oil (1%) as a preventive measure.
Cabbage, Cauliflower	Head formation stage	<ul style="list-style-type: none"> - Provide light irrigation to promote uniform head formation. - Monitor for pests like diamondback moth; apply <i>Bacillus thuringiensis</i> (Bt) if infestation occurs.
Bean, Field Bean	Pod formation stage	<ul style="list-style-type: none"> - Irrigate the crop to ensure proper pod development. - Apply neem oil (1%) to manage pod borers, if observed.
Chilli	Vegetative stage	<ul style="list-style-type: none"> - Provide irrigation at regular intervals to avoid water stress. - Monitor for pests like thrips and aphids; use yellow sticky traps for monitoring.
Banana	Fruit development stage	<ul style="list-style-type: none"> - Provide irrigation to maintain soil moisture. - Apply 200 g of muriate of potash per plant to improve fruit quality.
Vegetable crops	Various stages	<ul style="list-style-type: none"> - Schedule irrigation based on crop and soil conditions. - Regularly monitor for pest and disease outbreaks, especially during dry conditions.

Sugarcane trash management

<ul style="list-style-type: none"> ➤ Composting: Convert trash into organic manure. ➤ Mulching: Use as mulch to conserve moisture and suppress weeds. ➤ Bio-decomposer: Spray bio-decomposers (e.g., <i>Trichoderma</i>, <i>Pseudomonas</i>) on trash piles to accelerate decomposition. ➤ Soil Incorporation: Shred and plow trash into the soil. ➤ Vermicomposting: Use in vermiculture for nutrient-rich compost. ➤ Animal Bedding: Use for livestock, later as manure. ➤ Avoid Burning: Opt for sustainable disposal methods.

Category	Advisory
Livestock	
Shelter	Ensure proper insulation in sheds to maintain warmth. Use dry bedding materials like straw.

Water Supply	Provide clean and lukewarm water to maintain hydration and prevent cold stress.
Feed	Increase feed with higher energy content (e.g., grains or concentrates) to help animals cope with cold.
Vaccination	Administer vaccines for HS (Haemorrhagic Septicaemia) and FMD (Foot and Mouth Disease) .
Precautions	Regularly check for frostbite or cold stress symptoms (shivering, lethargy). Avoid sudden exposure to extreme cold.
Poultry	
Shelter	Maintain optimum temperatures in poultry sheds using heaters or bulbs. Ensure proper ventilation to avoid respiratory issues.
Water Supply	Provide warm drinking water and avoid freezing of water in cold conditions.
Feed	Provide high-energy feeds to help birds maintain body temperature. Supplement with vitamins (A, D, E).
Vaccination	Ensure vaccination against Newcastle Disease and Infectious Bursal Disease (IBD) .
Precautions	Avoid overcrowding to prevent stress and disease spread. Check for symptoms of respiratory infections.

Recommendation to farmers

Crop specific advisory:

Crop	Stage	Advisory
Maize fall army worm	Vegetative stage	<ul style="list-style-type: none"> ✓ Handpick and destroy egg masses and larvae. ✓ Use predators like <i>Trichogramma pretiosum</i> or parasitoids like <i>Telenomus remus</i>. ✓ Apply <i>Metarhizium anisopliae</i> or <i>Beauveria bassiana</i>. ✓ Spray Chlorantraniliprole 18.5% SC @ 0.4 ml/l or Emamectin benzoate 5% SG @ 0.4 g/l. Avoid excessive nitrogen application.
Coconut rugose whitefly	Vegetative stage	<ul style="list-style-type: none"> ✓ Prune and burn infested leaves. ✓ Release <i>Encarsia guadeloupae</i> parasitoids. Conserve natural predators like ladybird beetles (<i>Cryptolaemus montrouzieri</i>). ✓ Spray Neem oil 1% or use Acephate 75 SP @ 1 g/l as a spot application if infestation is severe.
Chilli leaf curl virus	Vegetative stage	<ul style="list-style-type: none"> ✓ Use virus-free seeds and resistant varieties. Maintain proper spacing and avoid overlapping. ✓ Remove and destroy infected plants. Use yellow sticky traps to monitor whitefly populations. ✓ Spray Imidacloprid 17.8% SL @ 0.5 ml/l or Thiamethoxam 25 WG @ 0.3 g/l.
Cabbage diamond back moth	Head stage	<ul style="list-style-type: none"> • Spray DDVP 76 EC. @0.5 ml./lit water in nursery. • 15 days before transplanting around the main field and every 25 rows of cabbage one row of mustard sowing, 15 to 20 days after cabbage planting another row of mustard sowing. Mustard as trap crop. Spray on mustard with 0.5 ml. DDVP in a lit. water. • During head formation, spray 5 per cent NSKE . • Birdpurchases may be provided to attract predatory birds.
Bean Pod borer	Pod formation stage	Spray 2.0 ml. Malathion 50 EC./ lit. water .
Tomato Early and late blight of tomato	Fruiting stage	For late blight of tomato 15 days prior to transplanting Trichoderma and Pseudomonas enriched compost may be incorporated to the soil. For early blight control spray 2.0 g. Mancozeb 75 WP OR

		2.0 g. Maneb OR 2.0 g. Metalaxyl- MZ 72WP. OR 2.0 g. Dimethomorph + polyram/lit. water. For control of late blight spray 2.0 g. Metalaxyl - MZ 72WP. OR 2.0 g. Fosetyl al 80 WP OR 2.0 g. Dimethomorph + polyram in a lit. water, 5 weeks after transplanting. Repeat the spray 7th, 9th and 11th weeks after transplanting. 200- 250 lit. spray solution required/acre/spray.
Banana Leaf spot (Cigatoka)	Fruit development	In endemic areas grow resistant banana variety - Sakkare bale. At the time of planting the rhizomes may treated with any one of the Fungicides /lit. water a)Propiconazole 25 EC.- 1.0 ml. b)Theiophenate methyl 70 Wdiv.- 1.0 g. c)Carbendazim 50 Wdiv.- 1.0 g. d)Metham Sodium (Vapom) - 1.0 g. In Mashy area provide drainage.
Field bean pod borer	Pod development	Dust 10 kg. Fenvalrate 0.4 D. OR Malathion 5 D. per acre during morning hours.

Block level weather forecast (From 22-01-2025 to 26-01-2025)

Chamarajanagara

Parameter	22.01.2025	23.01.2025	24.01.2025	25.01.2025	26.01.2025
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	27.2	27.6	25.4	27.6	29
Min.Temp (°C)	16.1	16.7	18.6	17.4	16
Sky condition (Octas)	2	5	6	6	2
Relative humidity (%) 0830 hours	94.6	93.4	95.6	89.8	70.6
Relative humidity (%) 1730 hours	40.1	41.4	61.4	43.4	24.6
Wind Speed (kmph)	7.4	6.5	5.7	4.7	5.8
Wind Direction	112.8	109.4	108.4	98.8	119.8

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Parameter	22.01.2025	23.01.2025	24.01.2025	25.01.2025	26.01.2025
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	27.6	28.2	26.1	28.5	29.2
Min.Temp (°C)	16	16.4	18.6	17.5	16.5
Sky condition (Octas)	2	6	6	4	2
Relative humidity (%) 0830 hours	89	90.3	92.3	86.8	65
Relative humidity (%) 1730 hours	37.6	38.4	56.4	43.8	23.6
Wind Speed (kmph)	11.2	9.1	9.8	5.8	5

Wind Direction	95.5	96.8	83.7	82.9	111
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Kollegala

Parameter	22.01.2025	23.01.2025	24.01.2025	25.01.2025	26.01.2025
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	28.8	29.2	27.5	29.2	30.1
Min.Temp (°C)	16.8	17.7	19.5	18.5	16.5
Sky condition (Octas)	2	5	7	6	3
Relative humidity (%) 0830 hours	94.5	89.8	93.2	85.8	72.9
Relative humidity (%) 1730 hours	35.2	35.2	54	34.7	22.6
Wind Speed (kmph)	5.7	5.9	5.4	4	1.8
Wind Direction	71.6	79.4	53.1	63.4	101.3

Yelandur

Parameter	22.01.2025	23.01.2025	24.01.2025	25.01.2025	26.01.2025
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	28.6	29.1	27.1	29	29.9
Min.Temp (°C)	16.7	17.6	19.4	18.4	16.2
Sky condition (Octas)	2	5	7	6	3
Relative humidity (%) 0830 hours	94.3	91.2	94.1	87	72.2
Relative humidity (%) 1730 hours	36	35.8	56.5	36	23.5
Wind Speed (kmph)	5.6	5.5	4.9	3.8	1.8
Wind Direction	75.1	78.7	54	73.3	101.3

Hanur

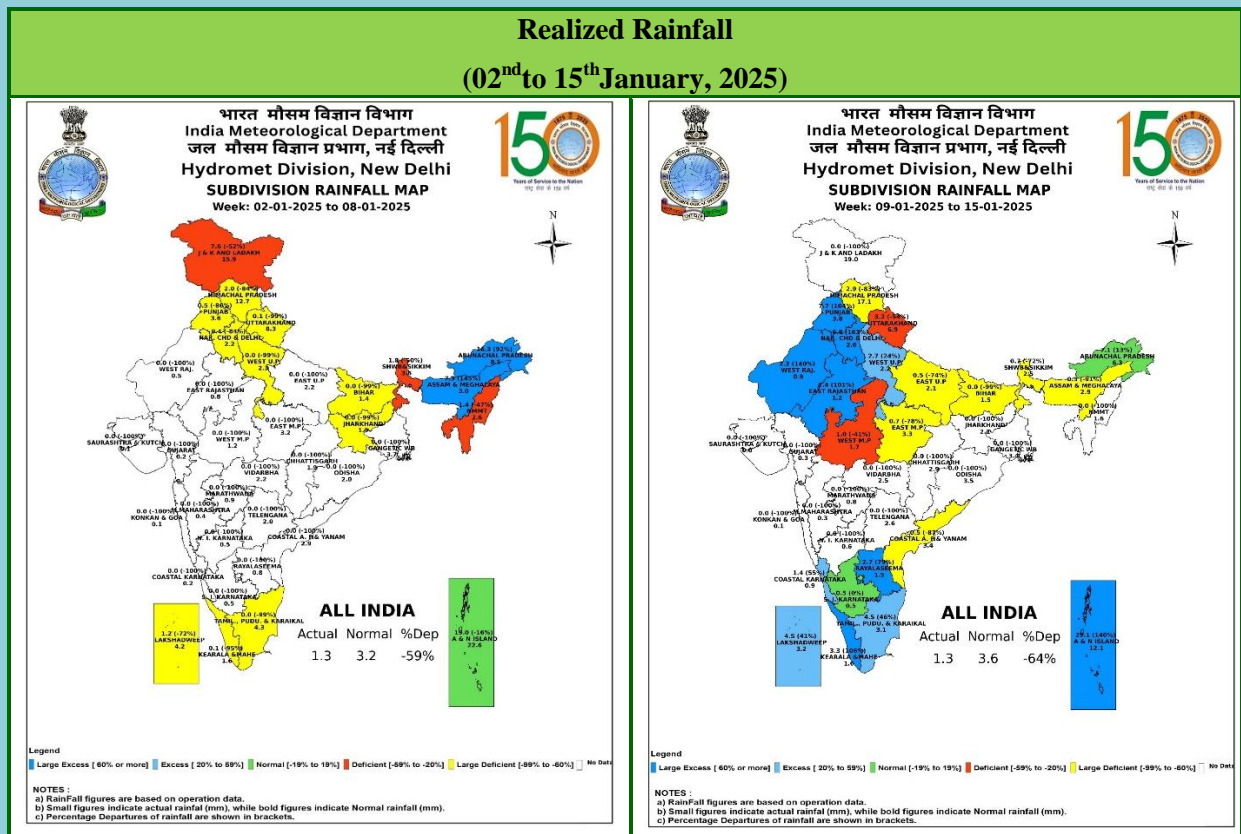
Parameter	22.01.2025	23.01.2025	24.01.2025	25.01.2025	26.01.2025
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	26	26.6	24.7	26.2	27.7
Min.Temp (°C)	15.8	16.8	18.4	17.1	16
Sky condition (Octas)	3	6	7	6	1
Relative humidity (%) 0830 hours	96.2	93.1	96.8	87.4	77.6
Relative humidity (%) 1730 hours	42.7	41.2	62.8	41.2	26
Wind Speed (kmph)	6	5.4	5.9	3.3	3.1
Wind Direction	107.4	97.6	100.6	102.5	125.6

- Download “**DAMINI**” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download”**MAUSAM**” APP for location specific forecast & warning &”**MEGHDOOT**” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

For any information farmers can contact **Dr. C. Ramachandra**, Senior Farm Superintendent/
Dr. Sumanth Kumar.G.V, Technical officer over phone No. 0821-259126/ 9535345814.

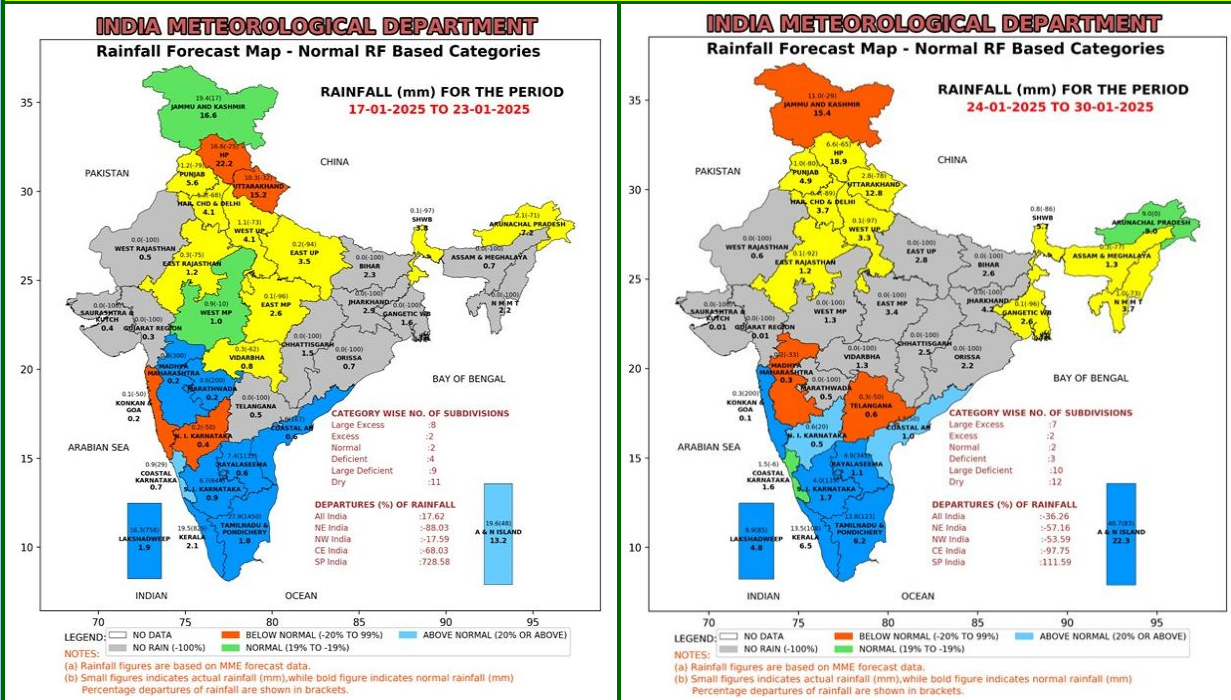
AMFU of IMD,
Naganahalli, Mysuru

वास्तविक वर्षा तथा विस्तारित अवधि पूर्वानुमान
Realized Rainfall and Extended Range Forecast
(वर्षा और तापमान)
(Rainfall and Temperature)



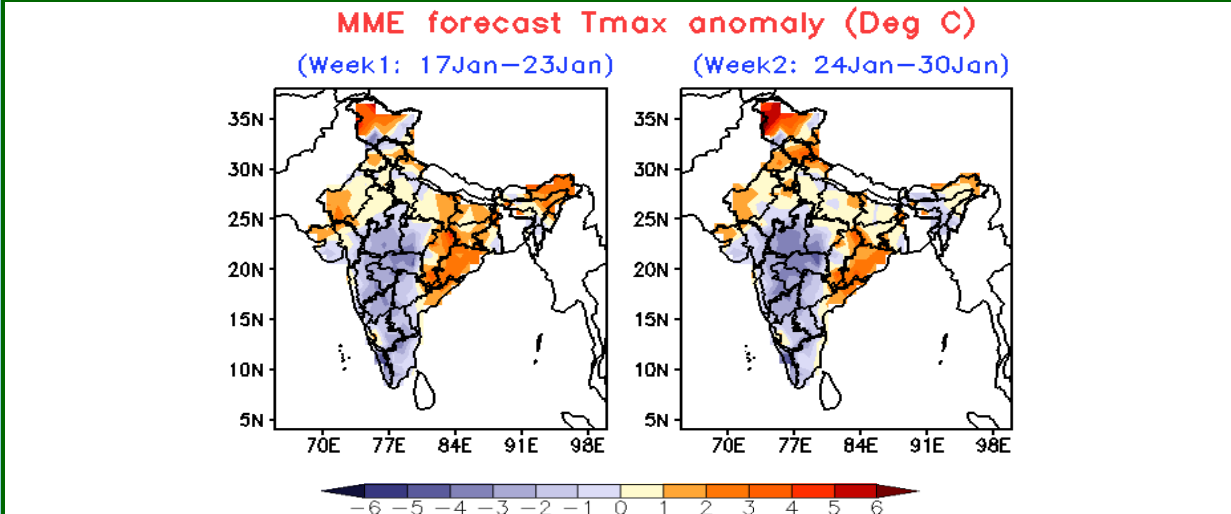
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 15th January, 2025) (17th to 30th January, 2025)



- **Week1(17.01.2025 to 23.01.2025):** Rainfall is likely to be above normal over Tamil Nadu, Kerala and some parts of Rayalaseema. Rainfall activity associated with western disturbances is likely over Jammu & Kashmir, Himachal Pradesh and some parts of Uttarakhand.
- **Week 2 (24.01.2025 to 30.01.2025):** Rainfall is likely to be above normal over some parts of Tamil Nadu and south Kerala. Rainfall activity associated with western disturbances is likely over Jammu & Kashmir and Himachal Pradesh.

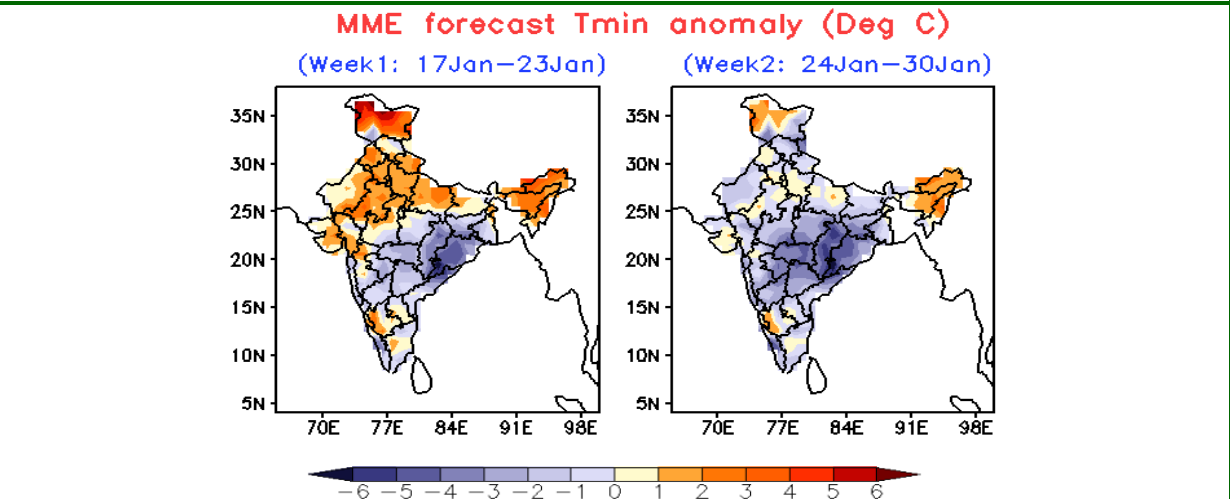
Maximum and Minimum temperature anomaly (°C) forecast for the next 2 weeks (IC- 15th January, 2025) (17th to 30th January, 2025)



Maximum Temperature (Tmax)

- **Week 1 (17.01.2025 to 23.01.2025):** Maximum temperature is likely to be below normal over Central India, many parts of West India and South India. However, it is likely to be above normal over East India, North West India, North East India and Chhattisgarh.

- **Week 2 (24.01.2025 to 30.01.2025):** Maximum temperature is likely to be below normal over Central India, many parts of West India and South India. However, it is likely to be above normal over East India, North West India, many parts of Chhattisgarh and Arunachal Pradesh.



Minimum Temperature (Tmin)

- **Week 1 (17.01.2025 to 23.01.2025):** Minimum temperature is likely to be below normal over many parts of Central India, East India, Coastal Andhra Pradesh and Kerala. However, it is likely to be above normal over North West India, North East India, Bihar, Gujarat, parts of South India and Madhya Maharashtra.
- **Week 2 (24.01.2025 to 30.01.2025):** Minimum temperature is likely to be below normal or close to normal over most parts of the country. It is likely to be above normal over North East India, some parts of Jammu & Kashmir and Karnataka.