

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



**GRAMIN KRISHI MAUSAM SEWA
AMFU, OFRS, NAGANAHALLI,
MYSURU - 570003**



Date:13-12-2024

AGRO-ADVISORY BULLETIN FOR MYSURU DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	10.12.2024	11.12.2024	12.12.2024	13.12.2024
Rainfall (mm)	0	0	0	0
Max. Temp. (°C)	31	30	27	27.2
Min. Temp. (°C)	19.5	19.4	20	20.2
Sky condition (Octas)	7	4	8	6
Relative humidity (%) 0830 hours	82	75	81	83
Relative humidity (%) 1730 hours	60	28	69	
Wind Speed (km/h)	4	6	6	4
Wind Direction	140	50	50	90

Weather forecast for the next five days (From 14-12-2024 to 18-12-2024)

Parameter	14.12.2024	15.12.2024	16.12.2024	17.12.2024	18.12.2024
Rainfall (mm)	1	0	0	0	6
Max. temp (°C)	25.7	26.9	26.2	25.2	24.5
Min.Temp (°C)	19.2	17.9	16.9	16.4	17.7
Sky condition (Octas)	7	3	5	7	8
Relative humidity (%) 0830 hours	90	90	88	88	85
Relative humidity (%) 1730 hours	58	48	44	54	54
Wind Speed (kmph)	11.6	10	8.2	5.9	6
Wind Direction	74	64	61	38	33

Forecast Summary

As forecast received from IMD, partially cloudy sky with **light rainfall** may be expected from 14.12.2024 to 18.12.2024 in Mysuru district. The day temperature is expected to be 24.5-26.9°C & night temperature is expected 16.4-19.2°C. The relative humidity in the morning hours is expected to be 85-90% & afternoon relative humidity is expected to be in the range of 44-58%. Wind speed expected to be 5.9-11.6 km/hr.

SMS Advisory

Farmers can proceed with paddy harvesting during the next four dry days to avoid potential losses from light rainfall expected on 18-12-2024. Ensure harvested produce is dried and stored properly. For other crops, monitor soil moisture levels and consider light irrigation if required, especially as temperatures are moderate.

Recommendations to the farmers:-

Crop	Pest/Disease	Damage symptoms	Control measures
General Advisory:			
<ol style="list-style-type: none">Paddy Harvesting: Harvest paddy during the next four dry days to prevent quality loss from the light rainfall on 18-12-2024. Store harvested grains in a dry and ventilated area.Other Crops: Monitor soil moisture levels, especially for crops in sensitive stages like coffee (harvest stage) and black pepper (berry development stage). Delay irrigation until after 18-12-2024, considering the expected rainfall.Livestock Management: Provide clean and dry bedding in shelters to protect livestock from cool night temperatures (as low as 16.7°C). Ensure sufficient feed and access to clean drinking water.Poultry Care: Maintain proper ventilation in poultry houses while ensuring adequate warmth during cooler nights. Regularly check for respiratory issues due to fluctuating temperatures.Soil and Water Conservation: Utilize the dry spell for field maintenance activities like bund strengthening and mulching to conserve soil moisture. Collect and store rainwater from the light rainfall on 18-12-2024 for future use.			

Weather based advisory

Crop	Stage	Advisory
Paddy	Harvest stage	Harvest during dry days (14-12 to 17-12) to avoid damage from rainfall on 18-12. Dry grains properly.
Tomato	Harvest stage	Harvest ripe fruits during the dry spell. Avoid harvesting during rainfall to prevent fungal infections.
Cabbage, Cauliflower	Head formation stage	Ensure proper drainage to avoid waterlogging. Monitor for pests like aphids during humid conditions.
Bean, Field Bean	Pod formation stage	Support plants to prevent lodging due to winds. Avoid irrigation during the rainfall period.
Red Gram	Pod development stage	Monitor for pod borers. Light irrigation may be done on dry days if required.
Chilli	Vegetative/Fruit development	Stake plants to prevent lodging. Apply protective sprays if pest or disease symptoms are noted.
Banana	Fruit development stage	Provide support to plants to avoid lodging due to moderate winds. Mulch to retain soil moisture.
Horticultural Crops	Various stages	Strengthen bunds, improve drainage, and monitor for pest or disease outbreaks during humid conditions.
Livestock specific advisory		
Livestock	-	Provide clean water and balanced feed. Supplement with mineral mixtures to maintain health. Vaccinate against

		common winter diseases like FMD, HS, and BQ. Keep shelters dry and insulated to prevent cold stress. Treat any illnesses promptly with veterinary assistance.
Poultry	-	Maintain warm, dry litter in sheds. Protect birds from cold with proper insulation and lighting. Provide clean water and balanced feed with vitamins to boost immunity during winter.
Sericulture advisory		
Sericulture	Rearing stage	Maintain 24-28°C temperature and 70%-80% humidity in rearing houses. Feed silkworms with fresh, clean mulberry leaves. Keep trays clean to prevent infections.

Recommendation to farmers		
Crop specific advisory:		
Crop	Stage	Advisory
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 . • Birdpurches may be provided to attract predatory birds.
Tomato whiteflies	Fruiting stage	Spray 1.0ml.Oxydemeton methyl 25 EC in a lit. water.
Bean Pod borer	Pod formation stage	Spray 2.0 ml. Malathion 50 EC./ lit. water .
Tomato Early and late blight of tomato	Fruiting stage	<p>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.</p>

Rice earhead bug	Hard dough stage	> During milky stage of the crop; spray Malathion 50 EC. at 2.0 ml./lit. of water . OR > Dust 8 - 10 kg. Malathion 5 D./acre during morning hours.
Rice Brown plant hoppers	Hard dough stage	Spray any one of the following insecticides per lit. water 1) Imidacloprid 17.8 SL.- 0.5 ml. 2) Thiamethoxam 25 WG.- 0.7 g. 3) Monocrotophos 36 SL.- 1.5ml 4) Chlorpyriphos 20 EC.- 2.0 ml. 5) Buprofezin 25 EC.- 1.4ml. > Spray solution should reach the base of the plant. > Around 400 to 450 lit. spray solution required/acre. Granular insecticide kg./ac 1) Carbofuran 3 G- 8.0 2) Phorate 10 G- 5.0 3) Quinalphos 5 G - 12.0 N.B: Drain out the water and apply granules. Two days after application light irrigation may be provided.
Red gram Sterility mosaic	Pod initiation stage	Pull out the infested plants and destroy. 20 - 25, 40 - 45 days after sowing spray 2.5 ml. Dicofol 18.5 EC./lit. water. ICP 7035 sterility mosaic resistant red gram variety.
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) Thiophenate 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.
Ginger Rhizome rot	Harvesting stage	2.0 g. Metalaxyl - MZ 72Wdiv. in a lit. water. Before store of seed material soak them in 3.0 g. Mancozeb 75 Wdiv. in a lit. water for 30 min then dry in shade and store.

Block level weather forecast (From 14-12-2024 to 18-12-2024)**H.D. Kote**

Parameter	14.12.2024	15.12.2024	16.12.2024	17.12.2024	18.12.2024
Rainfall (mm)	1.5	0	0	0	7
Max. temp (°C)	25.8	27	26.2	25.2	23.5
Min.Temp (°C)	19.4	17.5	16.2	16.1	18.1
Sky condition (Octas)	7	2	5	8	8
Relative humidity (%) 0830 hours	90.4	90	90.2	91.1	93.9
Relative humidity (%) 1730 hours	64.3	54.8	44.1	53.2	68.5
Wind Speed (kmph)	12.4	10.3	8.2	5.2	5.8
Wind Direction	60.4	53.5	52.1	33.7	21.8

Hunsuru

Parameter	14.12.2024	15.12.2024	16.12.2024	17.12.2024	18.12.2024
Rainfall (mm)	1.3	0	0	0	8.7
Max. temp (°C)	25.2	26.4	25.9	25.2	23.5
Min.Temp (°C)	19.2	17.4	16.2	16.1	17.9
Sky condition (Octas)	7	2	4	8	8
Relative humidity (%) 0830 hours	89.8	86.2	86.9	87.7	93.1
Relative humidity (%) 1730 hours	60.9	51.4	41.1	48.8	65.6
Wind Speed (kmph)	13.3	11.4	9.6	7.1	8.7
Wind Direction	71.1	65.8	55.7	30.4	16.9

K.R. Nagara

Parameter	14.12.2024	15.12.2024	16.12.2024	17.12.2024	18.12.2024
Rainfall (mm)	1.4	0	0	0	8.8
Max. temp (°C)	25.4	26.4	25.9	25.4	23.6
Min.Temp (°C)	19.2	17.5	16.2	16	17.9
Sky condition (Octas)	7	2	4	8	8
Relative humidity (%) 0830 hours	88.3	85.9	86.1	86.9	92.9
Relative humidity (%) 1730 hours	59.7	49.9	39.9	47.6	66
Wind Speed (kmph)	13.2	10.8	9.1	7.3	9
Wind Direction	72.5	68.5	56.3	32.9	16.2

Mysuru

Parameter	14.12.2024	15.12.2024	16.12.2024	17.12.2024	18.12.2024
Rainfall (mm)	2.2	0	0	0	9.9
Max. temp (°C)	25.6	26.7	26.2	25.2	23.2
Min.Temp (°C)	19.6	17.9	16.8	16.6	18.4
Sky condition (Octas)	6	2	4	8	8
Relative humidity (%) 0830 hours	89.9	91.5	89.5	89.3	90.9
Relative humidity (%) 1730 hours	61.6	50.9	40.9	49	67.2
Wind Speed (kmph)	12.1	11.3	9.6	6.2	6.6
Wind Direction	67.2	63.4	55.7	35.5	12.5

Nanjanagudu

Parameter	14.12.2024	15.12.2024	16.12.2024	17.12.2024	18.12.2024
Rainfall (mm)	1.9	0	0	0	7.9
Max. temp (°C)	25.7	27.1	26.5	25.2	22.6
Min.Temp (°C)	19.9	18.1	16.7	16.6	18.5
Sky condition (Octas)	7	2	4	8	8
Relative humidity (%) 0830 hours	92.5	91.3	92	94	95.3
Relative humidity (%) 1730 hours	64.2	53.9	46	56.3	73.9
Wind Speed (kmph)	10.3	8.5	7	4.4	3.8
Wind Direction	60.7	62.3	55.5	35	16.7

Piriapatna

Parameter	14.12.2024	15.12.2024	16.12.2024	17.12.2024	18.12.2024
Rainfall (mm)	1.5	0	0	0	5.5
Max. temp (°C)	24.6	25.9	25.5	24.9	23.1
Min.Temp (°C)	18.8	16.9	15.7	15.6	17
Sky condition (Octas)	7	2	5	8	8
Relative humidity (%) 0830 hours	88.6	86.8	88.5	86.1	93
Relative humidity (%) 1730 hours	60.4	51.5	40.7	47.6	66.4
Wind Speed (kmph)	13.1	11	9.3	6.2	8.2
Wind Direction	74	66.8	62.4	35.5	28.8

T. Narasipura

Parameter	14.12.2024	15.12.2024	16.12.2024	17.12.2024	18.12.2024
Rainfall (mm)	2	0	0	0	10.8
Max. temp (°C)	26	27.2	26.5	25.6	22.6
Min.Temp (°C)	19.9	18	16.7	16.5	18.5
Sky condition (Octas)	6	2	4	8	8
Relative humidity (%) 0830 hours	90	90.3	90.4	88.2	89.4
Relative humidity (%) 1730 hours	60.8	48.1	41.2	50.1	66.4
Wind Speed (kmph)	9.7	8.7	6.9	5.2	4.1
Wind Direction	63.4	60.2	51.3	33.7	15.2

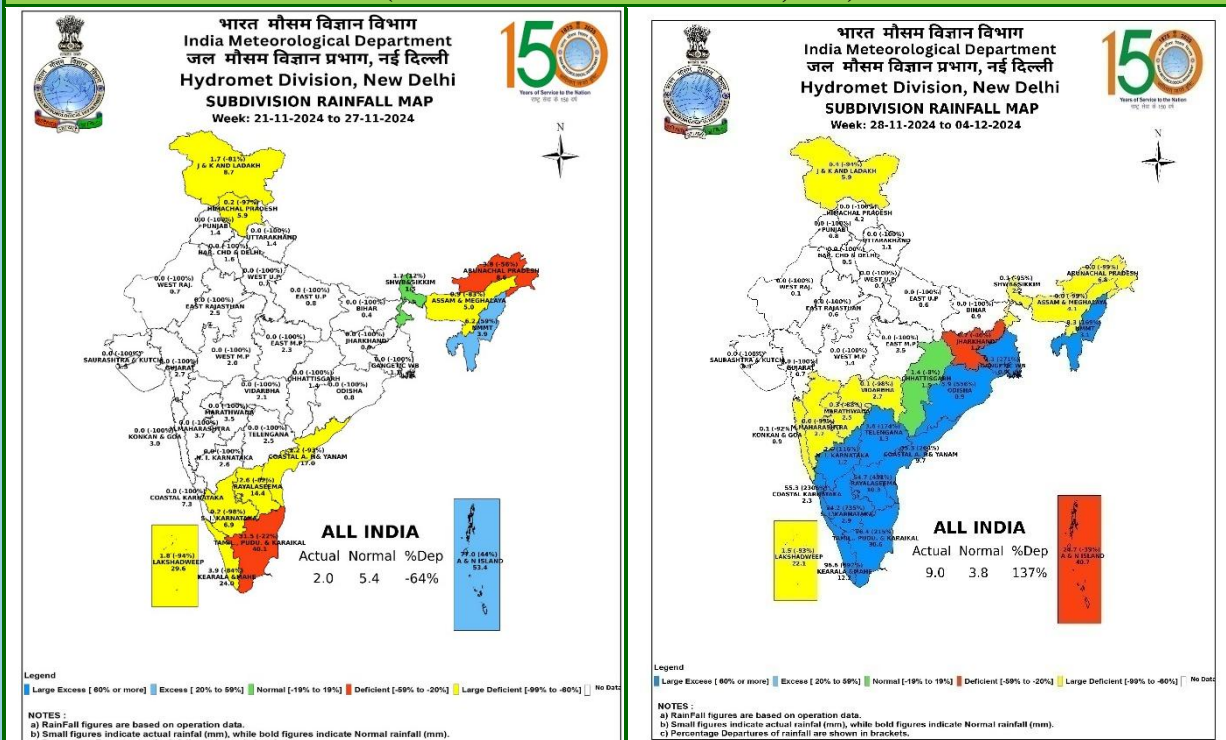
- Download “**DAMINI**” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download “**MAUSAM**” APP for location specific forecast & warning & “**MEGHDOOT**” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

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)

Realized Rainfall
 (21th November to 4th December, 2024)



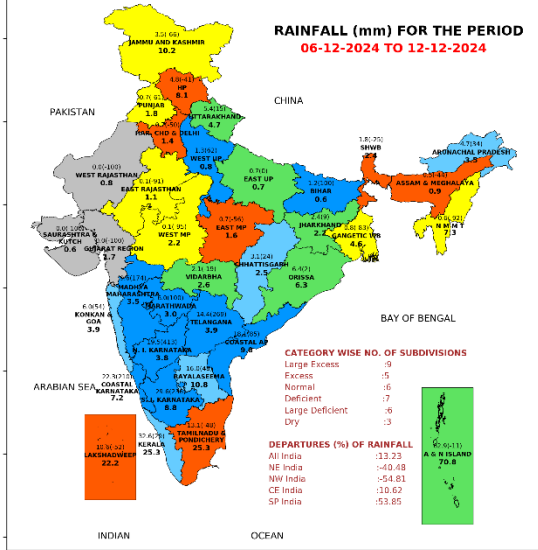
- Normal or above normal rainfall occurred in both the weeks over Nagaland Manipur Mizoram & Tripura (NMMT).
- Normal or above normal rainfall occurred in either of the two weeks over West Bengal & Sikkim, Odisha, Chhattisgarh, Telangana, Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 4th December,2024) (6th to 19th December, 2024)

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Rainfall Forecast Map - Normal RF Based Categories

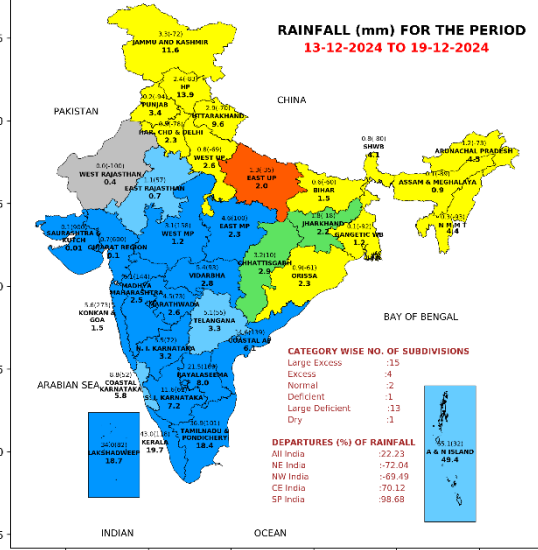


LEGEND
 NO DATA
 NO RAIN (<100%)
 LARGE DEFICIENT (-99% TO -60%)
 DEFICIENT (-55% TO -20%)
 NORMAL (19% TO -19%)
 EXCESS (20% TO 59%)
 LARGE EXCESS (60% TO 99%)

NOTES
 (a) Rainfall figures are based on MME forecast data.
 (b) Small figures indicates actual rainfall (mm), while bold figure indicates normal rainfall (mm)
 Percentage departures of rainfall are shown in brackets.

INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories



LEGEND
 NO DATA
 NO RAIN (<100%)
 LARGE DEFICIENT (-99% TO -60%)
 DEFICIENT (-59% TO -20%)
 NORMAL (19% TO -19%)
 EXCESS (20% TO 59%)
 LARGE EXCESS (60% TO 99%)

NOTES
 (a) Rainfall figures are based on MME forecast data.
 (b) Small figures indicates actual rainfall (mm), while bold figure indicates normal rainfall (mm)
 Percentage departures of rainfall are shown in brackets.

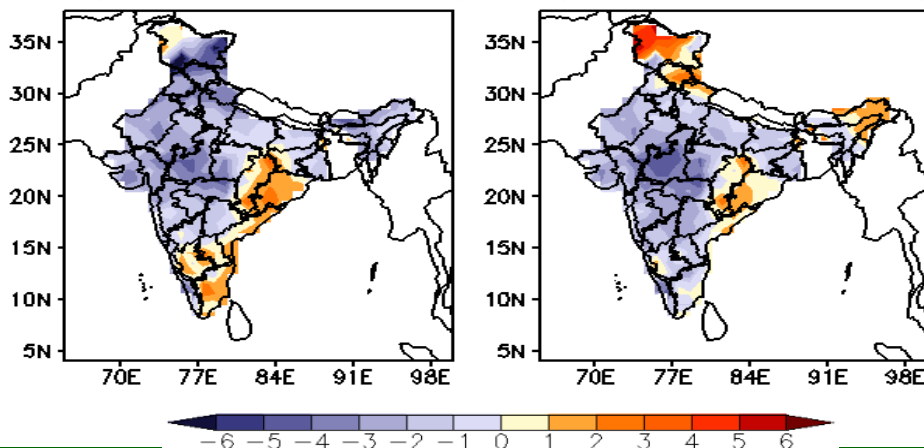
- **Week1(06.12.2024 to 12.12.2024):**Rainfall is likely to be above normal over Karnataka.
- **Week 2 (13.12.2024 to 19.12.2024):**Rainfall is likely to be above normal over Kerala and Tamil Nadu.

**Maximum and Minimum temperature anomaly (°C) forecast
for the next 2 weeks (IC- 4th December,2024)
(6thto 19th December, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 06Dec-12Dec)

(Week2: 13Dec-19Dec)



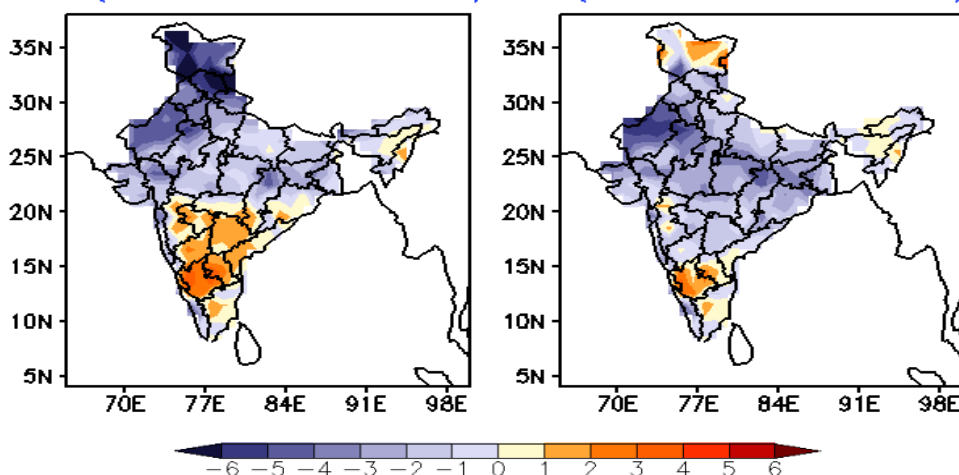
Maximum Temperature (Tmax)

- **Week 1 (06.12.2024 to 12.12.2024):**Maximum temperature is likely to be below normal over many parts of Northwest India, westcentral India, Northeast India and some parts of East India. It is likely to be above normal over Odisha and many parts of south India.
- **Week 2 (13.12.2024 to 19.12.2024):**Maximum temperature is likely to be above normal over most parts of the country except Jammu & Kashmir, Himachal Pradesh, Odisha and some parts in Northeast India.

MME forecast Tmin anomaly (Deg C)

(Week1: 06Dec-12Dec)

(Week2: 13Dec-19Dec)



Minimum Temperature (Tmin)

- **Week 1 (06.12.2024 to 12.12.2024):** Minimum temperature is likely to be below normal over Northwest India, Central India and parts of Northeast India. It is likely to be above normal over parts of peninsular India.
- **Week 2 (13.12.2024 to 19.12.2024):** Minimum temperature is likely to be below normal over most parts of the country. It is likely to be above normal over parts of Karnataka and Jammu & Kashmir.