

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



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AMFU, OFRS, NAGANAHALLI,
MYSURU - 570003**



Date:06-12-2024

AGRO-ADVISORY BULLETIN FOR MYSURU DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

| Parameter | 03.12.2024 | 04.12.2024 | 05.12.2024 | 06.12.2024 |
|---|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 34.8 | 0 | 0 | 0 |
| Max. Temp. (°C) | 25 | 29.5 | 29.5 | 30.5 |
| Min. Temp. (°C) | 20.8 | 20 | 20.2 | 18.3 |
| Sky condition (Octas) | 5 | 8 | 2 | 2 |
| Relative humidity (%) 0830 hours | 88 | 85 | 75 | 78 |
| Relative humidity (%) 1730 hours | 65 | 73 | 59 | 65 |
| Wind Speed (km/h) | 6 | 6 | 8 | 6 |
| Wind Direction | 230 | 50 | 50 | 50 |

Weather forecast for the next five days (From 07-12-2024 to 11-12-2024)

| Parameter | 07.12.2024 | 08.12.2024 | 09.12.2024 | 10.12.2024 | 11.12.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max. temp (°C) | 27.7 | 27.7 | 27.5 | 27.6 | 27.1 |
| Min.Temp (°C) | 19.1 | 19 | 19.1 | 18.7 | 18.5 |
| Sky condition (Octas) | 5 | 5 | 6 | 6 | 7 |
| Relative humidity (%) 0830 hours | 91 | 93 | 92 | 94 | 90 |
| Relative humidity (%) 1730 hours | 50 | 51 | 55 | 57 | 52 |
| Wind Speed (kmph) | 1.8 | 0.8 | 2.5 | 2.9 | 3.4 |
| Wind Direction | 53 | 154 | 98 | 97 | 58 |

Forecast Summary

As forecast received from IMD, partially cloudy sky with **no rainfall** may be expected from 07.12.2024 to 11.12.2024 in Mysuru district. The day temperature is expected to be 27.1-27.7°C & night temperature is expected 18.5-19.1°C. The relative humidity in the morning hours is expected to be 90-94% & afternoon relative humidity is expected to be in the range of 50-57%. Wind speed expected to be 0.8-3.4 km/hr.

SMS Advisory

No rainfall for the next five days. Harvest paddy and pulses, dry them properly. Light irrigation for vegetables; monitor pests in cabbage, cauliflower.

Recommendations to the farmers:-

| Crop | Pest/Disease | Damage symptoms | Control measures |
|------|--------------|-----------------|------------------|
|------|--------------|-----------------|------------------|

General Advisory:

- **Paddy and Pulses:** Harvest matured crops and dry them thoroughly to ensure quality storage.
- **Vegetables:** Provide light irrigation and support for tomato and brinjal; monitor for pests and diseases.
- **Cabbage and Cauliflower:** Avoid over-irrigation and check for pests like diamondback moth and aphids.
- **Banana:** Remove infected leaves and ensure proper support to plants during fruit development.
- **Soil Health:** Utilize this dry period to apply organic manures and prepare fields for the next cropping season.

Weather based advisory

| Crop | Stage | Advisory |
|-----------------------------|------------------------------|--|
| Paddy | Harvest stage | Harvest mature crops immediately. Dry grains to 12%-14% moisture. Use tarpaulins during drying to avoid contamination. |
| Tomato | Harvest stage | Harvest firm fruits. Avoid bruising during handling. Dry harvested tomatoes properly before storage or transportation. |
| Cabbage, Cauliflower | Head formation stage | Light irrigation if soil is dry. Monitor for diamondback moth and black rot; use recommended control measures. |
| Bean, Field Bean | Pod formation stage | Harvest mature pods and dry thoroughly. Apply light irrigation to maintain soil moisture for developing pods. |
| Red Gram | Pod development stage | Inspect for pod borers. Use pheromone traps or biological control measures. Remove and destroy damaged pods. |
| Chilli | Vegetative/Fruit development | Provide stakes for support. Irrigate lightly. Monitor for fruit borers and apply neem-based biopesticides. |
| Banana | Fruit development stage | Remove dried leaves. Provide light irrigation and mulching to conserve soil moisture. Support plants to prevent lodging. |
| Horticultural Crops | Various stages | Irrigate as needed. Mulch around plants to retain moisture. Monitor for fungal infections in 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 | <p>> During milky stage of the crop; spray Malathion 50 EC. at 2.0 ml./lit. of water .</p> <p style="text-align: center;">OR</p> <p>> Dust 8 - 10 kg. Malathion 5 D./acre during morning hours.</p> |
| Rice Brown plant hoppers | Hard dough stage | <p>Spray any one of the following insecticides per lit. water</p> <ol style="list-style-type: none"> 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. |

| | | |
|------------------------------------|-------------------------|---|
| | | <p>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.</p> |
| Red gram Sterility mosaic | Pod initiation stage | <p>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.</p> |
| Banana Leaf spot (Cigatoka) | Fruit development | <p>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.</p> |
| Field bean pod borer | Pod development | <p>Dust 10 kg. Fenvalrate 0.4 D. OR Malathion 5 D. per acre during morning hours.</p> |
| Paddy Leaf folder | Panicle emergence stage | <p>Apply any one of the following insecticides per lit. water a) Quinalphos 25 EC. - 2.0 ml. b) Indoxacarb 14.5 SC. - 0.5ml. c) Flubendiamide 48 SC. - 0.08ml. d) Flubendiamide 20 WG. - 0.2 g. Drain out the water and spray the insecticide. 250 - 300 lit. spray mixture requires per acre.</p> |
| Paddy Bacterial leaf blight | Panicle emergence stage | <p>25 and 50 DAT add 0.5 g. Streptocycline and 2.5 g. Copper oxychloride 50 WP for a lit. Water and spray. 200 to 250 lit. Spray mixture requires/acre/time.</p> |
| Ginger Rhizome rot | Harvesting stage | <p>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.</p> |

Block level weather forecast (From 07-12-2024 to 11-12-2024)**H.D. Kote**

| Parameter | 07.12.2024 | 08.12.2024 | 09.12.2024 | 10.12.2024 | 11.12.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max. temp (°C) | 28.2 | 28 | 28.2 | 28.2 | 27.8 |
| Min.Temp (°C) | 18.7 | 18.2 | 18.8 | 18.7 | 18.4 |
| Sky condition (Octas) | 2 | 5 | 6 | 4 | 6 |
| Relative humidity (%) 0830 hours | 89.6 | 94.7 | 93.4 | 94.5 | 89.3 |
| Relative humidity (%) 1730 hours | 50.5 | 49.7 | 53.4 | 49.7 | 47.9 |
| Wind Speed (kmph) | 2.9 | 1.4 | 0.4 | 0.7 | 2.5 |
| Wind Direction | 29.7 | 90 | 90 | 90 | 45 |

Hunsuru

| Parameter | 07.12.2024 | 08.12.2024 | 09.12.2024 | 10.12.2024 | 11.12.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max. temp (°C) | 27.7 | 27.5 | 27.5 | 27.7 | 27.5 |
| Min.Temp (°C) | 18.7 | 18.2 | 18.7 | 18.9 | 18.5 |
| Sky condition (Octas) | 2 | 5 | 5 | 4 | 6 |
| Relative humidity (%) 0830 hours | 86.7 | 93.2 | 92.8 | 92.2 | 84.4 |
| Relative humidity (%) 1730 hours | 50.6 | 51.2 | 55 | 49.9 | 47 |
| Wind Speed (kmph) | 3.6 | 2.9 | 0.5 | 1.8 | 3.3 |
| Wind Direction | 36.8 | 29.7 | 45 | 78.7 | 40.6 |

K.R. Nagara

| Parameter | 07.12.2024 | 08.12.2024 | 09.12.2024 | 10.12.2024 | 11.12.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max. temp (°C) | 27.5 | 27.2 | 27.4 | 27.5 | 27.4 |
| Min.Temp (°C) | 18.8 | 18.5 | 18.9 | 18.8 | 18.6 |
| Sky condition (Octas) | 2 | 5 | 6 | 5 | 6 |
| Relative humidity (%) 0830 hours | 86.1 | 93.7 | 92.4 | 92.4 | 86.6 |
| Relative humidity (%) 1730 hours | 50.2 | 51.8 | 54.2 | 50.4 | 46 |
| Wind Speed (kmph) | 3.7 | 2.5 | 1.6 | 2.9 | 3.3 |
| Wind Direction | 60.9 | 45 | 63.4 | 0 | 49.4 |

Mysuru

| Parameter | 07.12.2024 | 08.12.2024 | 09.12.2024 | 10.12.2024 | 11.12.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max. temp (°C) | 28 | 27.5 | 27.8 | 28.1 | 28 |
| Min.Temp (°C) | 19.2 | 19.1 | 19.2 | 19.2 | 19.1 |
| Sky condition (Octas) | 3 | 5 | 6 | 5 | 7 |
| Relative humidity (%) 0830 hours | 90.6 | 94.9 | 94 | 93.1 | 88.7 |
| Relative humidity (%) 1730 hours | 50.8 | 52.4 | 54.6 | 50.7 | 44.3 |
| Wind Speed (kmph) | 5.5 | 3.8 | 2.6 | 4 | 4 |
| Wind Direction | 58.4 | 73.3 | 106 | 95.2 | 63.4 |

Nanjanagudu

| Parameter | 07.12.2024 | 08.12.2024 | 09.12.2024 | 10.12.2024 | 11.12.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max. temp (°C) | 28.4 | 28 | 28.1 | 28.5 | 28.2 |
| Min.Temp (°C) | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 |
| Sky condition (Octas) | 3 | 5 | 5 | 5 | 7 |
| Relative humidity (%) 0830 hours | 90.1 | 91.3 | 93.5 | 92.3 | 86.8 |
| Relative humidity (%) 1730 hours | 50.4 | 50.8 | 54.3 | 53.6 | 49.2 |
| Wind Speed (kmph) | 3 | 3.1 | 3.8 | 3.1 | 2.5 |
| Wind Direction | 76 | 125.6 | 138.8 | 144.5 | 0 |

Piriapatna

| Parameter | 07.12.2024 | 08.12.2024 | 09.12.2024 | 10.12.2024 | 11.12.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max. temp (°C) | 27.2 | 27.2 | 27.1 | 27.2 | 26.9 |
| Min.Temp (°C) | 18.1 | 17.5 | 18 | 18.1 | 17.8 |
| Sky condition (Octas) | 2 | 4 | 5 | 4 | 6 |
| Relative humidity (%) 0830 hours | 88.3 | 91.6 | 92.3 | 92.2 | 84.9 |
| Relative humidity (%) 1730 hours | 50.9 | 51.5 | 53.4 | 51.9 | 48.7 |
| Wind Speed (kmph) | 3.1 | 2.3 | 1 | 1.3 | 4.1 |
| Wind Direction | 45 | 18.4 | 45 | 56.3 | 45 |

T. Narasipura

| Parameter | 07.12.2024 | 08.12.2024 | 09.12.2024 | 10.12.2024 | 11.12.2024 |
|----------------------------------|------------|------------|------------|------------|------------|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max. temp (°C) | 28.2 | 28 | 28.2 | 28.6 | 28.4 |
| Min.Temp (°C) | 19.2 | 19.1 | 19.2 | 19.2 | 19.2 |
| Sky condition (Octas) | 3 | 5 | 5 | 5 | 7 |
| Relative humidity (%) 0830 hours | 89.9 | 86.3 | 90.1 | 88.2 | 85.4 |
| Relative humidity (%) 1730 hours | 50.2 | 51.7 | 52.6 | 49.4 | 44.9 |
| Wind Speed (kmph) | 4 | 2.9 | 3.6 | 3.6 | 2.9 |
| Wind Direction | 63.4 | 0 | 126.9 | 126.9 | 60.2 |

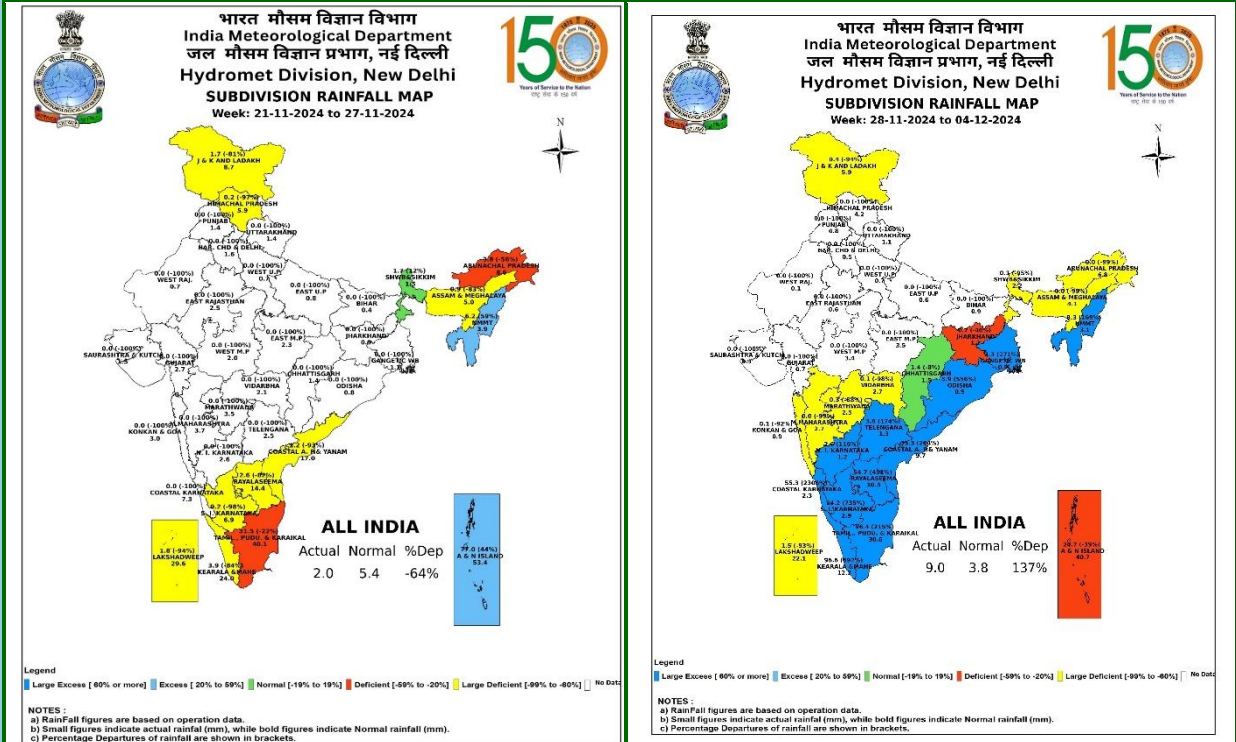
- Download “**DAMINI**” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download “**MAUSAM**” APP for location specific forecast & warning & “**MEGHDOOT**” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

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)



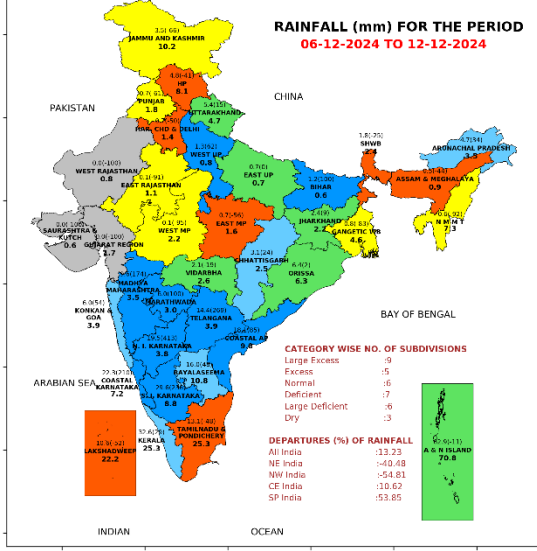
- Normal or above normal rainfall occurred in both the weeks over Nagaland Manipur Mizoram & Tripura (NMMT).
- Normal or above normal rainfall occurred in either of the two weeks over West Bengal & Sikkim, Odisha, Chhattisgarh, Telangana, Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & 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

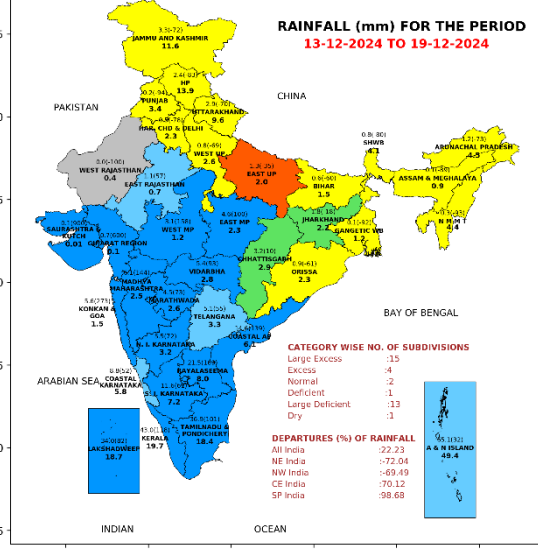


LEGEND: NO DATA, NO RAIN (<100%), LARGE DEFICIENT (-59% TO -60%), DEFICIENT (-35% TO -20%), NORMAL (19% TO -19%), EXCESS (20% TO 59%), LARGE EXCESS (60%)

NOTE: (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.

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Rainfall Forecast Map - Normal RF Based Categories



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

NOTE: (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.

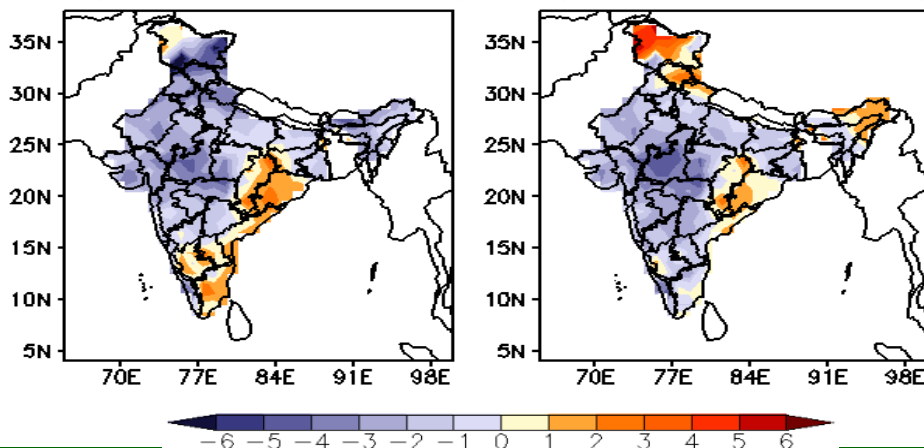
- **Week1(06.12.2024 to 12.12.2024):**Rainfall is likely to be above normal over Karnataka.
- **Week 2 (13.12.2024 to 19.12.2024):**Rainfall is likely to be above normal over Kerala and Tamil Nadu.

**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)



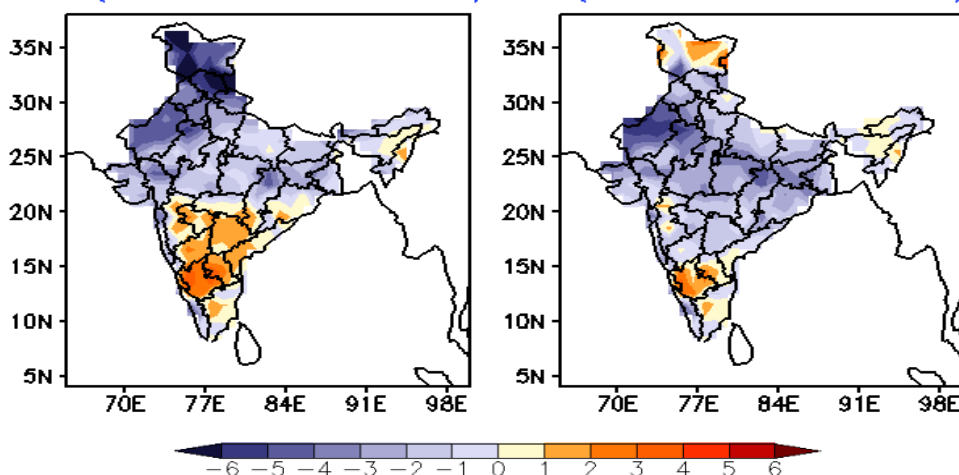
Maximum Temperature (Tmax)

- **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.