

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



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



Date: 15-10-2024

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	11.10.2024	12.10.2024	13.10.2024	14.10.2024	15.10.2024
Rainfall (mm)	24	29.5	0.5	4	-
Max. Temp. (°C)	31.1	31.3	29.4	28.7	-
Min. Temp. (°C)	20	22	21.5	20.5	-
Sky condition (Octas)	-	-	-	-	-
Relative humidity (%) 0830 hours	100	100	100	100	-
Relative humidity (%) 1730 hours	100	87	92	100	-
Wind Speed (km/h)	-	-	-	-	-
Wind Direction	-	-	-	-	-

Weather forecast for the next five days (From 16-10-2024 to 20-10-2024)

Parameter	16.10.2024	17.10.2024	18.10.2024	19.10.2024	20.10.2024
Rainfall (mm)	18	20	12	8	7
Max. Temp. (°C)	23.4	23.1	23.9	26.2	27.2
Min.Temp. (°C)	19.8	19.7	19.7	19.6	19.2
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	93.7	96.7	97.1	95.7	91.5
Relative humidity (%) 1730 hours	70.6	74.1	74.8	65.8	56.2
Wind Speed (kmph)	3.7	4.7	8	2.1	1.4
Wind Direction	281.3	278.8	277.8	210.9	0

Forecast Summary

As forecast received from IMD, partially cloudy sky with **light to moderate rainfall** may be expected from 16.10.2024 to 20.10.2024 in Chamarajanagara district. The day temperature is expected to be 23.1-27.2 °C & night temperature is expected 19.2-19.8 °C. The relative humidity in the morning hours is expected to be 91.5-97.1% & afternoon relative humidity is expected to be in the range of 56.2-74.8%. Wind speed expected to be 1.4-8 km/ hr.

Recommendations to the farmers:			
Crop	Pest/Disease	Damage symptoms	Control measures
General Advisory			
- With consistent rainfall forecasted, ensure all fields have adequate drainage systems to prevent waterlogging, which can lead to crop diseases. - Regularly monitor crops for disease outbreaks due to high humidity and wet conditions, particularly in fruit and vegetable crops.			
Crops and varieties that can be grown in the month of October			
Finger millet : Indaf-7, Indaf-9, KMR-301, GPU-45 Rabi Maize : M-35-1, Nose (5-4-1), CSH-10 Paddy : MSN-99 Maize : Hema, Nityashree, MAH-14-5 Popcorn : Amber Sunflower: KBSH-41, KBSH-42, KBSH-44, KBSH53, KBSH-78, KBSH-85 Soybean: MAUS-2 (Prajaa), Karune (Vegetable Soybean), KBS-23, KBSH-85 Niger: KBN-1, No-71 Safflower: Annigere-1, NARI-6, A-2 Field bean: HA-3, 4 Chickpea: Annigere-1, JG-11, Vishal, KAK-2 Sugarcane: Co-62175, Co-86032 (Nayana), CoVC-99463 (Vishal), Co-8371 (Bhima), VCF-0517 (Bahubali), CoVC-18061 Amaranthus: KBGA-15 Horticulture Crops: Grapes, Banana, Arecanut, Garlic, Garden pea, Carrot, Tomato, Potato, Brinjal, Chilli, Cauliflower, Radish, cabbage, Knol Khol Fodder crops: Maize : African Tall Maize: MP Chari, Pusachari, JS-3, GS-20, COFS-29 Bajra: Dhina Bandhu- 49A Cowpea: KBC-2, Lucerne: RL-88			

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(Bahubali), CoVC-18061

Amaranthus: KBGA-15

Horticulture Crops: Grapes, Banana, Arecanut, Garlic, Garden pea, Carrot, Tomato, Potato, Brinjal, Chilli, Cauliflower, Radish, cabbage, Knol Khol

Fodder crops:

Maize : African Tall

Maize: MP Chari, Pusachari, JS-3, GS-20, COFS-29

Bajra: Dhina Bandhu- 49A

Cowpea: KBC-2,

Lucerne: RL-88

Weather based advisory		
Crop	Stage	Advisory
Maize	Tasseling	- Due to forecasted rainfall, avoid irrigation. - Maintain field drainage to prevent waterlogging. - Monitor for fall armyworm attacks.
Paddy	Stem elongation	- Ensure proper drainage to avoid standing water. - Apply nitrogen fertilizers if not already done. - Watch for sheath blight and plan protection.
Chilli	Fruit development stage	- Ensure good drainage in the fields to avoid waterlogging. - Monitor for fruit rot and viral diseases due to high humidity. - Provide plant support.
Ragi	Tillering stage	- Provide drainage to avoid standing water. - Light application of fertilizers can be done if there is no heavy rain.
Field bean	Pod development	- Maintain soil moisture through light irrigation if needed. - Ensure proper drainage to avoid water stagnation.
Banana	Fruit development stage	- Ensure drainage to avoid water stagnation. - Provide support to plants to prevent lodging. - Apply potassium-based fertilizers for fruit quality.
Turmeric, Ginger	Rhizome development stage	- Avoid waterlogging by ensuring proper drainage. - Apply organic mulching to conserve soil moisture. - Monitor for rhizome rot and take action.
Black pepper	Berry development stage	- Ensure proper drainage to avoid root rot. - Maintain humidity around the plants but avoid waterlogging.
Coffee	Berry development stage	- Avoid water stagnation in the plantation area. - Mulching can be applied to conserve soil moisture.
Horticultural crops	Various stages	- Provide staking or other support systems to fruit trees and crops to avoid lodging. - Avoid excess watering due to forecasted rainfall.
Livestock	Shelter and Feeding	- Keep animals in well-ventilated shelters, avoiding overcrowding. - Ensure dry bedding for animals. - Store fodder in dry places.
Sericulture	Rearing stage	- Maintain ideal temperature (24-28°C) and humidity levels (70-80%) in rearing rooms. - Protect silkworms from excess moisture and strong winds.

Recommendation to farmers		
Crop specific advisory:		
Crop	Stage	Advisory
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.
Field bean and cowpea Aphids	Pod development	Spray Dimethoate 30 EC. @ 1.75 ml./lit. water.
Paddy Leaf folder	Vegetative stage	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.
Paddy leaf and neck blast	Vegetative stage	> Seed treatment: Treat the seeds @ 4 g. Carbendazim 50 WP. or Tricyclazole 75 WP. @ 0.6 g./kg. seed. Nursery spray > When seedlings are 10 -12 days old spray any one of the following fungicides to a lit. water. a) Carbendazim 50 WP. - 1.0 g. b) Tricyclazole 75 WP. - 0.6 g. c) Edifenphos 50 EC. - 1.0 ml. d) Kitazin 48 EC. - 1.0 ml. 20 - 25 days after transplanting if disease incidence above 5 per cent sprays any one fungicide mention above. If necessary spray at flowering stage. 200 - 300 lits. spray solution/acre.
Paddy Bacterial leaf blight	Vegetative stage	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.
Coconut black headed caterpillar	Various stages	- Remove and burn the severely affected fronds. - On community basis feed the Monocrotophos 36 SL. to the palm through root. Method: A meter away from trunk, dig out and select brown coloured pencil thickness size root. Cut the root in a slanting position. To the polythene bag (size of 15 cm. length 4 cm. breadth) add 7.5 to 10 ml. Monocrotophos 36 SL. with equal quantity of water, introduce and immerse cut end of the root in insecticide mixture and tie the bag with thread. - The palm absorb the chemical within a period of 24 hours, if not after 48 hours select another root to feed the chemical. - A month after chemical treatment release larval parasites: gravid, Goniozus@ 10 - 12 /palm. Caution: Not to harvest tender coconuts/matured coconuts for 30 days from date of chemical treatment.

Ginger Rhizome rot	Rhizome development 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.
Pepper Quick wilt and black rot disease	Berry development stage	Drench 10 lit. fungicide mixture/vine viz., 0.125 per cent Metalaxyl - MZ 72Wdiv. OR 2 per cent Copper oxychloride 50 Wdiv. Spray any one of the following fungicide in the month of August - September. Fungicides a)1% Boardeaux mixture + 3 % Potassium phosphonate b)1% Pseudomonas fluroscence. Incorporate Trichogramma (50 g) enriched compost (5 kg.) to the base of the vine.

Weather based advisory		
Crop	Stage	Advisory
Maize	Tasseling	- Ensure proper drainage to prevent waterlogging. - Apply Metalaxyl for downy mildew control. - Apply urea after rain for proper growth.
Paddy	Stem elongation	- Improve drainage. - Apply Tricyclazole for blast control. - Manage bacterial leaf blight using Copper oxychloride or Streptomycin .
Chilli	Fruit development stage	- Apply Copper oxychloride for fruit rot control. - Regularly monitor for pests and diseases. - Ensure proper drainage and remove diseased fruits.
Ragi	Tillering stage	- Apply Carbendazim or Mancozeb for fungal disease control. - Enhance drainage to prevent waterlogging. - Ensure regular weed control.
Field bean	Pod initiation	- Improve drainage. - Apply Mancozeb for root rot. - Monitor aphid infestations and spray neem oil or insecticides.
Banana	Fruit development stage	- Prune infected leaves and apply Copper fungicides . - Stake plants to prevent lodging. - Regular inspection for pest infestations.
Turmeric, Ginger	Rhizome development stage	- Ensure good drainage to prevent waterlogging. - Apply Carbendazim for rhizome rot. - Mulch plants to conserve moisture and control weeds.
Black pepper	Berry development stage	- Apply Copper oxychloride for anthracnose. - Ensure proper drainage. - Stake vines and provide adequate nutrients.
Coffee	Berry development stage	- Apply Copper-based fungicides for rust control. - Improve drainage to avoid waterlogging. - Regularly monitor for pests such as berry borers.
Horticultural crops	Various stages	- Improve drainage to avoid waterlogging. - Apply appropriate fungicides (like Copper oxychloride or Mancozeb) for disease control. - Ensure staking and plant support.
Livestock	Shelter and Feeding	- Keep livestock in dry shelters. - Provide clean, dry bedding. - Ensure regular deworming and vaccination.

Sericulture	Rearing Stage	- Ensure proper ventilation in rearing houses.
		- Maintain optimal humidity levels.
		- Regularly clean and disinfect the rearing environment.

Block level weather forecast (From 16-10-2024 to 20-10-2024)

Chamarajanagara

Parameter	16.10.2024	17.10.2024	18.10.2024	19.10.2024	20.10.2024
Rainfall (mm)	15.2	14.6	7	6.3	4.6
Max. temp (°C)	22.9	23.1	26	27	26.1
Min.Temp (°C)	19.6	19.5	19.5	19.2	19.2
Sky condition (Octas)	8	8	8	7	7
Relative humidity (%) 0830 hours	92.4	96.2	95.3	94	91.5
Relative humidity (%) 1730 hours	71.1	72.6	63.7	60.2	61.5
Wind Speed (kmph)	3.1	3.3	2.6	1.9	2.1
Wind Direction	324.5	319.4	303.7	338.2	329.1

Gundlupete

Parameter	16.10.2024	17.10.2024	18.10.2024	19.10.2024	20.10.2024
Rainfall (mm)	10.3	13.2	7	4.4	5.1
Max. temp (°C)	22.9	23.6	26	27	25.9
Min.Temp (°C)	19.5	19.2	19.2	19.5	19.1
Sky condition (Octas)	8	8	8	7	7
Relative humidity (%) 0830 hours	91.5	95.5	93.8	90.8	91.3
Relative humidity (%) 1730 hours	69.8	70.2	62	57.1	61.1
Wind Speed (kmph)	3.2	3.6	5.2	3.3	3.3
Wind Direction	296.6	275.7	257.9	263.7	257.5

Kollegala

Parameter	16.10.2024	17.10.2024	18.10.2024	19.10.2024	20.10.2024
Rainfall (mm)	13.7	18.2	10.1	7.4	3.8
Max. temp (°C)	22.9	23.8	26.6	27.7	26.4
Min.Temp (°C)	20.2	20.1	20.1	19.9	19.7
Sky condition (Octas)	8	8	8	7	8
Relative humidity (%) 0830 hours	93.3	100	97.6	93.1	95
Relative humidity (%) 1730 hours	72.7	72.8	62.1	57.8	62
Wind Speed (kmph)	1.9	2.7	4	2.4	2.6
Wind Direction	248.2	246.8	259.7	243.4	236.3

Yelandur

Parameter	16.10.2024	17.10.2024	18.10.2024	19.10.2024	20.10.2024
Rainfall (mm)	14.9	17.7	8.8	7.5	5.2
Max. temp (°C)	22.7	23.5	26.5	27.5	26.2
Min.Temp (°C)	20.1	19.9	20	19.8	19.6
Sky condition (Octas)	8	8	8	7	8
Relative humidity (%) 0830 hours	93.6	98.7	97.3	94.4	95.3
Relative humidity (%) 1730 hours	73.6	74.1	63.1	58.6	62.6
Wind Speed (kmph)	1.9	2.3	3.6	1.9	2.1
Wind Direction	248.2	251.6	264.3	248.2	239

Hanur

Parameter	16.10.2024	17.10.2024	18.10.2024	19.10.2024	20.10.2024
Rainfall (mm)	27.1	16.5	31.8	17.8	20.1
Max. temp (°C)	28.6	28.2	27.1	27.6	26.5
Min.Temp (°C)	18.9	19.6	19.6	19.3	19.8
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	97	97	96	96	96
Relative humidity (%) 1730 hours	68	70	76	73	75
Wind Speed (kmph)	4	3	3	5	5
Wind Direction	293	293	165	90	248

- 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

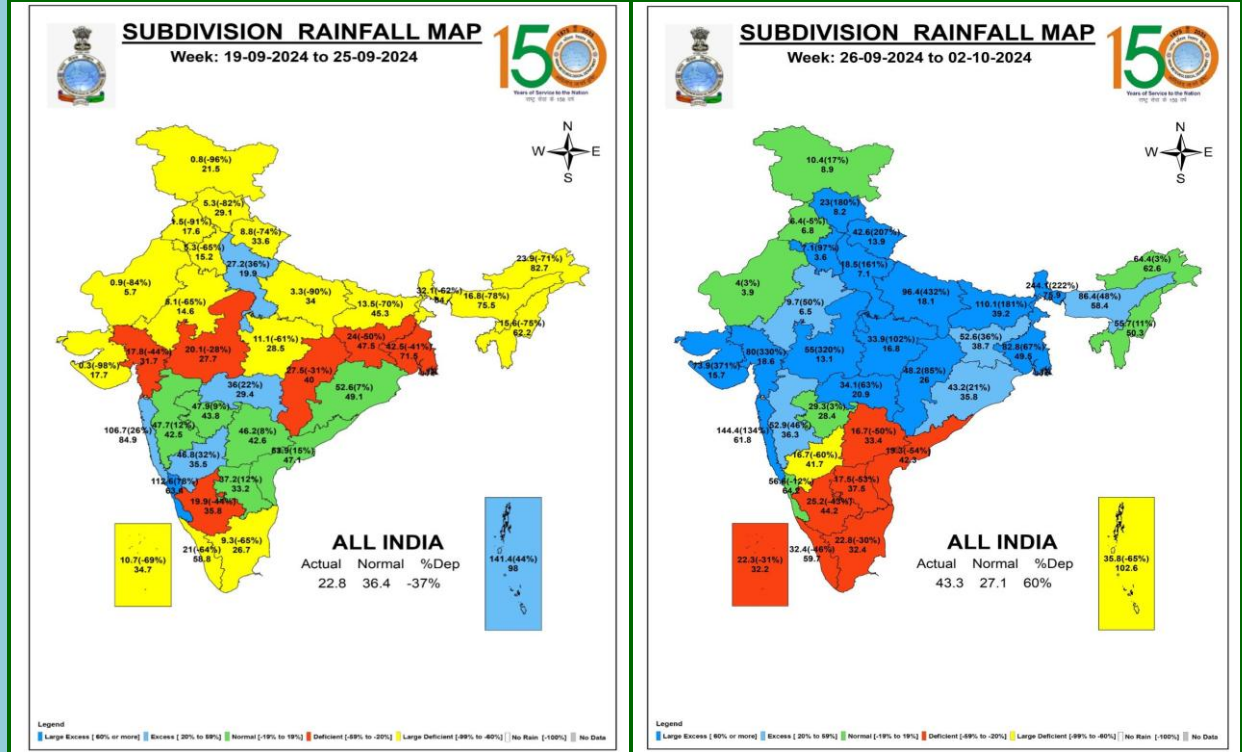
For any information farmers can contact **Dr. C. Ramachandra**, Senior Farm Superintendent/
Dr. Sumanth Kumar.G.V, Technical officer over phone No. 0821-259126/ 9535345814.

**AMFU of IMD,
Naganahalli, Mysuru**

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

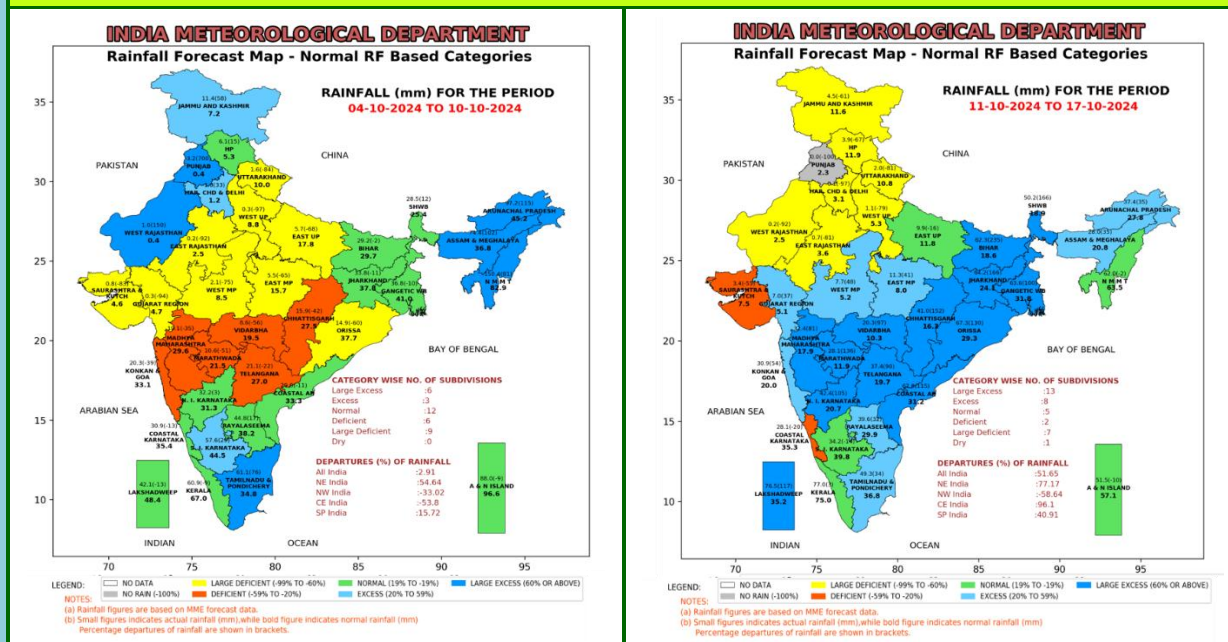
Realized Rainfall

(19th September to 02nd October, 2024)



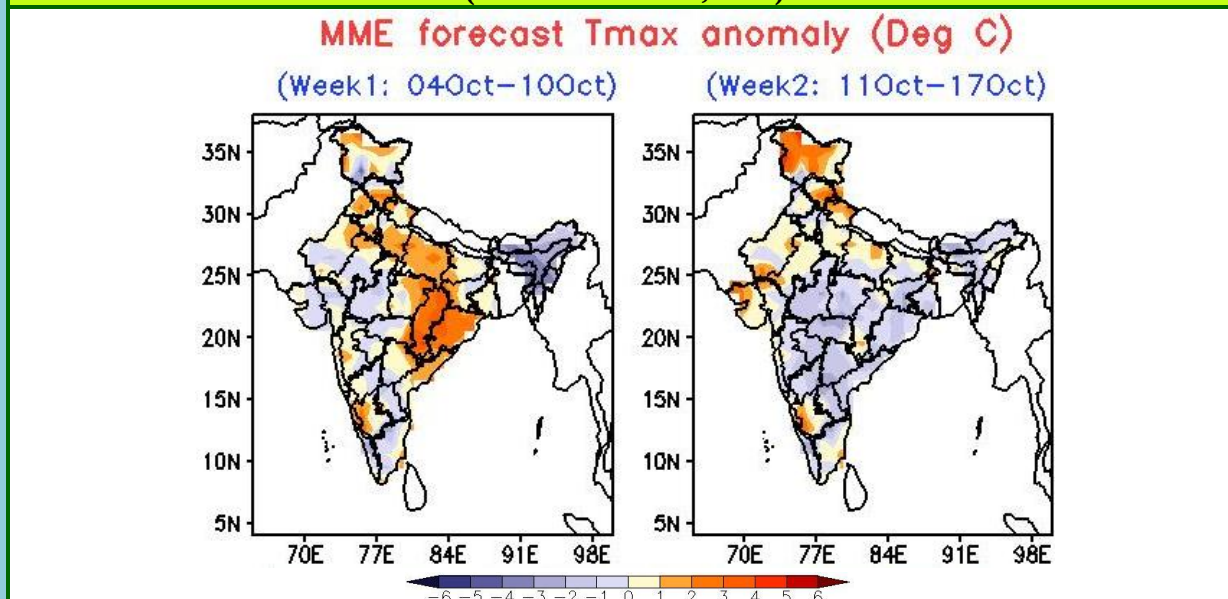
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 02nd October, 2024) (04th to 17th October, 2024)



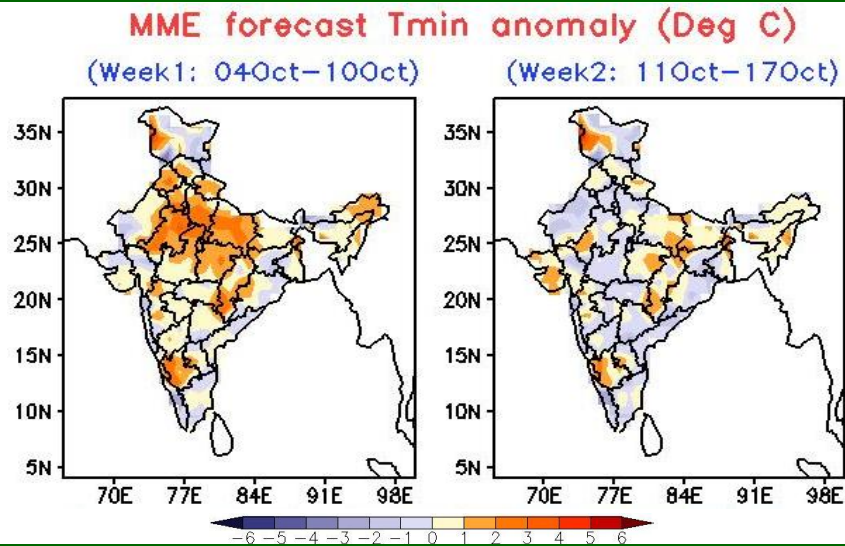
- Week1 (04.10.2024 to 10.10.2024):** Rainfall is likely to be above normal over Northeast India and South India.
- Week 2 (11.10.2024 to 17.10.2024):** Rainfall is likely to be above normal over East India, Chhattisgarh, Coastal Andhra Pradesh, Telangana, Madhya Maharashtra, Marathwada and North Interior Karnataka.

Maximum and Minimum temperature anomaly (°C) forecast for the next 2 weeks (IC- 02nd October, 2024) (04th to 17th October, 2024)



- Week 1 (04.10.2024 to 10.10.2024):** Maximum temperature is likely to be above normal over Odisha, Chhattisgarh, many parts of Northwest India, Karnataka and Coastal Andhra Pradesh.
- Week 2 (11.10.2024 to 17.10.2024):** Maximum temperature is likely to be above normal over North India and parts of Rajasthan, Gujarat and Karnataka. It is likely to be below

normal over Central and East India.



Minimum Temperature (Tmin)

- **Week 1 (04.10.2024 to 10.10.2024):** Tmin is likely to be above normal over most parts of the Country.
- **Week 2 (11.10.2024 to 17.10.2024):** Tmin is likely to be above normal over Northeast India, Bihar, East Uttar Pradesh, Karnataka and Saurashtra& Kutch.