



# **National Agromet Advisory Services Bulletin**

**Date of issue: 06 January 2023**

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 06 - 19 January 2023**

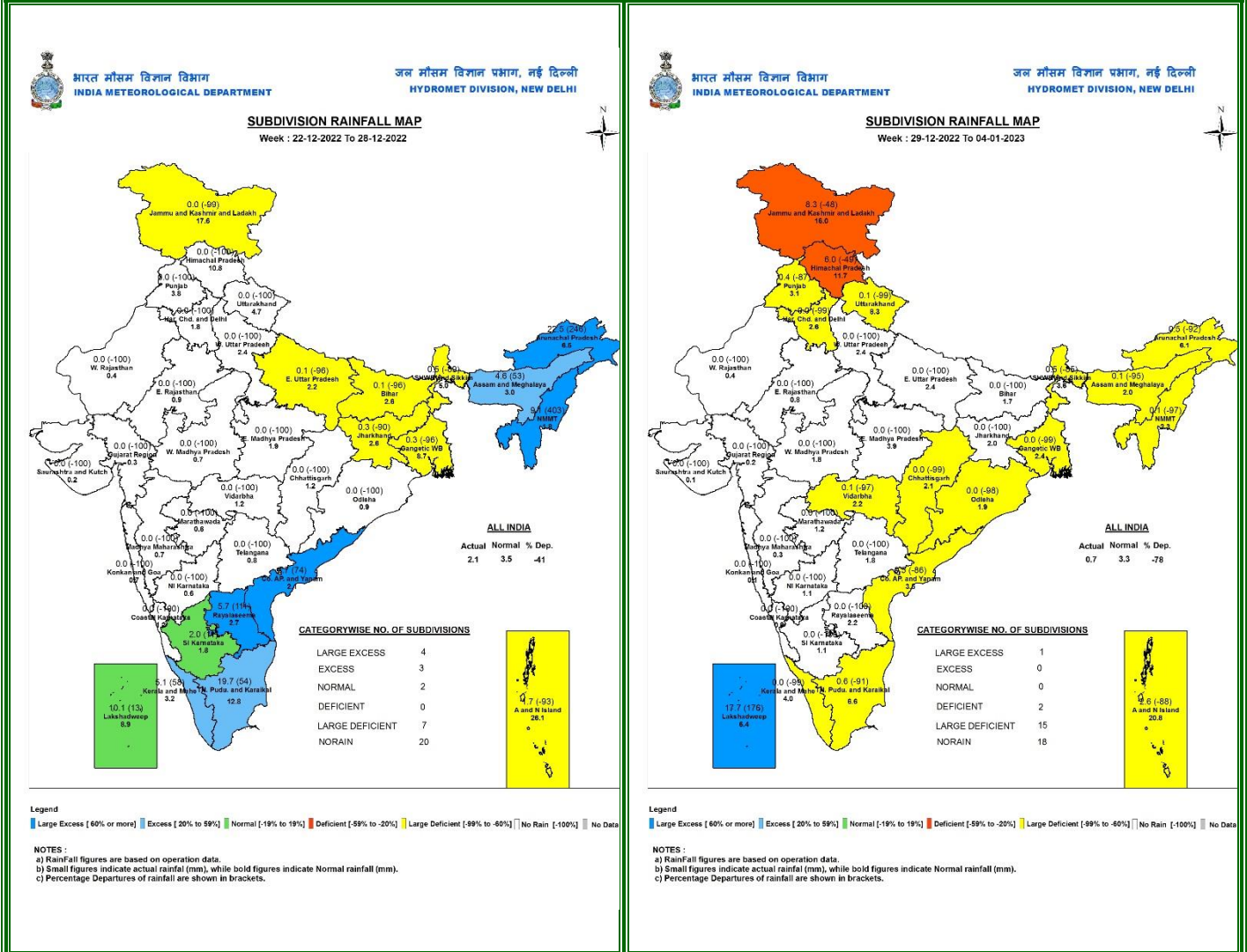
Issued by

**AICRP on Agro-Meteorology (AICRPAM)  
Central Research Institute for Dryland Agriculture (CRIDA)  
Indian Council of Agricultural Research (ICAR)  
&  
India Meteorological Department (IMD)  
Earth System Science Organization**

# Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

## Realized Rainfall

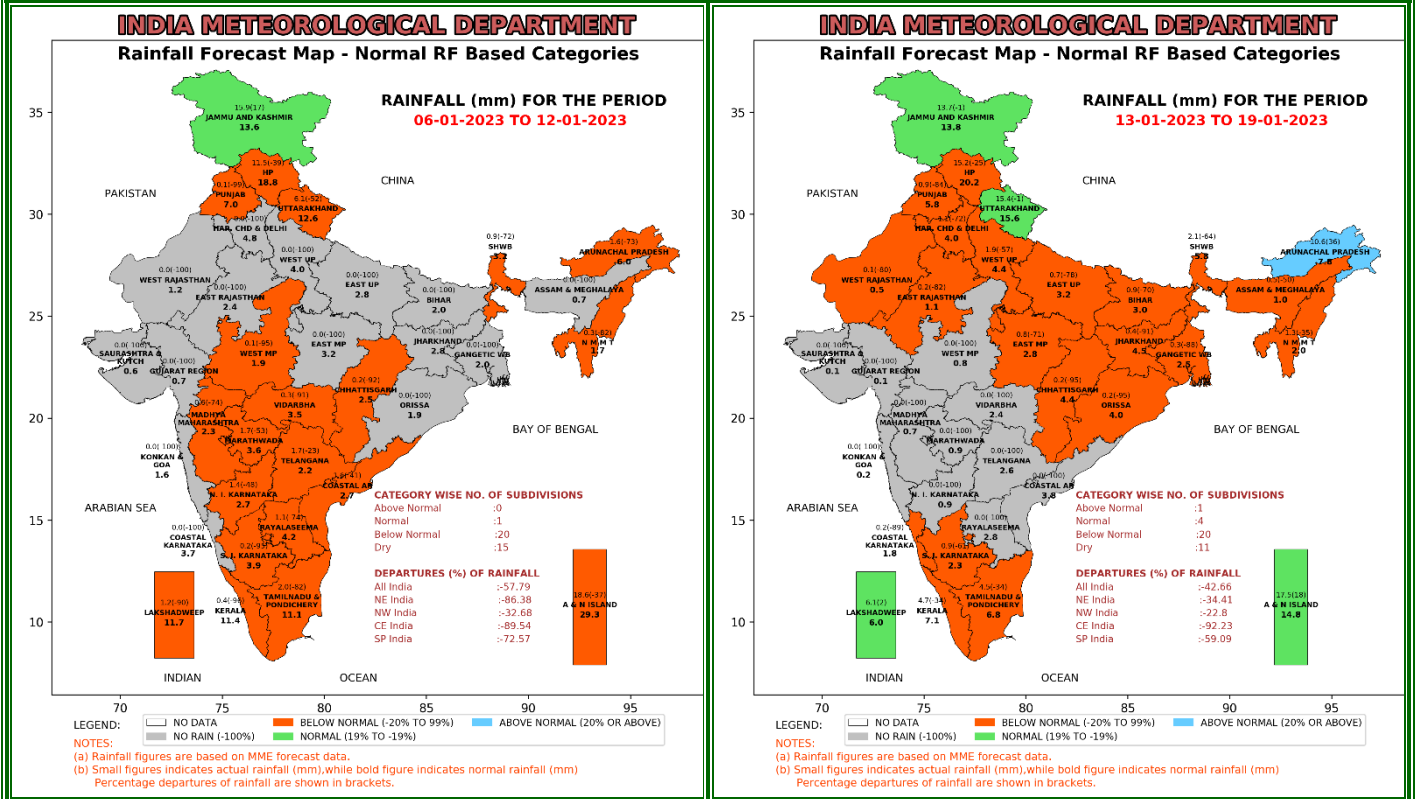
(22<sup>nd</sup> December 2022 to 04<sup>th</sup> January 2023)



- Normal or above normal rainfall occurred in both the weeks in Lakshadweep.
- Normal or above normal rainfall occurred in either of the two weeks in Assam & Meghalaya, Arunachal Pradesh, Nagaland Manipur Mizoram Tripura (NMMT), South Interior Karnataka, Andhra Pradesh & Yanam, Tamil Nadu Puducherry & Karaikal and Kerala & Mahe.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

## Extended Range Forecast System

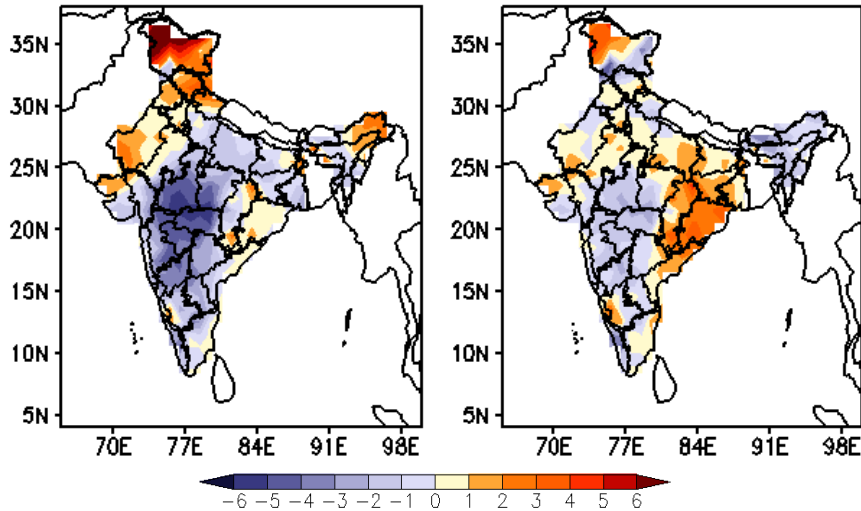
### Rainfall forecast maps for the next 2 weeks (IC- 4<sup>th</sup> January) (6<sup>th</sup> to 19<sup>th</sup> January 2023)



- **Week 1 (06.01.2023 to 12.01.2023) and Week 2 (13.01.2023 to 19.01.2023):** No significant rainfall activity is likely over the country.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for the next 2 weeks (IC- 4<sup>th</sup> January)  
(6<sup>th</sup> to 19<sup>th</sup> January 2023)**

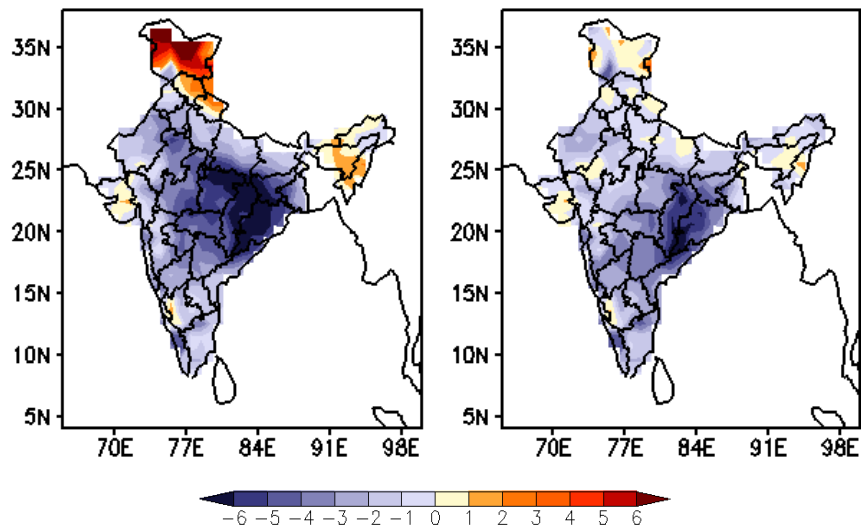
**MME forecast Tmax anomaly (Deg C)**  
(Week1: 06Jan–12Jan)      (Week2: 13Jan–19Jan)



**Maximum Temperature (Tmax)**

- **Week 1 (06.01.2023 to 12.01.2023):** Tmax will be above normal over parts of northwest and northeast India.
- **Week 2 (13.01.2023 to 19.01.2023):** Tmax will be above normal over east coast & adjoining areas and parts of north & northwest India.

**MME forecast Tmin anomaly (Deg C)**  
(Week1: 06Jan–12Jan)      (Week2: 13Jan–19Jan)



**Minimum Temperature (Tmin)**

- **Week 1 (06.01.2023 to 12.01.2023) and Week 2 (13.01.2023 to 19.01.2023):** Tmin is likely to be below normal over most parts of the country. However, it is likely to be significantly below normal over Odisha, Chhattisgarh, Jharkhand and adjoining areas.

## **Agromet Advisories**

### **Tamil Nadu**

The amount of rainfall received over Tamil Nadu was 0.1 mm (-98% large deficit) during 01 - 05 January 2023. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) is below normal for week-1 and week-2.

- Prevailing weather conditions are congenial for fusarium wilt disease incidence in cotton. For the management, it is advised to apply heavy doses of farm yard manure or other organic manures @ 100t/ha.
- Prevailing weather conditions are also congenial for fall army worm infestation in maize. Farmers are advised for foliar spray of Cyantraniliprole (19.8% SC) + Thiamethoxam (19.8 % FS) 4 ml/10 ml of water and Emamectin benzoate @ 4.5 g / 10 litres of water.

### **Kerala**

No rainfall received over Kerala during 01 - 05 January 2023. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) is below normal for week-1 and; week-2.

- Under prevailing weather condition there is a chance of thrips infestation in chilli. For management, it is advised to apply 2% Neem oil garlic emulsion or spray 2 g Thiamethoxam per ten litres of water.
- For the management of coffee berry borer, farmers are advised to spray Quinalphos (0.05%) 400 ml in 200 liters of water.

### **Maharashtra**

No rainfall over Madhya Maharashtra; Marathwada and Konkan region and 0.3 mm (-83% large deficit) over Vidarbha was recorded during 01 - 05 January 2023. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) is below normal over Madhya Maharashtra, Marathwada and Vidarbha and no rainfall over Konkan for week-1 and; no rainfall over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week-2, respectively.

#### *Vidarbha*

- For very late sowing of irrigated wheat, it is advised to complete the sowing by 07 January with recommended varieties - *AKAW 4627* and *PDKV Sardar (AKAW 4210- 6)*.
- During cold weather, keep farm animals in closed shelter and take special care of young cattle to protect from cold. Shelter floor should be covered with straw litter which provides thermal mulch.

### *Marathwada*

- Due to variation in maximum and minimum temperature, irrigation management is advised to avoid berry cracking in grapes.
- Under prevailing weather condition, it is advised to harvest the mature pigeon pea crop; threshing of harvested crop should be done after drying and store the grains at safe places.

### *Konkan*

- Due to fall in minimum temperature, it is advised provide irrigation to nursery, new fruit crop plantation and vegetable crops during evening hours.
- Protect the poultry birds from low temperature by providing curtains and electric bulbs during night time.

### *Madhya Maharashtra*

- Mulching is advised to reduce the evaporation from soil in case of orchard crops.
- Spraying of 1% KNO<sub>3</sub> is advised under moisture stress condition in *rabi* crops.

### **Uttar Pradesh**

No rainfall received over East Uttar Pradesh and West Uttar Pradesh during 01 - 05 January 2023. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) is no rainfall over East Uttar Pradesh and West Uttar Pradesh for week-1 and; below normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

### *Western Uttar Pradesh*

- Provide light irrigation and pick up mature fruits of standing vegetables crop like brinjal and chilies and transplanting of new seedlings is advised.
- Due to cloudy weather condition, there may be the chance of aphids in mustard crop. If seen, it is advised to spray Chlorpyrifos 20% EC @ 1.0 litre/ha or Monocrotophos 36% SL @ 500 ml/ha with 500-600 litres of water solution in clear weather condition.

### **Odisha**

The amount of rainfall received over Odisha was 0.1 mm (-96% deficit) during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) over Odisha is no rainfall for week-1 and; below normal for week-2.

- To protect the paddy nursery from low temperature, it is advised to apply a thin layer of well decomposed FYM in wet bed to keep the bed relatively warm.
- Cover the recently planted cole crops with paper pockets during night time to avoid low temperature.

### **Jammu**

No rainfall was received over Jammu during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) over Jammu is normal for week-1 and; week-2.

- Prevailing weather is congenial for aphid infestation in mustard crop. If the symptom is observed, then it is advised to spray Chlorpyrifos @ 0.05% or Metasystox @ 0.03%.
- It is advised to provide thatching to young horticultural and floricultural plants to protect them from low temperature.

### **Assam**

No rainfall received over Assam during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) over Assam is no rainfall for week-1 and; below normal for week-2.

- Low night temperature coupled with dense fog is favorable for aphid infestation in rapeseed. To control aphid attack, it is advised to spray Thiamethoxam 25 WG @ 3 g per 10 litres of water.
- Most of the regions of the state is experiencing rainfall deficit condition since last couple of weeks. Farmers are advised to provide irrigation in the *rabi* vegetable crops like cauliflower, cabbage, brocolli, *knolkhol*, brinjal, radish, beans, leafy vegetables etc.

### **Karnataka**

No rainfall received during 01 - 05 January 2023 over South Interior Karnataka, North Interior Karnataka and Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) is no rainfall over Coastal Karnataka and below normal over North Interior Karnataka and South Interior Karnataka for week-1 and; no rainfall over North Interior Karnataka and below normal over Coastal Karnataka and South Interior Karnataka for week-2.

#### *South Interior Karnataka*

- To protect the pulse grains from storage pests, it is advised to apply oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.
- To protect animals from a sudden drop in temperature, keep the animals in a covered shed/area during the night. The bedding/hay in the animal sheds must be kept dry and changed/aired every day.

### **Chhattisgarh**

The amount of rainfall received over Chhattisgarh was 0.1 mm (-96% large deficit) during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) over Chhattisgarh is below normal for week-1 and; week-2.

- Under prevailing weather condition, sowing of improved varieties of sunflower like *Modern, TNAU, SUF-7, BSH-1, KBSH-1, DRSH-1, Jwalamukhi, Surya* etc. is advised.

### **Anantapur**

The amount of rainfall received over Coastal Andhra Pradesh was 1.3 mm (-50% large deficit) and no rainfall received over Rayalaseema during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023)

is below normal over Coastal Andhra Pradesh and Rayalaseema for week-1 and; no rainfall over Coastal Andhra Pradesh and Rayalaseema for week-2.

- Present weather conditions are favorable for thrips and mites infestation in chillies grown in Vizianagaram, Srikakulam, Guntur, Kurnool and Ananthapuramu districts. To control the thrips, farmers are advised to spray Diafenthiuron @ 1.5 g/litre of water.

### **Gujarat**

No rainfall received over Gujarat during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) over Gujarat is no rainfall for week-1 and; week-2.

- Under present weather conditions, there is a chance of thrips infestation in chilli. To protect, it is advised to spray Profenofos @ 20 ml with 500 ml of 5 % Neem seed extract in 10 litres of water.

### **West Bengal**

No rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 0.1 mm (-99% large deficit) during 01 - 05 January 2023. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and; no rainfall over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal for week-2.

- Irrigation is advised to upland vegetables (carrot, radish, onion, brinjal etc.) and chick pea crop.
- Deficient rainfall pattern is observed in the southern districts of West Bengal. Farmers are advised not to go for the sowing of Boro rice.

### **Jharkhand**

No rainfall received over Jharkhand during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) over Jharkhand is no rainfall for week-1 and; below normal for week-2.

- Because of cool, humid and foggy in morning and later on clear sunny weather favors for the attack of aphid in mustard crop. To prevent, it is advised for plucking and destroying the infested twigs from the border rows 2-3 times at 10-day intervals, to prevent the further multiplication in the crop season and spray the crop with Oxydemeton methyl 25 EC (1 ml / litre) or Dimethoate 30 EC (1 ml / litre) or Thiamethoxam 25 WG (0.2 g/litre) when the infestation reaches 26-28 aphids per 10 cm of terminal shoot in 10% plants.

### **Punjab**

No rainfall received over Punjab during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) over Punjab is below normal for week-1 and week-2.



- To reduce the heat loss from the surface, mulching is advised in vegetable crops like cauliflower, radish, turnip, pea, tomato, brinjal, chilli and capsicum.

### **Himachal Pradesh**

No rainfall received over Himachal Pradesh during 01 - 05 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 January 2023 and 13 - 19 January 2023) over Himachal Pradesh is below normal rainfall for week-1 and week-2.

- To protect the vegetable crops from frost, it is advised to provide light and frequent irrigations and also generate smoke through burning plant material in the fields.
- Farmers are advised to add mulch material in space between two rows of vegetables crops for conservation of soil moisture and maintaining the soil temperature.

### ***Disclaimer:***

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