



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

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**AICRP on Agro-Meteorology (AICRPAM),  
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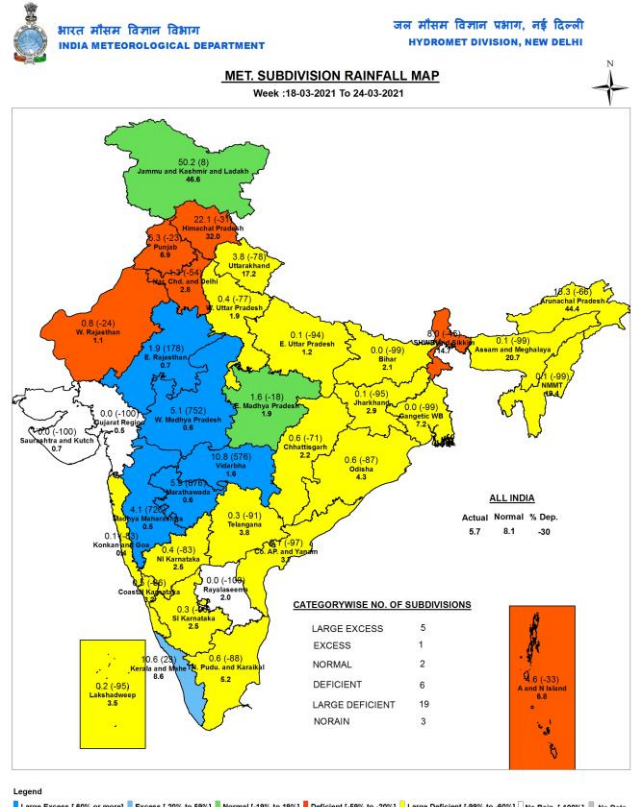
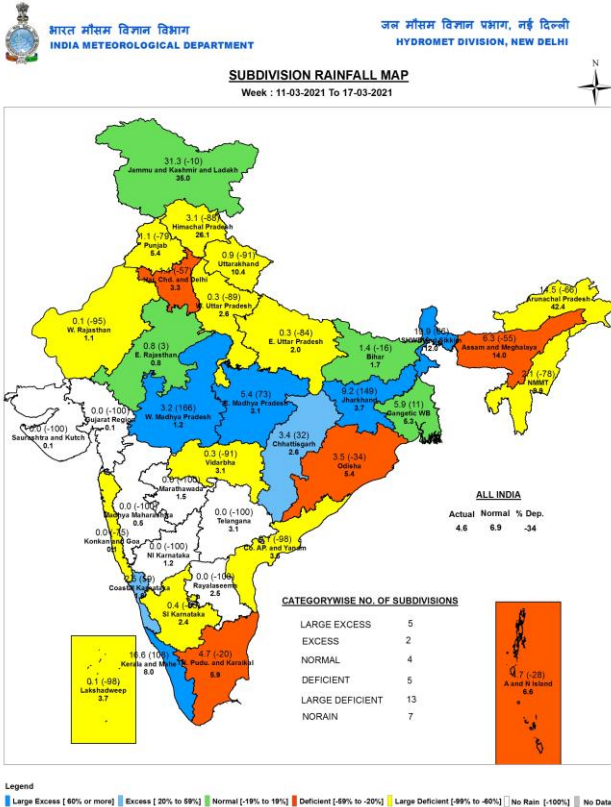
**&**

**India Meteorological Department (IMD),  
Earth System Science Organization**

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

## Realized Rainfall

(11<sup>th</sup> to 24<sup>th</sup> March, 2021)



- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), East Rajasthan, Madhya Pradesh and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Vidarbha and Coastal Karnataka.
- Below Normal rainfall / no rain occurred in both the weeks over rest of the country.

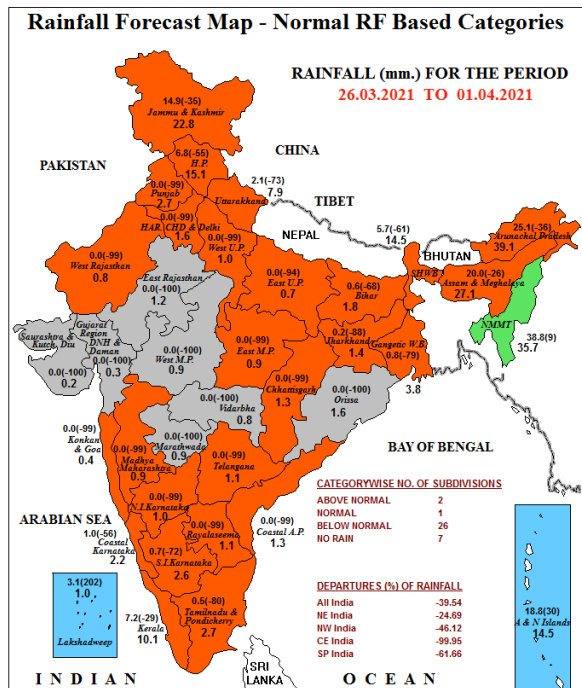
# Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 24 March)

(26<sup>th</sup> March to 8<sup>th</sup> April, 2021)

## भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

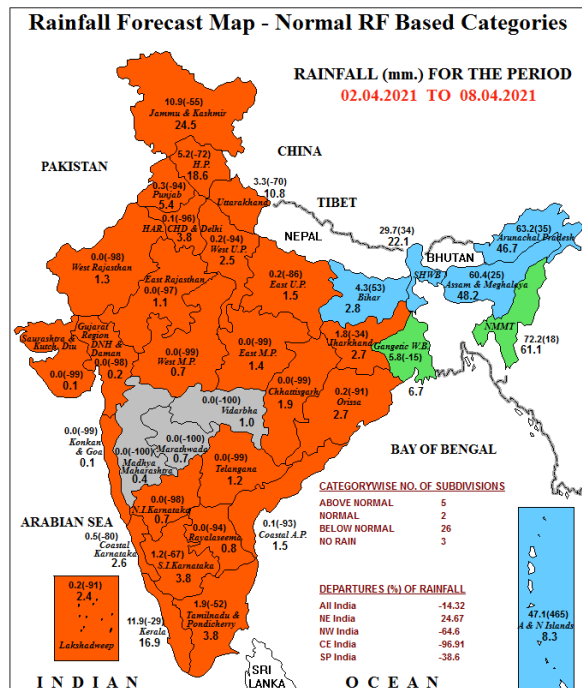


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL [-20% TO -99%] ■ NO RAIN [-100%] ■ NO DATA

NOTES:  
 [a] Rainfall figures are based on MME Forecast data.  
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

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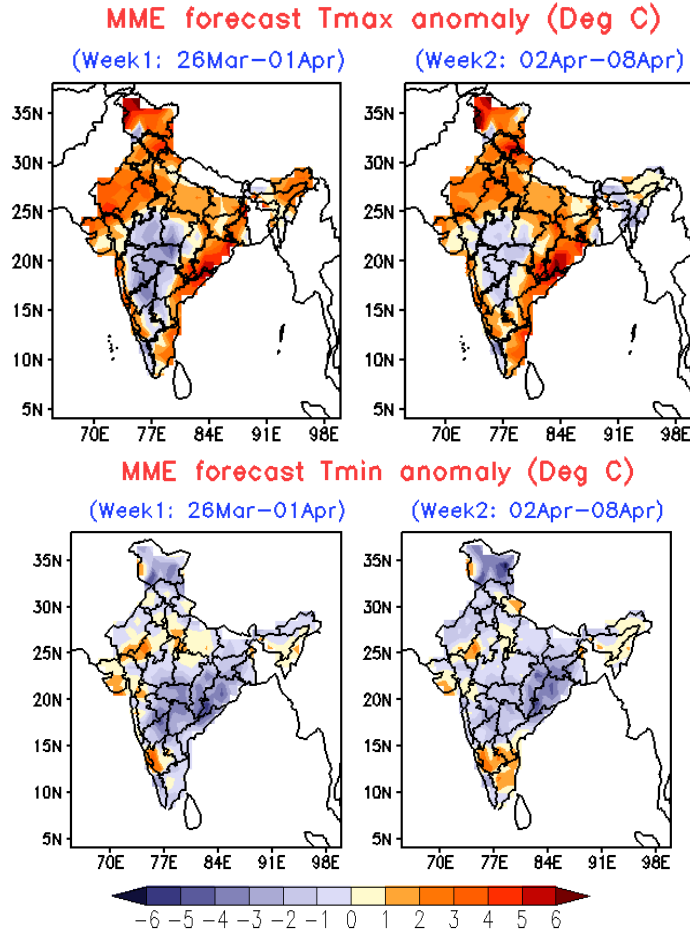


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NOTES:  
 [a] Rainfall figures are based on MME Forecast data.  
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

- **Week 1 (26.03.2021 to 01.04.2021) and Week 2 (02.04.2021 to 08.04.2021):** Western Disturbance associated light to moderate rainfall likely over Jammu & Kashmir and Ladakh (UTs) and adjoining regions and Northwest India mainly in week 1. Possibility of slight rainfall over extreme north India in the subsequent two weeks also. Some parts of the south peninsula (Coastal Tamil Nadu and coastal Kerala also likely to get light rainfall during the period. North-eastern parts of India will get rainfall associated with thunderstorm activity in week 1 with likely increase of rainfall from week 2. South-eastern part of BoB and adjoining Andaman Sea will be active in week 1 and week 2.

**Maximum and Minimum temperature anomaly ( $^{\circ}$ C) forecast  
for next 2 weeks (IC – 24 March)  
(26<sup>th</sup> March to 8<sup>th</sup> April, 2021)**



**Maximum Temperature (Tmax)**

- **Week 1 (26.03.2021 to 01.04.2021) and Week 2 (02.04.2021 to 08.04.2021):** The Tmax over the entire northern India, Northwest India, Northeast India and some coastal parts of Odisha will experience above normal Tmax during the period from week 1 to week 2. Some parts of west central India will have slightly below normal Tmax in week 1 and week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (26.03.2021 to 01.04.2021) and Week 2 (02.04.2021 to 08.04.2021):** Warm anomalies over isolated regions of Northwest India and parts of the south peninsula in week 1 and week 2. However, over most of India Tmin will be lower than normal during week 1 and week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 08 April 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 35.7 mm (39% excess) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) is below normal for week-1 and week-2.

- Due to increase in temperature, there is a chance of sucking pest incidence in vegetables. To control, it is advised to apply 2% Neem oil emulsion once in a week or spray *Lecanicillium lecanii* at 20 g per litre of water.
- Under prevailing dry weather condition, it is advised to give a heavy irrigation once in a fortnight in cardamom.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 6.3 mm (-66% large deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) is below normal for week-1 and week-2.

- Prevailing weather condition is favorable for mealy bug incidence in Guava. To control, it is advised to apply Triozhophos 2 ml+ Neem oil 5 ml/litre or Phosalone 35 EC 1.5 ml+ Neem oil 5 ml/litre.
- Prevailing weather condition is favorable for rhinoceros beetle incidence in coconut. To control, apply mixture of either Neem seed powder + sand (1:2) @150 g per palm or Neem seed kernel powder + sand (1:2) @150 g per palm in the base of the 3 inner most leaves in the crown.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 4.3 mm (116% large excess), Marathwada is 6.1 mm (22% excess), Vidarbha is 11.7 mm (26% excess) and Konkan region 0.2 mm (-83% large deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) over Konkan and Madhya Maharashtra is below normal and Marathawada and Vidharbha is no rainfall for week-1 and Vidharbha, Marathawada and Madhya Maharashtra is no rainfall and below normal over Konkan for week-2.

#### Marathwada

- Due to the chances of thunderstorm and rain, it is advised to harvest the mature grapes as early as possible and store them at safe places.
- Under prevailing weather condition, there is a chance of powdery mildew disease in cucurbits. For management, it is advised to spray Myclobutanil 10% WP @ 10 g per 10 litres of water during clear weather condition.

### *Vidharbha*

- Under prevailing weather condition, cultivation of summer vegetables like bitter gourd, tinda, ridge gourd, smooth gourd, bottle gourd, cowpea, cluster bean, coriander, etc. is advised.
- After current spell of rain, it is advised for deep summer ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds.

### *Madhya Maharashtra*

- To protect fruit crops from high temperature, it is advised to apply Bordeaux mixture to their stem.
- Under prevailing high temperature, it is advised to provide irrigation in suru sugarcane at 8-10 days interval in summer.

### *Konkan*

- Due to the chances of increase in temperature, it is advised to apply 150 to 200 litres of water to nut bearing trees and to newly planted cashewnut orchard @ 15 litres of water at 15 days intervals. It is also advised to use straw mulch.
- Under prevailing weather condition, there is a possibility of incidence of shoot and fruit borer in brinjal. If incidence is noticed, it is advised to collect and destroy all infected shoots and fruits and spray Fenvalerate @ 10 ml or Deltamethrin 2.8%EC @ 10 ml per 10 litres of water.

### **Hisar**

Amount of rainfall received over Hisar is 4.3 mm (-61% large deficit) during 01 March 2021 - 26 March 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) over Hisar is below normal for week-1 and week-2.

- Under prevailing dry weather, farmers are advised to keep vigil on insect/pests in sugarcane crop and to apply need-based irrigation.
- It is advised to keep the animals under shed and provide 50 g iodized salt and 50 - 100 g mineral mixture daily along with animal feed/fodder.

### **Karnataka**

Rainfall received during 01 March 2021 - 26 March 2021 over South Interior Karnataka is 0.7 mm (-92% large deficit) and North Interior Karnataka is 0.6 mm (-89% large deficit). The extended range weather forecast (rainfall) for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and week-2.

### *South Interior Karnataka*

- For the management of leaf hopper in mango orchard, spraying of Carbaryl, 50 WP @ 4g/litre

of water or Imidachlorprid @ 0.3 ml/litre of water is advised.

#### *North Interior Karnataka*

- Under prevailing weather condition, harvesting of chickpea, sorghum, safflower and wheat is advised.

#### **Uttar Pradesh**

Rainfall received during 01 March 2021 - 26 March 2021 over East Uttar Pradesh 0.4 mm (-93% large deficit) and West Uttar Pradesh is 0.7 mm (-91% large deficit). The extended range weather forecast (rainfall) for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

#### *Western Uttar Pradesh*

- Due to high temperature and cloudy weather, there is a chance of attack of pod borer in pigeon pea. To control, it is advised to spray Chlorpyrifos 50% + Cypermethrin 5% EC @ 1 litre with 500 to 600 litres water solution.
- Farmers are advised to prepare their fields for the sowing of *zaid* urd, mung bean, maize and sunflower.

#### **Jammu**

Amount of rainfall received over Jammu is 96.1 mm (-30% deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to presence of sufficient soil moisture, sowing of summer vegetables and transplanting of tomato, brinjal and chillies from nursery to field is advised.
- To protect the horticultural trees against sunburn and fungal diseases, it is advised to do white wash the tree trunks with slaked lime and Copper sulphate.

#### **West Bengal**

Amount of rainfall received over West Bengal is 5.9 mm (-75% deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over West Bengal is below normal for week-1 and normal for week-2.

- For the management of sheath blight in wheat crop, it is advised to spray Propiconazole 25% EC @ 1 ml/litre or Validamycin @ 2 g/litre of water.
- Due to the increase in temperature, there is a chance of the attack of mites in Mango orchard. To control, it is advised to apply 1-2 g Sulphur pesticide per litre of water.

## **Odisha**

Amount of rainfall received over Odisha is 4.1 mm (-78% large deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Odisha is no rainfall for week-1 and below normal for week-2.

- Under prevailing weather condition, there is a chance of purple blotch and stemphylium blight disease in onion crop. To manage, it is advised to spray Mancozeb 75% WP @ 600 g/acre or Difenoconazole 25% EC @ 200ml/acre by mixing in 200 litres of water at 15 days interval.
- Under prevailing weather condition, there are chances of infestation of sucking pest in chilli crop. It is advised to spray Neem-based pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre by mixing in 200 litres of water.

## **Assam**

Amount of rainfall received over Assam is 23.5 mm (-58% deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Assam is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers may continue nursery sowing of ahu rice seeds under assured irrigation facilities. Recommended semi-dwarf varieties are IR-36, Lachit, Chilarai, Dishang.
- Due to the congenial weather condition for fruit rot or Anthracnose disease in the chili plantations, keep a vigil and for control, it is advised to spray Glyodin or Maneb pesticide as per the recommended dose.

## **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 37.1 mm (-63% large deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Maintain room temperature of 25-28°C and relative humidity of 80-85% for successful growing of mushrooms.
- For the management of thrip attack in early sown onion, it is advised to spray Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) during clear weather condition.

## **Bihar**

Amount of rainfall received over Bihar is 1.4 mm (-78% large deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Bihar is below normal for week-1 and above



normal for week-2.

- Regular monitoring for thrips infestation in onion is advised. If the insect population is above ETL, spray Profenofos @ 1ml /litre or Imidacloprid @ 1ml /4 litres of water.
- Under prevailing weather, sowing of mung bean and urd bean is also advised with recommended varieties of mung bean (Pusa Vishal, Samrat, SML-668, HUM-16 and Sona) and urd bean (Pant Urd-19, Pant Urd-31, Ultra and Navin).

### **Madhya Pradesh**

Amount of rainfall received over East Madhya Pradesh is 6.9 mm (-28% deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Madhya Pradesh is below normal for week-1 and week-2.

- Field preparation for sowing of *zaid* crops like summer soybean, mung, urd and vegetables is advised.

### **Gujarat**

Amount of rainfall received over Gujarat is 0.0 mm (-100% no rainfall) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Gujarat is no rainfall for week-1 and below normal for week-2.

- For the management of thrips in chilli, it is advised to spray Carbofuran 3G @ 17 kg/h at 15 days after transplanting.
- To minimize population of whitefly in brinjal, it is advised to spray Neem oil @ 50 ml or Difenthiuron 50 WP @ 16 g /10 litres water.

### **Jharkhand**

Amount of rainfall received over Jharkhand is 9.3 mm (-27% deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Jharkhand is below normal for week-1 and week-2.

- For the management of leaf blight disease in cucurbitaceous vegetables, it is advised to spray Karathen @ 1 ml per litre of water.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 4.0 mm (-55% deficit) during 01 March 2021 - 26 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 March - 01 April 2021 and 02 - 08 April 2021) on rainfall over Chhattisgarh is no rainfall for week-1 and below

normal for week-2.

- Due to the chances of light rainfall and cloudy weather condition, there is a possibility of outbreak of stem borer in summer rice crop. To manage, it is advised spray Rynexpyr (Fertera) @ 10 kg/ha or Kartap @ 20 kg/ha.
- Under prevailing weather condition, inter-culture, fertilizer application, earthing followed by irrigation is advised in sugarcane crop at knee height stage.

***Disclaimer:***

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