



## **National Agromet Advisory Service Bulletin**

based on

### **Extended Range Weather Forecast (ERFS)**

**Validity: 26 February - 11 March 2021**

**Date of issue: 26 February 2021**

Issued by

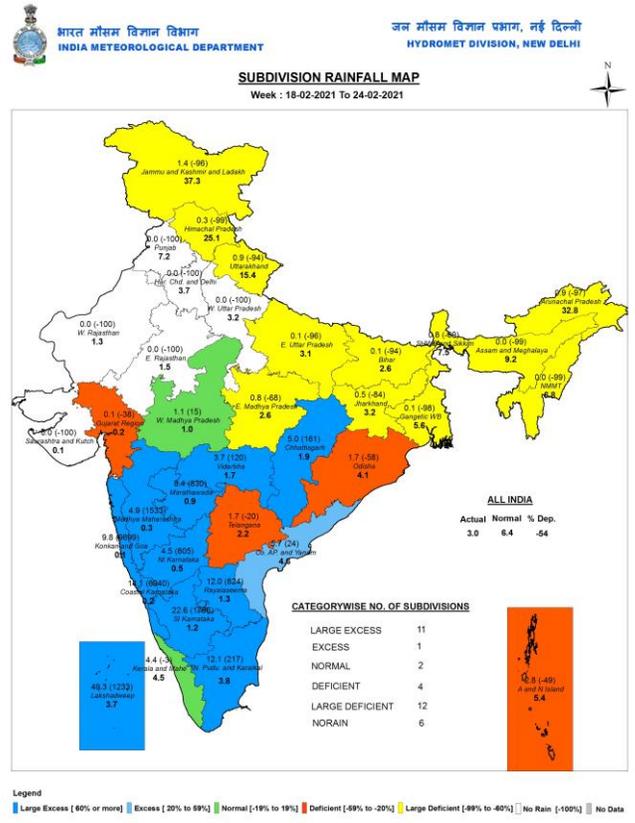
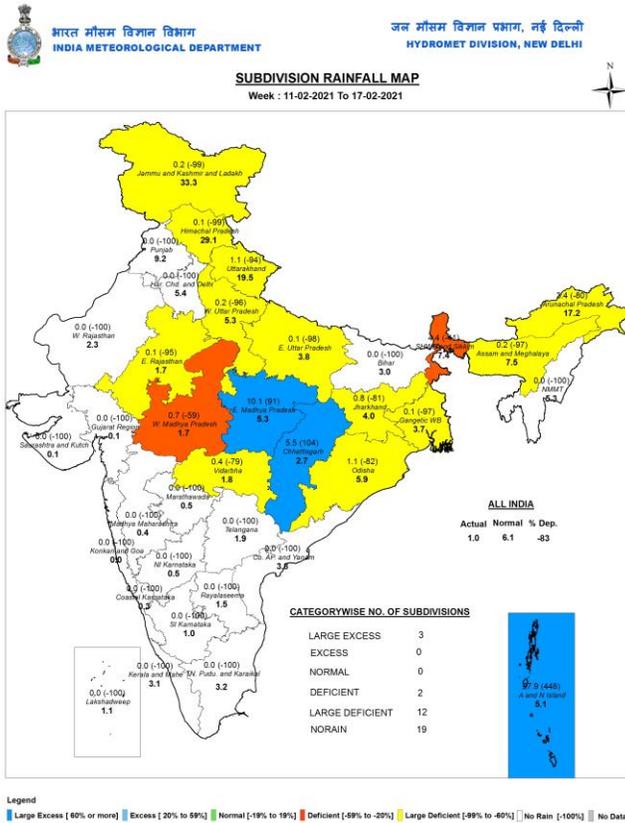
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

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

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

## Realized Rainfall (11<sup>th</sup> to 24<sup>th</sup> Feb., 2021)



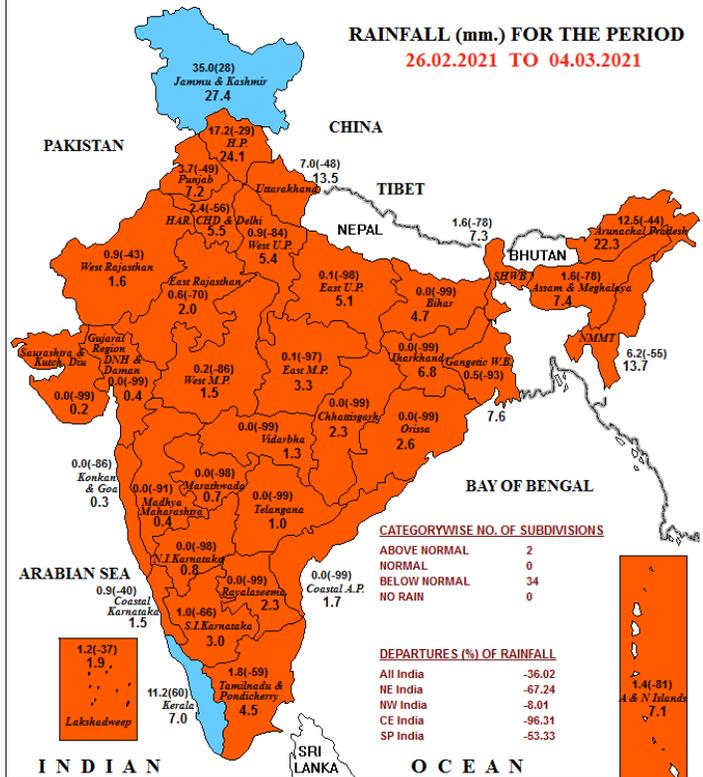
- Normal or above normal rainfall occurred in both the weeks in Chhattisgarh.
- Normal or above normal rainfall occurred in either of the two weeks in West Madhya Pradesh, East Madhya Pradesh, Maharashtra & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal, Andaman & Nicobar Islands and Lakshadweep.
- 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 Feb.)**  
**(26<sup>th</sup> Feb. to 11<sup>th</sup> March, 2021)**

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

#### Rainfall Forecast Map - Normal RF Based Categories

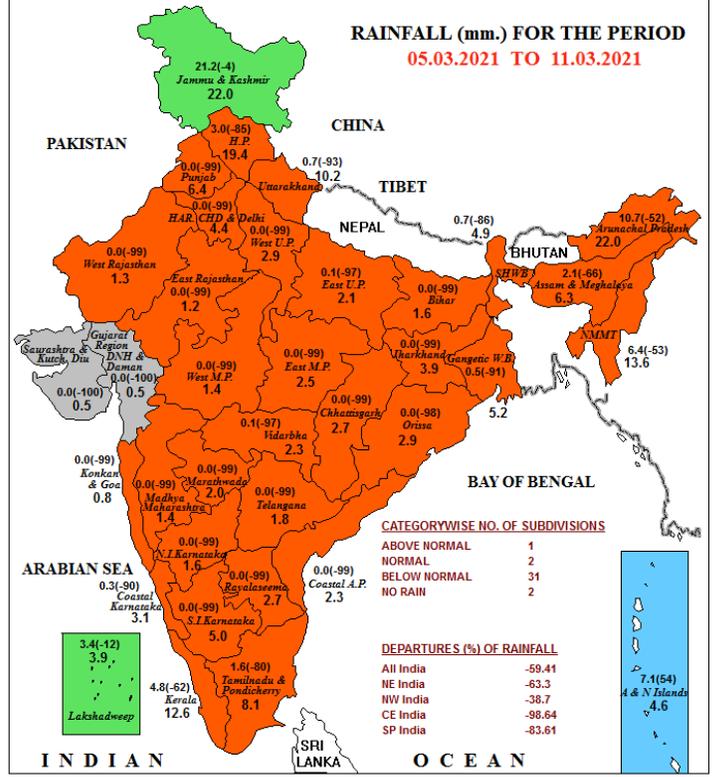


**LEGEND:** ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%)  NO DATA

**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.

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

#### Rainfall Forecast Map - Normal RF Based Categories

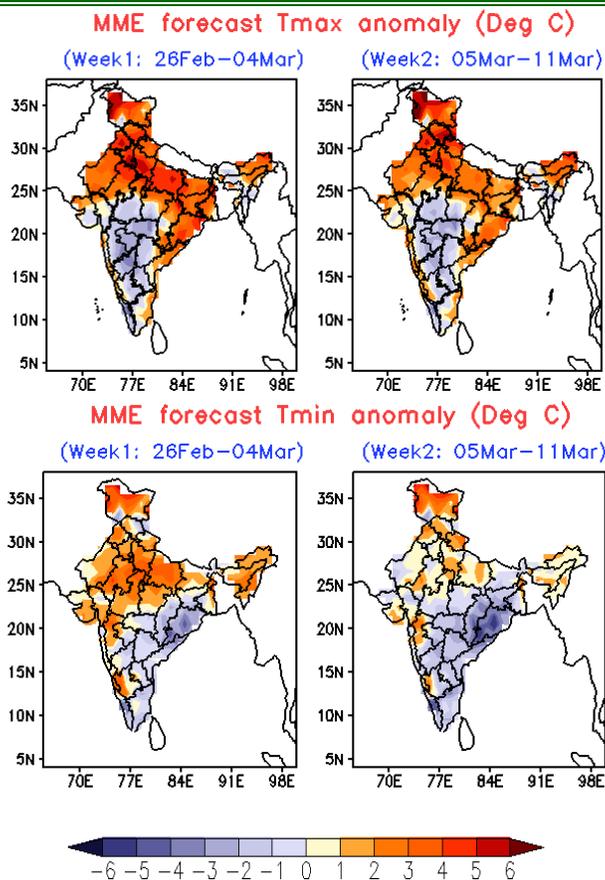


**LEGEND:** ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%)  NO DATA

**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.

- **Week 1 (26.02.2021 to 04.03.2021) and Week 2 (05.03.2021 to 11.03.2021):** Western Disturbance associated light to moderate rainfall likely over Jammu & Kashmir and adjoining regions in week 1 and week 2. Some parts of the south peninsula may get light/moderate rainfall.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 24 Feb.)  
(26<sup>th</sup> Feb. to 11<sup>th</sup> March, 2021)**



**Maximum Temperature (Tmax)**

- **Week 1 (26.02.2021 to 04.03.2021) and Week 2 (05.03.2021 to 11.03.2021):** The Tmax over the entire northern India, Northwest India, Northeast India will experience above normal Tmax during the period. Some parts of West-central India will have slightly below normal Tmax in week 1.

**Minimum Temperature (Tmin)**

- **Week 1 (26.02.2021 to 04.03.2021) and Week 2 (05.03.2021 to 11.03.2021):** Warm anomalies likely over Northwest India including Gujarat region and adjoining central India and also extreme north India in week 1 and week 2, although the positive Tmin anomalies slightly decrease in week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 11 March 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 113.0 mm (433% large excess) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, there is a chance of nematode attack in banana. To control, it is advised to apply Carbosulfan 6G @ 20 g per pit at the time of planting.
- Due to increase in temperature, there is a chance of sucking pest attack in vegetable crops. It is advised to spray Neem based insecticide on vegetable crops at 10 days interval or use *Verticillium lecanii* @ 20 g per litre of water.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 150.6 mm (454% large excess) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) is below normal for week-1 and week-2.

- Prevailing weather condition is favorable for rhinoceros beetle incidence in coconut. To control, it is advised to 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
- Prevailing weather condition is also favorable for blossom midge incidence in jasmine. It is advised to spray Thiamethoxam 2.5% WG @ 0.75 g/litre or Flufenoxuron @ 1.5 g/litre.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 22.5 mm (703% large excess), Marathwada is 10.8 mm (61% large excess), Vidarbha is 5.0 mm (-71% large deficit) and Konkan region 15.4 mm (2107% large excess) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) over Vidharbha, Marathawada, Madhya Maharashtra and Konkan is below normal for week-1 and week-2.

#### Marathwada

- Due to cloudy and rainy weather condition, there is a chance of powdery mildew and blight disease in mango. To control, it is advised to spray Hexaconazole @ 5 ml per 10 litres of water.
- Due to the chances of thunderstorm and hail, farmers are advised for bunch propping in banana orchards sown in the month of June.

#### Vidharbha

- Under prevailing weather condition, cultivation of cowpea for vegetable purpose is advised.

Recommended varieties viz., Pusa Phalguni, Pusa Dofasali, and Pusa Rituraj.

- Under prevailing weather condition, need based irrigation and intercultural operation in summer groundnut, sesame and sunflower is advised.

#### *Madhya Maharashtra*

- Under prevailing weather, harvesting of *rabi* sorghum and wheat crop is advised at proper maturity stage.

#### *Konkan*

- Due to chances of cloudy weather condition, there is a possibility for incidence of aphids on lablab crop. If incidence is noticed, spray Dimethoate 30% EC @ 12 ml per 10 litres of water during clear weather.
- Due to the chances of light rain and cloudy weather conditions, there is a possibility of incidence of sucking pest in brinjal, chilli and tomato crops. For the management of sucking pest, it is advised to use yellow sticky cards in the field or spray Dimethoate 30% EC @ 15 ml per 10 litres of water during clear weather.

#### **Hisar**

Amount of rainfall received over Hisar is 26.0 mm (-12% deficit) during 01 January 2021 - 26 February 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) over Hisar is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to keep vigil on insect/pests in sugarcane crop and also go for need-based irrigation.
- Due to lower night temperature, high winds and cloudy conditions, 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 January 2021 - 26 February 2021 over South Interior Karnataka is 49.2 mm (795% large excess) and North Interior Karnataka is 12.6 mm (152% large excess). The extended range weather forecast (rainfall) for next two weeks (26 February - 04 March 2021 and 05 - 11 March 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 Imidachlorpid @ 0.3 ml/litre of water is advised.

#### *North Interior Karnataka*

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

advised.

- Vaccination of livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia* is advised.

### **Uttar Pradesh**

Rainfall received during 01 January 2021 - 26 February 2021 over East Uttar Pradesh 1.7 mm (-93% large deficit) and West Uttar Pradesh is 16.1 mm (-42% deficit). The extended range weather forecast (rainfall) for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

#### *Western Uttar Pradesh*

- Due to chances of increase in maximum temperature, farmers are advised to irrigate their wheat crops.
- Due to high temperature and cloudy weather, there is a chance of attack of pod borer in chickpea. It is advised to spray Fenvelret 20% EC @ 2.0 litres or Novaluron 10% EC @ 750 ml/ha with 500 to 600 litres water solution.

### **Jammu**

Amount of rainfall received over Jammu is 100.6 mm (-53% deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Jammu is above normal for week-1 and normal for week-2.

- Prevailing weather condition is favourable for yellow rust in wheat crop. It is advised to apply Propaconazole (Tilt) @ 25ml in 25 litres of water/kanal and repeat same after 10-15 days during clear weather.
- Under prevailing weather, field preparation for solanaceous and cucurbitaceous vegetable crops is advised. Transplanting is recommended in tomato, brinjal and chilli crops.

### **West Bengal**

Amount of rainfall received over West Bengal is 1.1 mm (-97% large deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over West Bengal is below normal for week-1 and week-2.

- For the management of mango hopper in mango orchard, it is advised to spray Imidachloprid @ 3ml/10 litres of water or Acetamiprid @ 1 ml/litre of water.
- To control shoot and fruit borer in brinjal crop, it is advised to apply Spionosad @ 1.0 ml/liter of water.

## **Odisha**

Amount of rainfall received over Odisha is 4.1 mm (-85% large deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Odisha is below normal for week-1 and week-2.

- Due to foggy weather, there is a chance of infestation of sucking pest in mango. To manage, it is advised to spray Imidacloprid 17.8% SL @ 5 ml/15 litres of water or Thiamethoxam 25% WG @ 3 ml/15 litres of water or Acetamiprid 20% SP @ 4 g/15 litres of water.
- Under prevailing weather condition, there are chances of infestation of sucking pest in chilli crop. To manage, 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 9.8 mm (-78% large deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Assam is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to continue the land preparation for sowing of summer green gram and black gram. Recommended varieties for green gram are K-851, Pratap and for black gram are Pant U-19 and SBC-40.
- Under prevailing weather condition, harvesting of matured potato and mustard crop is advised.

## **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 52.6 mm (-71% large deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Farmers are advised to maintain room temperature of 25-28°C and relative humidity around 80-85% for successful cultivation of mushrooms.
- Nursery preparation for chilies, tomato and brinjal crops in polyhouse is advised.
- For the management of thrip attack in early sown onion, spray Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) during clear weather condition.

## **Gujarat**

Amount of rainfall received over Gujarat is 2.6 mm (8.6% large excess) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Gujarat is below normal for week-1

and no rainfall for week-2.

- Under prevailing weather condition, land preparation for sowing of summer pearl millet is advised. Recommended varieties are GHB-526, GHB-538, GHB-558.
- Regular monitoring of fruit and shoot borer in brinjal crop is advised. To control, install 10-15 pheromone traps per ha or in case of heavy incidence, spray of Chlorpyrifos 50 EC 20 ml or Emamectin benzoate 5 SG 3 g or Thiodicarb 50 WP 10 g in 10 litres of water.

### **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 34.8 mm (371% large excess) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Andhra Pradesh is below normal for week-1 and week-2.

- Current weather condition is favorable for the incidence of fall army worm in maize (especially in Vizianagaram, Visakhapatnam, Chittoor, East Godavari, West Godavari and Ananthapuramu districts). To control, spraying of Thiodicarb @ 2g or Emamectin benzoate @ 0.4 g/litre of water is recommended.
- Present weather conditions are also favorable for sucking pests incidence in groundnut in Srikakulam, Vizianagaram, Visakhapatnam, Nellore, Kadapa, Chittoor, Ananthapuramu and Kurnool districts. To control, spray Dimethoate @ 2.0 ml or Imidacloprid @ 0.3 ml/litre of water.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 40.6 mm (-58% deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Due to rise in temperature, monitoring of sucking pest in different fruit crops is advised and manage as per the recommendations.
- Under prevailing weather, it is advised to prepare the fields for summer vegetables like tomato, brinjal, chilli, capsicum and cucurbits etc.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 12.7 mm (-38% deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Chhattisgarh is below normal for

week-1 and week-2.

- Due to congenial weather condition, there may be aphid infestation in vegetables, fruit and shoot borer in brinjal. Hence, farmers are advised to keep a watch over the crops and adopt integrated pest management practices like light trap, pheromone trap, bird perch etc. for initial control.
- Due to increase in temperature, it is advised to provide irrigation in summer vegetable crops.

### **Jharkhand**

Amount of rainfall received over Jharkhand is 3.7 mm (-87% large deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Jharkhand is below normal for week-1 and week-2.

- For the management of pumpkin beetle in cucurbitaceous plant, it is advised to spray Chlorpyrifos @ 2 ml per litre of water during clear weather or broadcast the coal/wood ash mixed with kerosene oil on the plants during early morning.
- Farmers may go for sowing green gram with recommended varieties after receiving good rain.

### **Bihar**

Amount of rainfall received over Bihar is 0.7 mm (-96% large deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Bihar is below normal for week-1 and week-2.

- Weather conditions are favourable for sowing of Okra with recommended varieties Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav.
- Regular monitoring is advised for thrips infestation in onion. If the insect population is above ETL, spray Profenofos @ 1 ml/litre or Imidacloprid @ 1ml/4 litres of water.

### **Madhya Pradesh**

Amount of rainfall received over Madhya Pradesh is 12.6 mm (-60% large deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Madhya Pradesh is below normal for week-1 and week-2.

- Due to increase in temperature, a light irrigation is advised in the moisture deficit crop fields.
- Field preparation for sowing of *zaid* crops like summer soybean, mung, urd and vegetables is

advised.

### **Punjab**

Amount of rainfall received over Punjab is 13.2 mm (-72% large deficit) during 01 January 2021 - 26 February 2021. The extended range weather forecast (rainfall) provided for next two weeks (26 February - 04 March 2021 and 05 - 11 March 2021) on rainfall over Punjab is below normal for week-1 and week-2.

- Prevailing weather is congenial for the spread and development of white rust in oilseed crops. To protect, spraying of Ridomil Gold @ 250 g/100 litres of water per acre is advised.
- Because of rise in temperature, regular monitoring of sucking pest in different fruit crops is advised and management should be done as per the recommendations.

### ***Disclaimer:***

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