



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity:** 29 January – 11 February 2021

**Date of issue:** 29 January 2021

Issued by

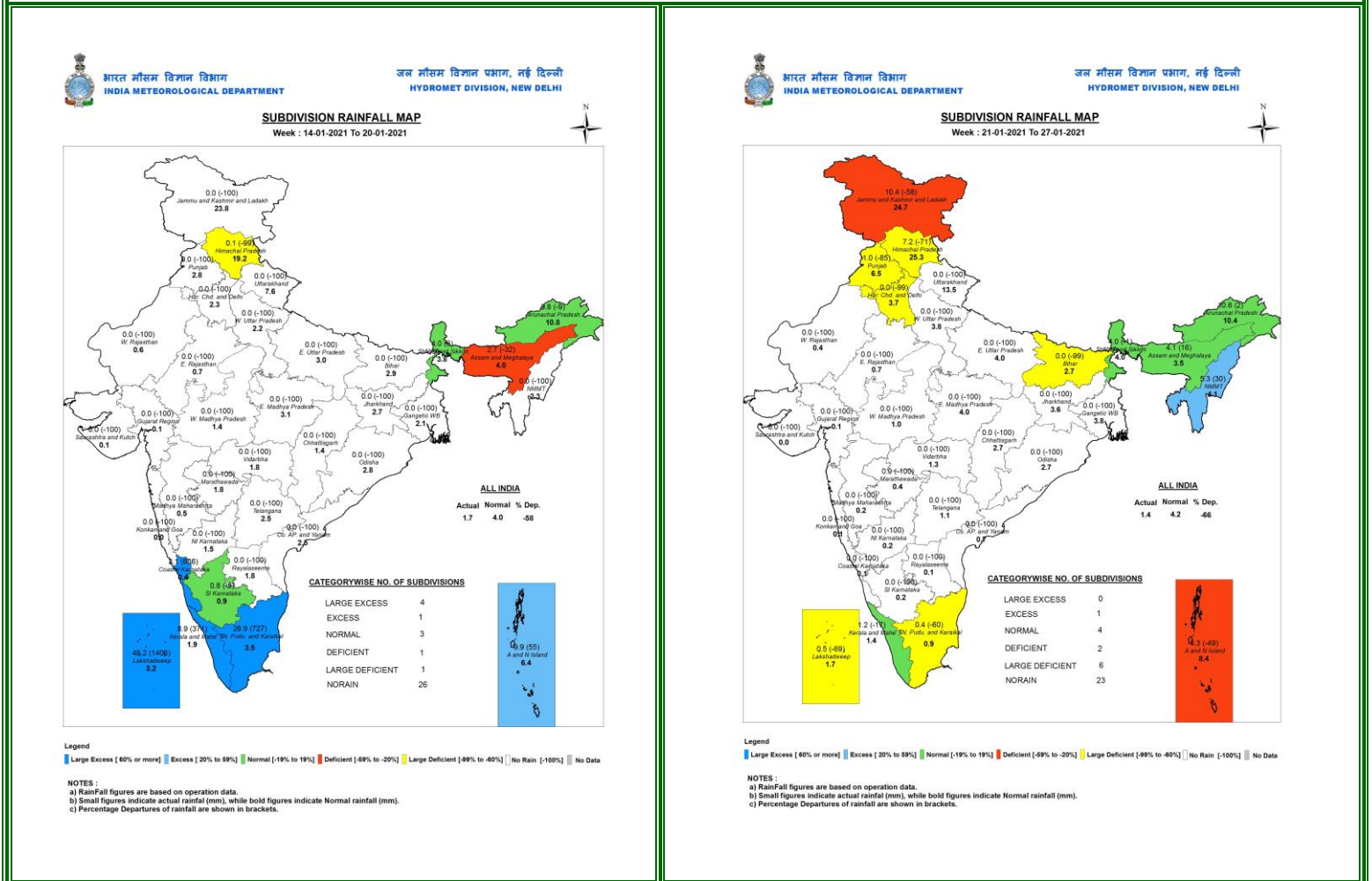
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

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

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

## Realized Rainfall (14<sup>th</sup> Jan. to 27<sup>th</sup> Jan., 2021)



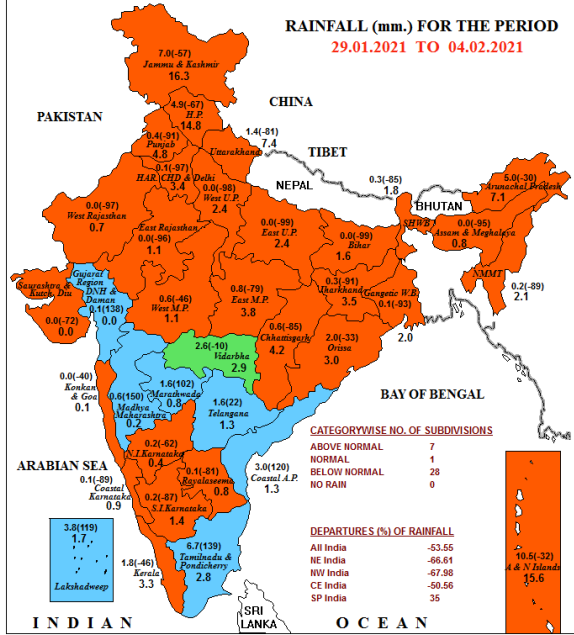
- Normal or above normal rainfall occurred in both the weeks in Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka South Interior Karnataka, Lakshadweep and Andaman & Nicobar Islands.
- 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 – 27 Jan.) (29<sup>th</sup> Jan. to 11<sup>th</sup> Feb., 2021)

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

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

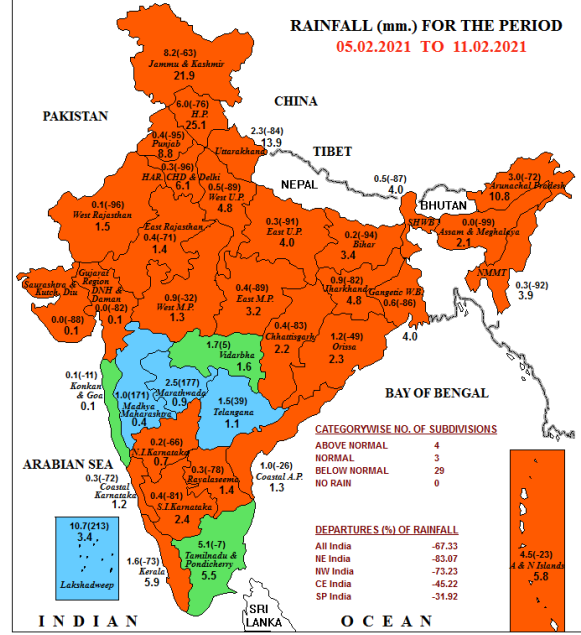


**LEGEND:** ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

**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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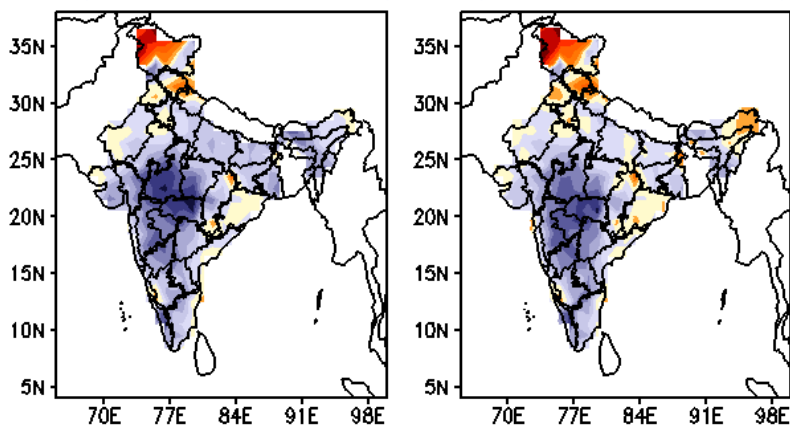
- Week 1 (29.01.2021 to 04.02.2021) and Week 2 (05.02.2021 to 11.02.2021):** Western Disturbance associated light rainfall is likely over extreme north (Jammu & Kashmir and Ladakh (UTs), Uttarakhand, Himachal Pradesh) India during the entire period. However, the rainfall will be below normal. Tamil Nadu will get rainfall during week 1 and week 2. Rainfall likely over the south peninsula and adjoining central India.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 27 Jan.)  
(29<sup>th</sup> Jan. to 11<sup>th</sup> Feb., 2021)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 29Jan–04Feb)

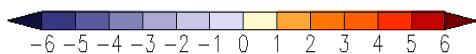
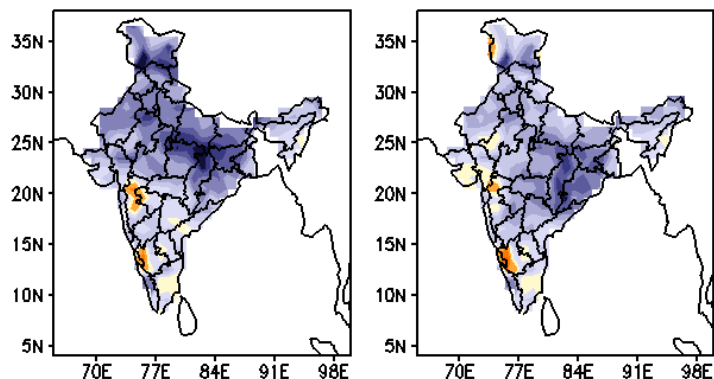
(Week2: 05Feb–11Feb)



**MME forecast Tmin anomaly (Deg C)**

(Week1: 29Jan–04Feb)

(Week2: 05Feb–11Feb)



**Maximum Temperature (Tmax)**

- **Week 1 (29.01.2021 to 04.02.2021) and Week 2 (05.02.2021 to 11.02.2021):** Above normal Tmax likely over the eastern belt over Odisha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh and extreme north India during the period. Below normal Tmax likely over the North West, central and southern parts of India during week 1 and week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (29.01.2021 to 04.02.2021) and Week 2 (05.02.2021 to 11.02.2021):** Below normal Tmin likely over northern and north-western India during week 1 and week 2 with east-central parts (south Uttar Pradesh & adjoining north Madhya Pradesh, Jharkhand & Bihar, Chhattisgarh and interior Odisha and adjoining regions) will have slightly higher negative anomalies compared to that over the northwest India in week 1 and week 2.

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

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 105.5 mm (1288% large excess) during 01 January 2021 - 29 January 2021. The extended range weather forecast for next two weeks (29 January - 04 February and 05 - 11 February 2021) is below normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of attack of sucking pests in cucurbits, brinjal, tomato. It is advised to apply 2% Neem oil emulsion once in a week or spray *Lecanicillium lecani* @ 20 g per litre of water.
- Under prevailing weather condition, there is a chance of nematode attack in banana. It is advised to apply Carbosulfan 6G @ 20 g per pit at the time of planting.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 138.3 mm (822% large excess) during 01 January 2021 - 29 January 2021. The extended range weather forecast for next two weeks (29 January - 04 February and 05 - 11 February 2021) is above normal for week-1 and normal for week-2.

- Present weather condition is favorable for smut disease in sorghum. To prevent, it is advised to treat the seed with Carboxin (Vitavax) @ 2g/kg or Captan/Thiram 4g/kg of seed.
- Prevailing weather condition is favorable for mealy bug incidence in guava. It is advised to apply Triozophos 2 ml + Neem oil 5 ml/litre or Phosalone 35 EC 1.5 ml + Neem oil 5 ml/litre or release *Cryptolaemous montrouzieri* beetles @ 10/tree.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 18.5 mm (1136% large excess), Marathwada is 3.0 mm (-25% deficit), Vidharbha is 0.7 mm (-92% large deficit) and Konkan region 5.6 mm (1029% large excess) during 01 January 2021 - 29 January 2021. The extended range weather forecast for next two weeks (29 January - 04 February and 05 - 11 February 2021) over Madhya Maharashtra and Marathawada is above normal, Konkan is below normal and Vidharbha is normal for week-1 and above normal over Madhya Maharashtra and Marathwada, Vidharbha and Konkan are normal for week-2.

#### Marathwada

- For the management of pod borer in chickpea crop, it is advised to spray 5% NSKE or Quinalphos 25% EC @ 20 ml or Emamectin Benzoate 5% @ 4.5 g per 10 litres of water.
- For the management of sigatoka disease in banana orchard, it is advised to spray Propiconazole 10 ml + Sticker per 10 litres of water.

#### Vidarbha

- Under prevailing weather condition, normal sowing of summer sesame and sunflower is

advised.

### *Madhya Maharashtra*

- Summer groundnut and sorghum may be sown between 15 January to 15 February.

### *Konkan*

- Due to the chance of decrease in humidity, there is a possibility of pre-mature fruit drops in mango. To prevent the fruit drops, apply 150 to 200 litres of water per tree after fruit setting at 15 days intervals for 3 to 4 times. It is also advised to use straw mulch to reduce evaporation losses.
- Under the prevailing weather conditions, there is a possibility for incidence of leaf miner in watermelon. If incidence is noticed, spray 4% NSKE or Azadirachtin 10000 ppm @ 20 ml or Profenophos 50% EC @ 20 ml or Lambda cyhalothrin 5% EC @ 6 ml per 10 litres of water.

### **Hisar**

Amount of rainfall received over Hisar is 21.5 mm (72% large excess) during 01 January 2021 - 29 January 2021. The extended range rainfall forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) over Hisar is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to do intercultural operations in wheat to conserve soil moisture and also apply need-based irrigation.
- Under prevailing cold conditions, it is advised to keep the animals under shed and provide 50 g iodized salt and 50 to 100 g mineral mixture daily along with animal feed/fodder.

### **Karnataka**

Rainfall received during 01 January 2021 - 29 January 2021 over South Interior Karnataka is 26.5 mm (1164% large excess) and North Interior Karnataka is 8.1 mm (188% large excess). The extended range weather forecast for next two weeks (29 January - 04 February and 05 - 11 February 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and week-2.

#### *South Interior Karnataka*

- To protect pulse seeds from storage pests, it is advised to apply oils of castor/ linseed/ honge/ neem @ 3-5 ml per kg of seeds.
- To prevent birds from direct sunshine, it is advised to locate the poultry in such a way that long axis is in east-west direction.

#### *North Interior Karnataka*

- Farmers are advised to take up the plant protection measures in horticultural crops like citrus, pomegranate, grapes and field crops like onion, chickpea and safflower.

- Harvesting of pigeon pea and onion is advised.

### **Uttar Pradesh**

Rainfall received during 01 January 2021 - 29 January 2021 over East Uttar Pradesh 0.3 mm (-97% large deficit) and West Uttar Pradesh is 13.1 mm (14% excess). The extended range weather forecast for next two weeks (29 January - 04 February and 05 - 11 February 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

#### *Western Uttar Pradesh*

- Under prevailing dry weather condition, farmers are advised to irrigate *rabi* crops.
- Due to foggy weather conditions, farmers are advised to watch for aphids in mustard crop. If observed, spray Chlorpyrifos 20% EC @ 1.0 litre/ha or Monocrotophos 36 % SL @ 500 ml/ha with 500-600 litres of water.
- For protection of fog and frost, light irrigation is advised in chickpea, pea and lentil which are at vegetative stages.

### **Jammu**

Amount of rainfall received over Jammu is 87.3 mm (normal rainfall) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Monitoring is advised in *rabi* pulses for wilt and blight attack. If observed, apply Bavistin/Carbendazim @ 3g/litre of water.
- Due to favourable weather conditions, there is a chance of *alternaria* blight in mustard crop. If observed, spray Mancozeb @ 0.25%.

### **West Bengal**

Amount of rainfall received over West Bengal is 0.0 mm (-100% large deficit) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over West Bengal is below normal for week-1 and week-2.

- Under prevailing weather conditions, late blight may appear in potato crop. It is advised to apply Mancozeb @ 4.0 g per litre of water.
- Transplanting of boro rice in the main field is advised.

### **Odisha**

Amount of rainfall received over Odisha is 0.0 mm (-99% large deficit) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Odisha is below normal for week-1 and week-2.

- Under prevailing weather condition, there may be the chance of incidence of tikka disease in groundnut. To manage, spray of Chlorothalonil 75% WP @ 400g/acre or Mancozeb 75% WP @ 600 g/acre or Hexaconazole 5% EC @ 300 ml/acre is advised.
- For the management of whiteflies in tomato and brinjal crop, 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 8.6 mm (-40% deficit) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Assam is below normal for week-1 and week-2.

- Prevailing cloudy and heavy fog weather conditions may trigger the incidence of wilt disease in the *rabi* pulse crops. To manage, it is advised to drench the field with Bavistin @ 1ml/litre of water.
- For the management of red ant and soil insects in potato crop, application of Thimet 10G @ 2-3 kg per bigha in the soil during earthing up is advised.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 37.6 mm (-54% deficit) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Due to higher chances of frost occurrence, farmers are advised to protect the crop by applying light irrigation and mulching during evening hours.
- Farmers are advised to protect the newly born calves and milch animals from cold. Arrange dry beddings for animals.
- Under prevailing weather conditions, nursery preparation for chilies, tomato and brinjal crops in poly house is advised.

### **Gujarat**

Amount of rainfall received over Gujarat is 2.5 mm (175% large excess) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Gujarat is above normal rainfall for week-1 and below normal for week-2.

- Due to cold weather condition, there is a possibility of infestation of thrips & aphids in crops. To control, spray of Dimethoate 10 ml or Trizophos 10 ml in 10 litres of water at 15 days interval.
- Under prevailing weather condition, sowing of summer gourd is advised with recommended



varieties GG-2, GG-5, GG-6, TAG-24, TG-26 and TG-37A.

### **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 22.8 mm (591% large excess) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Andhra Pradesh is below normal for week-1 and week-2.

- Present weather conditions are favorable for the incidence of maruca spotted pod borer in Vizianagaram, Nellore, Prakasam and Kurnool districts. To control, farmers are advised to spray Chlorpyrifos @ 2.5 ml or Acephate @ 1g/litre of water.
- Current weather condition is also congenial for hopper damage in mango. To control, spraying of Dimethoate @ 2ml or Chlorpyrifos @ 2.5ml/litre of water is advised.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 27.3 mm (-27% deficit) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Due to the chances of dry weather conditions, farmers are advised to apply need-based irrigation in the crops.
- It is advised to prepare nursery bed and sowing of the onion seeds under poly tunnels.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 1.8 mm (-82% large deficit) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Chhattisgarh is below normal for week-1 and week-2.

- Due to cloudy weather condition, there is a chance of aphid attack in mustard crop. It is advised to spray Imidacloprid 17.8 SL @ 250 ml per ha for 2 to 3 times at an interval of 10-15 days.

### **Rajasthan**

Amount of rainfall received over East Rajasthan is 15.5 mm (297% large excess) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Rajasthan is below normal for week-1 and week-2.

- Under prevailing weather conditions, constant monitoring of thrips and infection of purple

blotch in timely sown onion crop is advised. To manage, spray Diethane M -45 @ 3 g per litre of water with sticky material (Tipol 1.0 g/litre).

### **Jharkhand**

Amount of rainfall received over Jharkhand is 0.5 mm (-95% large deficit) during 01 January 2021 - 29 January 2021. The extended range weather forecast provided for next two weeks (29 January - 04 February and 05 - 11 February 2021) on rainfall over Jharkhand is above normal for week-1 and week-2.

- Under prevailing weather conditions, farmers may prepare pits and go for sowing of summer vegetable crops like sponge gourd, bottle gourd, pumpkin, water melon, musk melon etc.
- Farmers planning to go for summer rice, may go for sowing immediately after preparation of the nursery-bed.

### ***Disclaimer:***

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