



**National Agromet Advisory Service Bulletin**  
**Based on**  
**Extended Range Weather Forecast (ERFS)**

**Validity: (05 June to 18 June 2020)**

**Date of issue: 05 June 2020**

**Issued by**

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

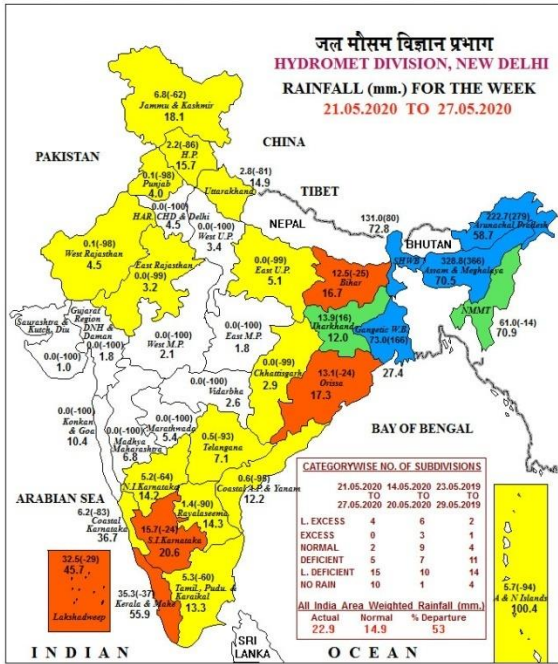
**&**

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

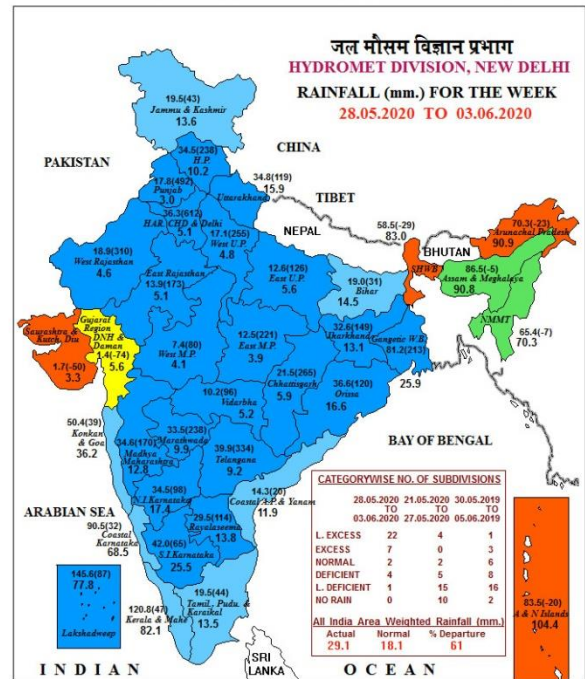
## Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

### Realized Rainfall (21<sup>st</sup> May to 3<sup>rd</sup> June, 2020)

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



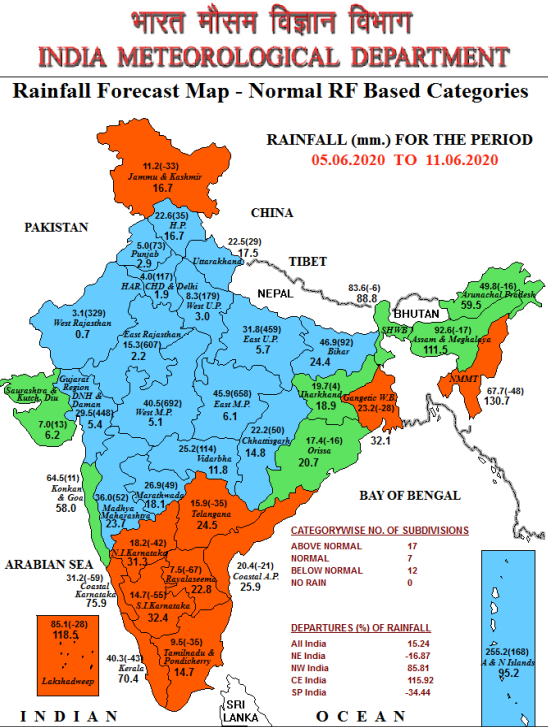
#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



- Normal or above normal rainfall occurred in both the weeks in Jharkhand, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura (NMMT).
- Normal or above normal rainfall occurred in either of the weeks in Jammu & Kashmir, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Lakshadweep.
- Below normal rainfall / no rain occurred over rest of the country during the period.

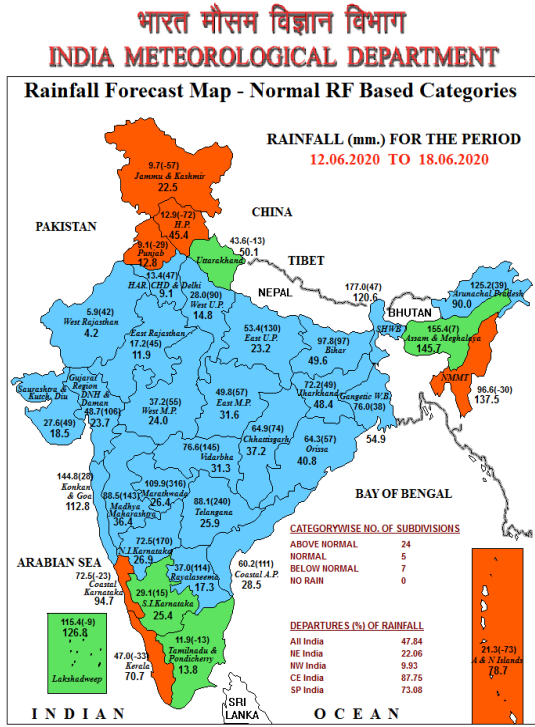
# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 03 June) (5<sup>th</sup> to 18<sup>th</sup> June, 2020)



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.



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.

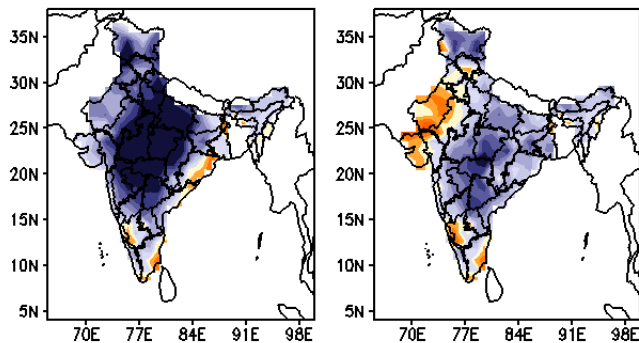
- **Week-1 (05.06.2020 to 11.06.2020):** Except south peninsula, extreme north India and parts of Northeast India, most of central India will have above normal rainfall during week 1.
- **Week-2 (12.06.2020 to 18.06.2020):** Associated with strengthening of Bay branch, monsoon rainfall over some parts of eastern India and also over south peninsula will increase during week 2.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC -03 June)  
(5<sup>th</sup> to 18<sup>th</sup> June, 2020)**

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

(Week1: 05Jun-11Jun)

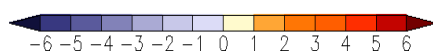
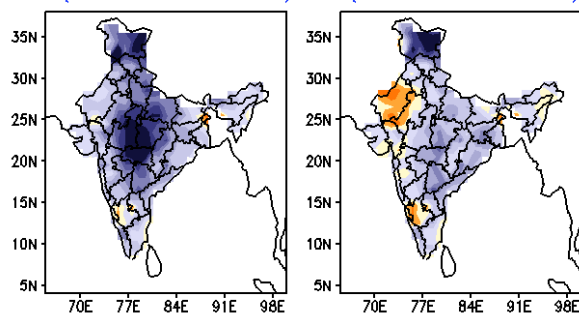
(Week2: 12Jun-18Jun)



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

(Week1: 05Jun-11Jun)

(Week2: 12Jun-18Jun)



**Maximum Temperature (Tmax)**

- **Week 1 (05.06.2020 to 11.06.2020):** Mostly below normal Tmax over entire India is expected in week 1 except some parts of eastern coastal belts of India.
- **Week 2 (12.06.2020 to 18.06.2020):** Tmax is expected to be above normal over northwest parts of India in week 2 and below normal in most parts of central and north-eastern parts of India.

**Minimum Temperature (Tmin)**

- **Week 1 (05.06.2020 to 11.06.2020) and Week 2 (12.06.2020 to 18.06.2020):** Tmin is expected to be mostly normal to below normal over most of India except some isolated pockets of India (northwest India in week 2).

## **Strategic Agricultural Planning based on rainfall during next two weeks till 18 June 2020**

### **Agromet Advisories**

#### **Kerala**

Amount of rainfall received over Kerala is 103.2 mm (108% large excess) during the period of 01 June 2020 - 04 June 2020. The extended range weather forecast for next two weeks (05 June - 11 June and 12 June - 18 June 2020) is below normal for week-1 and week-2.

- Due to continuous rain, there is a chance of bud rot disease in coconut palm. It is advised to tie perforated sachets (3 nos.) containing 5 g of Mancozeb at the top crown portion and leaf axil of coconut.
- It is advised to prepare fields for ginger and turmeric planting. To protect the ginger crop from foot rot disease, soak the suckers in 0.3% Mancozeb/ Pseudomonas solution for 30 minutes.

#### **Tamil Nadu**

Amount of rainfall received over Tamil Nadu is 4.2 mm (-50% deficit) during the period of 01 June 2020 - 04 June 2020. The extended range weather forecast for next two weeks (05 June - 11 June and 12 June - 18 June 2020) is below normal for week-1 and normal for week-2.

- Present prevailing weather condition is favorable for sucking pest in irrigated cotton. It is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- Due to rainy weather condition, farmers are advised for summer ploughing to conserve rain water.
- Animals may suffer from heat stress due to high temperature. It is advised to provide adequate drinking water, green fodder and spray water on gunny bags surrounding the cattle shed.

#### **Maharashtra**

Rainfall received over Madhya Maharashtra is 69.0 mm (522% large excess), over Marathwada is 40.0 mm (344% large excess), Vidharbha is 24.8 mm (377% large excess) and Konkan region 117.8 mm (284% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast for next two weeks (05 June - 11 June and 12 June - 18 June 2020) over Madhya Maharashtra, Marathwada, Vidharbha is above normal and over Konkan is normal for week-1 and above normal over Madhya Maharashtra, Marathwada, Vidharbha and Konkan for week-2.

##### *Madhya Maharashtra*

- For control of fruit fly in mango crop, farmers are advised to use Methyl eugenol coated 8-10 traps per acre.

##### *Konkan*

- Due to heavy rain and high wind condition, it is advised to make arrangement for drain out excess water from banana orchard and provide support to banana plant.

- Due to heavy rain and high wind condition, it is advised to complete the harvesting of mango and store the fruits at safe and protected place.

#### *Vidharbha*

- Under prevailing rainy weather conditions, it is advised to provide mechanical support to young fruit plants and staking in vegetables to prevent lodging.
- Farmers are advised to start the land preparation for nursery sowing of *kharif* rice in Eastern Vidharbha Zone.

#### *Marathwada*

- Under prevailing weather condition, sowing of pigeon pea crop is advised. Recommended improved varieties viz. BDN-2, BDN-708 (Amol), BDN-711, BDN-716, BSMR-853, BSMR-736, BDN-716.
- Sowing of *kharif* groundnut is advised. Recommended improved varieties viz. SB-11, LGN-2, TAG-24, TG-26, TLG-45, LGN-1, LGN-123 for cultivation of *kharif* groundnut.

#### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 13.4 mm (135% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Himachal Pradesh is above normal for week-1 and below normal week-2.

- Sowing of seeds of babul, subabul, khair, amla and prosop in polythene bags for raising nursery is advised.
- Under prevailing weather condition, it is advised to resume picking in tea at 8-9 days interval to maintain the quality and productivity.
- Under prevailing weather condition, sowing of fodder maize along with cowpeas and soybean in irrigated areas is advised.

#### **Hisar**

Amount of rainfall received over Hisar is 13.6 mm (616% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Hisar is above normal for week-1 and week-2.

- For the management of desert locust, farmers are advised to spray Bendiocarb 80% WP @100 g/ha or Diflubenzuron 2.8% EC and 1.2% ULV @ 12.5 g/ha or Fipronil 5% SC and 2.9% EC @ 6.2 g/ha or Malathion 50% EC and 25% WP and 96% ULV @ 926 g/ha.
- Under prevailing weather condition, farmers are advised to sow sorghum, maize and lobia as a fodder crop.
- Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep animals healthy.



## **Karnataka**

Rainfall received during 01 June 2020 - 04 June 2020 over South Interior Karnataka is 22.4 mm (42% excess) and North Interior Karnataka is 34.9 mm (193% large excess). The extended range weather forecast for next two weeks (05 June - 11 June and 12 June - 18 June 2020) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and normal over South Interior Karnataka and above normal over North Interior Karnataka week-2.

### *South Interior Karnataka*

- Farmers may go for sowing of long duration mono crop red gram with varieties viz., TTB-7, BRG-1, 2, 4 & 5, castor with varieties DCS-9 (Jyothi), DCH-177&32, maize with varieties Ganga-11, Deccan -103, Vijaya composite, Composite NAC-6004, 6002, hybrid-Nityashree ( NAH-2049).
- Farmers are advised for summer ploughing, apply tank silt and FYM in soil to increase fertility, moisture holding capacity and improvement in soil micro flora.

### *North Interior Karnataka*

- Under prevailing rainy weather condition, sowing of the *kharif* crops like greengram, red gram, bajra, navane and groundnut (bunch type), castor, onion, chilli are recommended.
- Under prevailing weather condition, farmers are advised to skip or postpone insecticide spray in horticultural crops like watermelon, tomato, brinjal, pomegranate and lime.

## **Assam**

Amount of rainfall received over Assam is 83.7 mm (66% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Assam is normal for week-1 and week-2.

- Due to heavy rainfall condition, farmers are advised to provide proper surface drainage facility in maize to drain out the excess amount of water.
- Due to cloudy and rainy weather condition, there is a chance of infestation of early shoot borer in sugarcane crop. To control, proper earthing up at the base followed by burying or burning of the infested canes is advised. If infestation is above ETL, spray of Phosphamidon @ 60-70ml per 120 litre of water/ bigha land in fair weather condition is advised.

## **Jharkhand**

Amount of rainfall received over Jharkhand is 18.6 mm (96% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Jharkhand is normal for week-1 and above normal for week-2.

- Under optimum soil moisture condition, farmers are advised to sow green manure crops like sun hemp, dhaincha, sisbania to enhance the soil fertility.

- Timely sown green gram crops are at maturity stage. So, it is advised to pluck the mature pod in the morning and keep them under shade.

### **Uttar Pradesh**

Rainfall received during 01 June 2020 - 04 June 2020 over East Uttar Pradesh is 4.1 mm (-3% deficit) and West Uttar Pradesh is 4.6 mm (28% excess). The extended range weather forecast for next two weeks (05 June - 11 June and 12 June - 18 June 2020) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and week-2.

- Due to rainy weather condition, farmers are advised to raise the nursery for medium duration rice. Recommended varieties viz., Narendra dhan-359, Malviya dhan-36, Narendra dhan-2064, Narendra dhan-2026 or Hybrid varieties viz., Arize -6444, 6201, PHB-71, KRH-2, PRH-10 and JKRH-401.
- Sowing of early maturing pigeon pea varieties (Paras, UPAS-120, Type-21 and Pusa-992) is advised.

### **Odisha**

Amount of rainfall received over Odisha is 20.1 mm (61% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Odisha is normal for week-1 and above normal for week-2.

- Under prevailing rainy weather condition, farmers are advised to sow green manure crops like dhaincha and sunhemp.
- Under rainy weather condition, farmers are advised to go for sowing of maize with high yielding varieties like Navjot, Shakti, Decan-107, Decan-109.
- Farmers are advised for summer ploughing to reduce the weed infestation, destroy eggs/ larvae of hibernated insects in soil and to improve soil profile recharge.

### **West Bengal**

Amount of rainfall received over West Bengal is 48.7 mm (-2% deficit) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over West Bengal is above normal for week-1 and week-2.

- In the prevailing weather situation, there is a chance of attack of fruit borer in mango. It is advised to spray Dichlorovos @ 1.5 - 2.0 ml per litre of water.
- Under prevailing weather condition, there is a chance of red pumpkin beetle in pumpkin, ridge-gourd, pointed gourd and cucumber. To control, it is advised to apply Dimecron or Rogor @ 1ml per litre of water.

### **Bihar**

Amount of rainfall received over Bihar is 5.0 mm (-45% deficit) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18



June 2020) on rainfall over Bihar is above normal for week-1 and week-2.

- Because of congenial weather condition, farmers are advised to start the sowing of paddy in nurseries.
- Farmers are advised to harvest matured pods of early sown black gram/green gram. Regular monitoring should be done in late sown green gram/black gram against infestation of pod borer.
- Sowing of *kharif* maize is advised. Recommended varieties viz., Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki.

### **Punjab**

Amount of rainfall received over Punjab is 7.9 mm (391% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Punjab is above normal for week-1 and below normal for week-2.

- To control fruit and shoot borer in brinjal crop, it is advised to spray 100 ml Sumicidin 20 EC or 200 ml Ripcord 10 EC or 160 ml Decis 2.8 EC in 100-125 litre of water per acre.
- For management of physiological fruit drop in mango, spray 2,4-D sodium salt of horticulture grade @ 10 g in 500 litre of water.
- To check zinc deficiency in citrus, it is advised to spray the affected trees with Zinc sulphate @ 4.7 g/litre of water solution, without addition of lime to spring flush.

### **Gujarat**

Amount of rainfall received over Gujarat is 5.3 mm (-12% deficit) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Gujarat is above normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to sow pulses. Recommended varieties for green gram viz., GM-4, K-85, for black gram viz., Gujarat udud-1, for cowpea viz., Gujarat cowpea-1, 2, 4, Pusa falguni and for pigeon pea viz., BDN-2, GT-100, GTH-1.
- Farmers are advised to keep the animals in the shade during noon hours and provide cool drinking water frequently at regular interval.

### **Madhya Pradesh**

Amount of rainfall received over Madhya Pradesh is 27.6 mm (738% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.

- Due to rainfall condition, drain out excess water from moong/urad bean crop field and rogue out mosaic plant from the field.
- Monitoring of insect pest and pest management practices against pod borers in okra, tomato, egg plant and chilli is advised.

## **Jammu**

Amount of rainfall received over Jammu is 8.8 mm (12% excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- To control leaf curl in tomato, it is advised to remove virus infected plants and spray Imidacloprid @ 0.5ml/litre of water during evening in clear days.
- Due to rise in temperature, farmers are advised to protect young fruit plants from heat by providing thatches and cover.
- Ploughing of fallow land for soil solarization against insect pests and weed infestation is advised.

## **Rajasthan**

Amount of rainfall received over Rajasthan is 6.5 mm (81% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Rajasthan is above normal for week-1 and week-2.

- For the management of locust attack, farmers are advised to make noise and sound to avoid settle down of locust in the fields. Spray Malathion 50% EC @1850 ml/ha and give information to the agricultural authorities about the outbreak of locust in the region.
- To control shoot and fruit borer in tomato crop, spraying of Spinosad 48 EC @ 1 ml /4 litre of water is advised.
- Farmers are advised to do deep ploughing and make bunds around the field to conserve rain water.

## **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 18.8 mm (102% large excess) during 01 June 2020 - 04 June 2020. The extended range weather forecast provided for next two weeks (05 June - 11 June and 12 June - 18 June 2020) on rainfall over Andhra Pradesh is below normal for week-1 and above normal for week-2.

- There is chance of local grass hopper attack. If noticed, it is advised to spray Neem based pesticides on standing horticultural crops.
- Because of high rainfall condition, farmers are advised to sow Sesame in North coastal AP, Godavari and Krishna zones with high yielding varieties viz., Hima, Sarada (YLM 66) for sowing.

***Disclaimer:** The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*

