

**Advisory for DD Kisan dated 12.04.19**  
**(Agromet Advisories mentioned in the inputs are prepared by different Agromet Field Units in the country)**

**Significant Weather Features**

- The current western disturbance is likely to cause scattered to fairly widespread rain/thundershowers over Jammu & Kashmir, Himachal Pradesh and Uttarakhand during next 48 hours.
- A fresh Western Disturbance is likely to affect Western Himalayan Region and Northwest India from 15th April and cause enhanced rainfall activity with probable thundersqualls and hailstorms over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan and Uttar Pradesh on 16th April
- Heat wave conditions are likely to continue at isolated pockets over Madhya Pradesh and Vidarbha during next 24 hours.

**Realised Weather**

**(From 0830 hours IST of yesterday to 0830 hours IST of today):**

- Rain/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, East Madhya Pradesh, Gangetic West Bengal, Assam & Meghalaya, Odisha, Vidharbha, Marathwada, North & South Interior Karnataka, Rayalaseema and Kerala.
- Thunderstorms observed at isolated places over Jammu & Kashmir, West Uttar Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, Odisha, Jharkhand, East Madhya Pradesh, Interior Karnataka, Rayalaseema and Kerala from 1730 hours IST of yesterday to 0830 hours IST of today.
- Yesterday, Heat Wave conditions observed in isolated pockets over East Rajasthan, Madhya Pradesh and Vidarbha.
- Maximum temperature departures as on 11-04-2019: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Jammu & Kashmir; appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh, Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada and Kerala and at isolated places over Uttarakhand, Uttar Pradesh, Gujarat, Tamilnadu & Puducherry and Andaman & Nicobar Islands.
- Yesterday, the highest maximum temperature of 45.2°C recorded at Chandrapur (Vidarbha) over the country.

**Weather Forecast for next 5 days upto 0830 hours IST 16th April 2019**

- Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.

- Day maximum temperatures are likely to rise by 2-3°C over East India during next 3 days. No significant change in day maximum temperatures likely over remaining parts of India during next 3 days. They are very likely to remain above normal by 2-3°C over parts of Telangana, Rayalaseema, interior Tamilnadu, Kerala, interior Maharashtra and northern parts of Gujarat state during next 3 days.

**Table- 1**

5 Day Rainfall Forecast (MID-DAY)					
	12-Apr Today	13Apr Sat	14Apr Sun	15Apr Mon	16Apr Tue
1. Andaman & Nicobar Islands	DRY	DRY	DRY	DRY	DRY
2. Arunachal Pradesh	ISOL	SCT	FWS	FWS	SCT
3. Assam & Meghalaya	ISOL	SCT	FWS	FWS	SCT
4. N. M. M. & T.	ISOL	ISOL	SCT	SCT	SCT
5. S.H. West Bengal & Sikkim	ISOL	SCT	SCT	SCT	ISOL
6. Gangetic West Bengal	ISOL	ISOL	ISOL	DRY	ISOL
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
9. Bihar	ISOL	ISOL	ISOL	ISOL	SCT
10. East Uttar Pradesh	ISOL	DRY	DRY	DRY	ISOL
11. West Uttar Pradesh	ISOL	DRY	DRY	ISOL	SCT
12. Uttarakhand	SCT	SCT	ISOL	ISOL	FWS
13. Haryana, Chd & Delhi	ISOL	DRY	DRY	ISOL	SCT
14. Punjab	ISOL	ISOL	DRY	SCT	FWS
15. Himachal Pradesh	SCT	ISOL	DRY	ISOL	FWS
16. Jammu & Kashmir	FWS	FWS	ISOL	SCT	WS
17. West Rajsthan	ISOL	DRY	ISOL	ISOL	SCT
18. East Rajasthan	ISOL	DRY	DRY	ISOL	SCT
19. West Madhya Pradesh	ISOL	DRY	DRY	ISOL	SCT
20. East Madhya Pradesh	ISOL	DRY	DRY	ISOL	ISOL
21. Gujarat Region	DRY	DRY	ISOL	SCT	ISOL
22. Saurashtra & Kutch	DRY	DRY	ISOL	SCT	ISOL
23. Konkan & Goa	DRY	DRY	ISOL	ISOL	ISOL
24. Madhya Maharashtra	ISOL	ISOL	ISOL	ISOL	ISOL
25. Marathawada	ISOL	ISOL	ISOL	SCT	ISOL
26. Vidharbha	ISOL	ISOL	ISOL	SCT	SCT
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal Andhra Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	ISOL	DRY	DRY	ISOL	ISOL
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	ISOL	DRY	ISOL	ISOL	ISOL
33. North Interior Karnataka	ISOL	ISOL	ISOL	SCT	ISOL
34. South Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
35. Kerala	ISOL	ISOL	ISOL	ISOL	ISOL
36. Lakshadweep	DRY	DRY	DRY	DRY	DRY

  

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

## Weather Warning

- **12 April (Day 1): Heat Wave conditions in isolated pockets** very likely over Madhya Pradesh and Vidarbha.
- **Thunderstorm accompanied with squall and lightning at isolated places** very likely over Gangetic West Bengal and Jharkhand.
- **Thunderstorm/Duststorm accompanied with gusty winds and lightning at isolated places** very likely over West Uttar Pradesh and Rajasthan.
- **Thunderstorm accompanied with gusty winds and lightning at isolated places** very likely over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh, Interior Karnataka and Kerala.
- **13 April (Day 2): Thunderstorm accompanied with squall and lightning at isolated places** very likely over Assam & Meghalaya.
- **Thunderstorm accompanied with gusty winds and lightning at isolated places** very likely over Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Nagaland, Manipur, Mizoram and Tripura, Madhya Maharashtra, Marathwada, Interior Karnataka and Kerala.
- **14 April (Day 3): Thunderstorm accompanied with squall and lightning at isolated places** very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **Thunderstorm accompanied with gusty winds and lightning at isolated places** very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Coastal Karnataka and Tamilnadu & Puducherry.
- **Heavy rainfall at isolated places very likely over Assam & Meghalaya.**
- **Squally winds, speed reaching 40-50 kmph,** very likely over Northwest Arabian Sea. Fishermen are advised not to venture into this region
- **15 April (Day 4): Thunderstorm accompanied with hail storm, squall and lightning at isolated places** likely over North Interior Karnataka.
- **Thunderstorm accompanied with squall and lightning at isolated places** likely over Assam & Meghalaya and Nagaland, Manipur, Meghalaya & Tripura.
- **Thunderstorm accompanied with hail, gusty wind and lightning at isolated places** likely over Marathwada and Vidarbha.
- **Thunderstorm/Duststorm accompanied with gusty winds and lightning at isolated places** likely over West Uttar Pradesh and Rajasthan.
- **Thunderstorm accompanied with gusty winds and lightning at isolated places** likely over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Madhya Maharashtra, Telangana and South Interior Karnataka.
- **16 April (Day 5): ♦ Thunderstorm accompanied with squall, hail and lightning at isolated places** likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Bihar.
- **Thunderstorm accompanied with hail, gusty winds and lightning at isolated places** likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Vidarbha and Chhattisgarh.
- **Thunderstorm accompanied with gusty winds and lightning at isolated places** likely over Madhya Pradesh, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura, Telangana, Rayalaseema, Coastal Karnataka, Tamilnadu and Kerala.
- **Heavy rainfall at isolated places** likely over Jammu & Kashmir.

## Salient Advisories

### Thunderstorm/ Squall/ Dust storm and advisory

#### Warning

- **Thunderstorm accompanied with squall and lightning at isolated places** very likely over Gangetic West Bengal and Jharkhand on 12<sup>th</sup>; Assam & Meghalaya on 13<sup>th</sup> to 15<sup>th</sup> and Nagaland, Manipur, Mizoram & Tripura on 14<sup>th</sup> & 15<sup>th</sup>.
- **Thunderstorm/ Duststorm accompanied with gusty winds and lightning at isolated places** very likely over West Uttar Pradesh and Rajasthan on 12<sup>th</sup> and 15<sup>th</sup>.
- **Thunderstorm accompanied with gusty winds and lightning at isolated places** very likely Uttarakhand-12<sup>th</sup>; Madhya Pradesh on 12<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup>; Vidarbha on 12<sup>th</sup> and 13<sup>th</sup>; Chhattisgarh on 12<sup>th</sup>, 13<sup>th</sup> and 15<sup>th</sup>; Odisha 12<sup>th</sup> to 16<sup>th</sup>; Nagaland, Manipur, Mizoram & Tripura on 12<sup>th</sup> and 13<sup>th</sup>; Marathwada from 12<sup>th</sup> to 14<sup>th</sup>; Coastal Andhra Pradesh on 12<sup>th</sup>; Interior Karnataka on 12<sup>th</sup> and 13<sup>th</sup>; Kerala on 12<sup>th</sup>, 13<sup>th</sup> and 16<sup>th</sup>; Jharkhand on 13<sup>th</sup> and 16<sup>th</sup>; West Bengal & Sikkim from 13<sup>th</sup> to 15<sup>th</sup>; Madhya Maharashtra from 13<sup>th</sup> to 15<sup>th</sup>; Bihar on 14<sup>th</sup> and 15<sup>th</sup>; Sub-Himalayan West Bengal & Sikkim on 14<sup>th</sup> & 15<sup>th</sup>; Coastal Karnataka and Tamilnadu on 14<sup>th</sup> and 16<sup>th</sup>; Arunachal Pradesh and Puducherry on 14<sup>th</sup>; Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi on 15<sup>th</sup>; Telangana on 15<sup>th</sup> and 16<sup>th</sup>; South Interior Karnataka on 15<sup>th</sup> and Assam & Meghalaya, Rayalaseema on 16<sup>th</sup>.
- **Thunderstorm accompanied with hail storm, squall and lightning at isolated places** likely over North Interior Karnataka on 15<sup>th</sup>
- **Thunderstorm accompanied with hail, gusty wind and lightning at isolated places** likely over Marathwada on 15<sup>th</sup> and Vidarbha on 15<sup>th</sup> and 16<sup>th</sup> Thunderstorm accompanied with hail, gusty winds and lightning at isolated places likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Chhattisgarh on 16<sup>th</sup>.
- **Thunderstorm accompanied with squall, hail and lightning at isolated places** likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Bihar on 16<sup>th</sup>.

#### Advisory

- In the above mentioned regions, provide mechanical support to young fruit plants, banana and staking in vegetables to prevent the crops from lodging due to strong winds. Undertake propping in sugarcane. Postpone application of plant protection measures and fertilizers to the standing crops during gusty wind. Use hail net for orchard crops to protect from mechanical damage

### Heat wave

#### Warning

- Heat Wave conditions in isolated pockets very likely over Madhya Pradesh and Vidarbha during next 24 hours
- **Advisory**

- In above regions, apply light and frequent irrigation to the standing crops to cope up with the excess evaporative demand due to high temperature; mulching with straw to conserve soil moisture.

## Heavy rainfall

### Warning

- Heavy rainfall at isolated places very likely over Assam & Meghalaya on 14<sup>th</sup> and Jammu and Kashmir on 16<sup>th</sup>.

### Advisory

- In above regions, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Keep harvested produce at safer places.

## State-wise Advisories

### Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland and Tripura

- In Hill zone of Assam, undertake mulching the ginger with green leaves to enhance germination of seed rhizomes and prevent the soil from washing off due to heavy rains.
- In Assam continue sowing of summer green gram, black gram, fodder crops and transplanting of ahu rice. Make provision for small drains at required interval in crop field to drain out the excess water for the already sown crops.
- In Arunachal Pradesh, undertake transplanting of summer vegetables to main field and undertake harvesting of potato only during clear/dry days. Store already harvested crops in a cool, well ventilated place and do not wash before storing as dampness promotes early spoilage.
- In Manipur, undertake nursery plots for raising kharif rice and land preparation for sowing soybean/ groundnut.
- In Mizoram, undertake harvesting of rabi maize.
- In Meghalaya, continue land preparation for sowing of maize and sowing of Cucurbits (Cucumber/Pumpkin /Bottle Gourd/ Ash Gourd/Squash).
- In Nagaland, continue sowing of green gram. To prevent the development of leaf folder and blast in Jhum rice remove grass weeds from in and around the rice field.
- In Tripura, give a foliar spray of Boron to avoid flower dropping in green gram and black gram.

### Jammu & Kashmir, Himachal Pradesh

- In Jammu Division of Jammu & Kashmir, continue harvesting of mustard crop in clear weather. Monitor chick pea (gram) for the attack of pod borer. As a precautionary measure spray neem oil (bio pesticide) @ 2 ml per liter of water in gram.
- In Mid Hills Sub-Humid Zone of Himachal Pradesh, make a layer of grass mulching of six inch thickness in the basins of temperate fruits. This mulch will help in soil moisture conservation and moderating of soil temperature.

### Punjab

- In Western Plain Zone of Punjab, continue land preparation for sowing of irrigated cotton. Avoid growing bhindi, moong, arhar, castor and dhaincha in and around the cotton fields to avoid simultaneous build up and spread of cotton pests and diseases.
- In Central Plain Zone of Punjab undertake harvesting of wheat.
- In Western Zone of Punjab undertake harvesting of rapeseed and mustard.

### Rajasthan and Gujarat

- In the state of Gujarat due to prevailing high temperatures apply light and frequent irrigation to standing crops like Pearl millet, Sesame, Cluster bean Green gram/Cow pea and Vegetables to conserve soil moisture
- In Rajasthan complete harvesting of wheat, chickpea/gram.
- In Southern Humid Plain zone of Rajasthan, continue land preparation for sowing of *zaid* mung and sugarcane and harvest the wheat.
- In Western Rajasthan undertake sowing of fodder pearl millet, sorghum, cowpea with assured irrigation.
- In Middle Gujarat Zone of Gujarat continue sowing of green gram and cowpea.

### Maharashtra

- Due to increasing temperatures, provide shade net to newly planted orchard saplings like mango grafts/ coconut seedlings for protection from scorching sun.
- In Konkan region undertake harvesting of early sown varieties of rice. Remove water from the fields at least 8-10 days before harvesting. Undertake harvesting of early sown groundnut, if required apply light irrigation before harvesting. Dry the harvested pods in sunshine for 3 to 4 days
- In Madhya Maharashtra continue harvesting of onion. Keep the harvested produce in safer place. In groundnut, spray 00:52:34 @ 70 g and multi- micronutrient @ 50 g per 15 liter of water to enhance pod formation followed by irrigation.
- In Marathwada undertake harvesting of turmeric, vegetables and fruit crops as early as possible. Keep the harvested produce in safer place.
- In Vidarbha, Apply irrigation to green gram, groundnut, vegetables and orchards. To control blast in rice, spray Hinosan @ 6 ml or Copper Oxychloride @ 25 g along with Streptocycline @ 0.5 g in 10 liters of water. To control tikka disease in groundnut, spray Deltamethrin 2.8% @ 500 ml/ha in 500 liters of water

### Bihar ,Jharkhand, Odisha and West Bengal

- In South Eastern Plateau Zone of Jharkhand, undertake harvesting of timely sown wheat, chick pea and Pigeonpea and undertake sowing of Summer moog
- In Bihar, complete sowing of green gram (mung bean) & black gram (urd). Continue harvesting of wheat crop.
- In Western Plateau Zone of Jharkhand, due to recent rain coupled with high wind affected wheat crops adversely resulted into lodging of plants in some places. If such crops are at maturity stage, harvest them immediately. If such crops are at pre - mature stage, then to erect them tag 8-10 plants in one bundle. After few days, these plants will recover to attain normal position.

- In Odisha, rising temperature may favour the stem borer infestation in summer paddy. Regularly monitor of the crop and place 4 Pheromon Traps/acre, collect the adults and destroy them by burning them under soil or by burying. Undertake harvesting of Greengram and Blackgram.
- In Hill Zone of West Bengal undertake harvesting of potato and land preparation for sowing of Okra.
- In West Bengal, to control insect pests in Boro rice spray neem oil 10000 ppm @ 3ml/liter or @ 0.5ml/liter at evening hours.

### Andhra Pradesh and Telangana

- In North Coastal Andhra Pradesh, weather is congenial for incidence of False smut and Yellow Stem borer on rice. Erect pheromone traps @ 8-9 per acre to monitor the pest. Spray propiconazole @ 1 ml/l or carbendazim @ 1 g per litre of water for control of False smut and Chlorpyrifos @ 2.5 ml/ lit of water for control of Yellow Stem borer.
- In South Coastal Andhra Pradesh, continue sowing of summer pulses.
- In Kurnool district of Scarce Rainfall Zone of Rayalaseema, undertake harvesting of rice.
- In Rayalaseema continue harvesting of rabi groundnut and continue sowing of summer groundnut with assured irrigation.
- In Northern Telangana, prevailing weather conditions are congenial for incidence of Tikka leaf spot in groundnut spray Chlorothalonil @ 2 g/l or Tebuconazole @ 1 ml per liter of water.
- In Southern Telangana prevailing weather conditions are congenial for incidence of Cut worm in rice, spray Chlorpyrifos @ 2.5 or Monocrotophos @ 1.6ml per liter of water.

### Uttar Pradesh and Uttarakhand

- In East Uttar Pradesh, complete harvesting of wheat, mustard, pea, gram and lentil and barley.
- In Central Plain Zone of Uttar Pradesh complete sowing of summer *urad* and *muung* and fodder crops like jowar and bajra.
- Mid to high altitude area of Uttarakhand, continue sowing of Barnyard millet, pigeon pea and Potato.
- In Sub Humid Sub tropic zone of Uttarakhand undertake harvesting of wheat and sowing of summer maize and planting of sugarcane.

### Madhya Pradesh and Chattisgarh

- In East Madhya Pradesh, undertake harvesting of matured gram and wheat, undertake land preparation for sowing of moong and summer vegetables and sowing of watermelon, melon, cucumber etc.
- In West Madhya Pradesh, undertake sowing of summer moong in fallow fields with assured irrigation.
- In Chhattisgarh Plain zone, due to prevailing high temperatures apply irrigation to vegetables, summer maize, groundnut and sunflower. Farmers having drip irrigation system for vegetables and plantation crops should regulate the water discharge rate accordingly to maintain proper soil moisture around root zone. Maintain optimum water level in summer rice.
- In Bastar Plateau Zone of Chhattisgarh, complete harvesting of wheat. After the harvest of wheat crop, deep ploughing should be done for sowing of green manure crops in the month of May.