

### Advisory for DD Kisan dated 11.06.19

(Agromet Advisories mentioned in the inputs are prepared by different Agromet Field Units in the country)

#### Significant Weather Features

- **The Cyclonic Storm 'VAYU'** (pronounced as VAA'YU) over east-central Arabian Sea moved northwards with a speed of about 15 kmph in last six hours and lay centred at 0830 hours IST of today, the 11<sup>th</sup> June, 2019 near Lat. 15.0°N and Long. 70.6°E over East-central Arabian Sea, about 350 km west-southwest of Goa, 510 km south-southwest of Mumbai (Maharashtra) and 650 km nearly south of Veraval (Gujarat). It is very likely to intensify further into a Severe Cyclonic Storm during next 12 hours. It is very likely to move nearly northwards and cross Gujarat coast between Porbandar and Mahuva around Veraval & Diu region as a Severe Cyclonic Storm with wind speed 110-120 kmph gusting to 135 kmph during early morning of 13th June, 2019.
- Fishermen are advised not to venture into southeast Arabian Sea, Lakshadweep area along & off Kerala and Karnataka coasts on 11th June; east-central Arabian Sea along & off Maharashtra coast on 11<sup>th</sup> & 12<sup>th</sup> June and over northeast Arabian Sea and along & off Gujarat coast on 12<sup>th</sup> & 13<sup>th</sup> June. Those who are out in the deep sea areas are advised to return to the coast.
- Heat wave to severe heat wave conditions very likely to prevail over Rajasthan, Madhya Pradesh, Vidarbha, southern parts of Haryana and Uttar Pradesh during next 3 days. Intensity and spatial extent of heating is very likely to reduce substantially thereafter.
- **Northern Limit of Monsoon (NLM) continues to pass through Lat. 12°N/Long. 60°E, Lat. 12°N/Long. 70°E, Kannur, Madurai, Lat. 12°N/Long. 83°E, Lat. 14°N/Long. 86°E, Lat. 17°N/Long. 89°E, Lat. 20°N/Long. 91°E, Aizwal, Lat. 24°N/Long. 93°E and Lat. 25°N/Long. 95°E.**

#### Realised Weather

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

- **Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at most places over Andaman & Nicobar Islands, Kerala, Coastal Karnataka, Jammu & Kashmir, Sub-Himalayan West Bengal, & Sikkim, Assam & Meghalaya and Lakshadweep; at many places over Konkan & Goa and Madhya Maharashtra; at a few places over North Interior Karnataka, Nagaland, Manipur, Mizoram & Tripura, Odisha and Tamilnadu,

Puducherry & Karaikal and at isolated places over South Interior Karnataka, Bihar, Rajasthan, Vidarbha, Marathwada and West Madhya Pradesh.

- Heavy to very heavy rainfall observed at isolated places over Konkan & Goa and heavy rainfall observed at isolated places over Kerala, Tamilnadu, Puducherry & Karaikal, Sub-Himalayan West Bengal & Sikkim and Bihar
- **Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today):** at a few places over Jammu & Kashmir and at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Odisha, East Rajasthan, Vidarbha, Madhya Maharashtra, Marathwada, Coastal & North Interior Karnataka, Konkan & Goa, Kerala & Mahe and Andaman & Nicobar Islands.
- Yesterday, severe Heat Wave conditions were observed in many parts over West Rajasthan and at isolated pockets over East Rajasthan. Heat wave in many parts with severe heat wave in isolated pockets over Madhya Pradesh and Haryana, Chandigarh & Delhi. Heat Wave Conditions in some parts with severe heat wave in isolated pockets over East Uttar Pradesh and in isolated pockets over Bihar, Saurashtra & Kutch, Madhya Maharashtra and Vidarbha.
- **Maximum temperature departures as on 10-06-2019:** Maximum temperatures were markedly above normal (5.1°C or more) at most places over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh and Vidarbha; at many places over West Rajasthan Himachal Pradesh, Uttarakhand, Jharkhand and Chhattisgarh and at isolated places over Jammu & Kashmir, Saurashtra & Kutch and Telangana.
- Yesterday, the **highest maximum** temperature of **50.3°C** was recorded at **Churu** (West Rajasthan).

### **Weather Forecast for next 5 days upto 0830 hours IST 16<sup>th</sup> June 2019**

- Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- Maximum temperatures are likely to remain above normal by 2-3°C over some parts of east India during next 2-3 days. No significant change in maximum temperatures likely over rest of the country during next 2 days and they are likely to fall gradually by 2-3°C thereafter.

**Table-1**  
**5 Day Rainfall Forecast (MID-DAY)**  
**11-June-2019**

Met-Sub-Division	11-Jun Today	12Jun Wed	13Jun Thu	14Jun Fri	15Jun Sat
1. Andaman & Nicobar Islands	WS	WS	WS	FWS	FWS
2. Arunachal Pradesh	SCT	SCT	SCT	FWS	FWS
3. Assam & Meghalaya	FWS	SCT	FWS	WS	WS
4. N. M. M. & T.	FWS	FWS	FWS	WS	WS
5. S.H. West Bengal & Sikkim	FWS	FWS	FWS	FWS	FWS
6. Gangetic West Bengal	ISOL	ISOL	ISOL	ISOL	ISOL
7. Odisha	ISOL	ISOL	SCT	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
9. Bihar	ISOL	ISOL	ISOL	ISOL	ISOL
10. East Uttar Pradesh	ISOL	SCT	ISOL	DRY	ISOL
11. West Uttar Pradesh	ISOL	SCT	ISOL	DRY	ISOL
12. Uttarakhand	SCT	SCT	ISOL	DRY	DRY
13. Haryana, Chd & Delhi	SCT	SCT	ISOL	ISOL	ISOL
14. Punjab	SCT	SCT	ISOL	DRY	ISOL
15. Himachal Pradesh	FWS	FWS	SCT	DRY	ISOL
16. Jammu & Kashmir	WS	WS	SCT	ISOL	ISOL
17. West Rajasthan	ISOL	SCT	SCT	ISOL	ISOL
18. East Rajasthan	ISOL	FWS	SCT	ISOL	ISOL
19. West Madhya Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
20. East Madhya Pradesh	DRY	ISOL	ISOL	ISOL	ISOL
21. Gujarat Region	ISOL	SCT	SCT	ISOL	ISOL
22. Saurashtra & Kutch	ISOL	FWS	WS	FWS	ISOL
23. Konkan & Goa	FWS	WS	FWS	FWS	FWS
24. Madhya Maharashtra	SCT	SCT	ISOL	ISOL	ISOL
25. Marathwada	ISOL	ISOL	ISOL	ISOL	ISOL
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	SCT
27. Chhattisgarh	ISOL	ISOL	ISOL	SCT	SCT
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	SCT	SCT
29. Telangana	ISOL	ISOL	ISOL	ISOL	SCT
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. T.N., Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	SCT	ISOL	SCT	ISOL	ISOL
34. South Interior Karnataka	SCT	SCT	SCT	ISOL	SCT
35. Kerala & Mahe	WS	WS	WS	WS	WS
36. Lakshadweep	WS	WS	WS	FWS	FWS

**% Station Reporting Rainfall**

% 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

### Thunderstorm/Dust storm/Gail winds accompanied with lightning gusty winds, hail

11June (Day 1)	<p><b>Thundersquall &amp; lighting accompanied with hail and gusty winds (50-60 kmph)</b> at isolated places very likely over Uttarakhand; Thunderstorm accompanied with lighting, hail &amp; gusty winds (40-50 kmph) at isolated places over Himachal Pradesh.</p> <p><b>Thunderstorm accompanied with lighting and gusty winds (40-50 kmph)</b> at isolated places very likely over Jammu &amp; Kashmir; gusty winds (30-40 Kmph) at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Madhya Maharashtra, Konkan &amp; Goa, Marathawada, Coastal Andhra Pradesh, Telangana and North Interior Karnataka.</p> <p>Thunderstorm accompanied with squall, <b>dust storm &amp; gusty winds (50-60 Kmph)</b> at isolated places over West Uttar Pradesh; <b>gusty winds (40- 50 Kmph)</b> at isolated places over Punjab, Haryana, Chandigarh &amp; Delhi, East Uttar Pradesh and Rajasthan.</p> <p><b>Thunderstorm accompanied with lightning</b> at isolated places very likely over Odisha and Assam &amp; Meghalaya.</p> <p><b>Gale winds speed reaching 70-80 kmph gusting to 90 kmph</b> very likely to prevail over eastcentral Arabian Sea; <b>50-60 kmph gusting to 70 kmph</b> along &amp; off North Maharashtra Coast . It is very likely to be 40-50 kmph gusting to 60 kmph over Lakshadweep area, Kerala, Karnataka and south Maharashtra coasts. Sea condition is very likely to be high to very high over East central Arabian Sea and very likely to be rough over Lakshadweep area along &amp; off Karnataka and south Maharashtra coast. Fishermen are advised not to venture into these areas.</p>
12June (Day 2)	<p><b>Thundersquall &amp; lighting accompanied with hail and gusty winds (50-60 kmph)</b> at isolated places very likely over Uttarakhand;</p> <p><b>Thunderstorm accompanied with lighting, hail &amp; gusty winds (40-50 kmph)</b> at isolated places over Himachal Pradesh.</p> <p><b>Thunderstorm accompanied with lighting and gusty winds (40-50 kmph)</b> at isolated places very likely over Jammu &amp; Kashmir, Gujarat region; <b>gusty winds (30-40 Kmph)</b> at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Madhya Maharashtra and North Interior Karnataka.</p> <p><b>Thunderstorm accompanied with squall, dust storm &amp; gusty winds (50-60 Kmph)</b> at isolated places over West Uttar Pradesh; gusty winds (40-50 Kmph) at isolated places over Punjab, Haryana, Chandigarh &amp; Delhi, East Uttar Pradesh and Rajasthan.</p> <p><b>Thunderstorm accompanied with lightning</b> at isolated places very likely over Assam &amp; Meghalaya.</p> <p><b>Gale winds speed reaching 110-120 kmph gusting to 135 kmph</b> very likely to prevail over Gujarat coast and eastcentral &amp; adjoining northeast Arabian Sea; 50-60 kmph gusting to 70 kmph along &amp; off Maharashtra Coast. Sea condition is very likely to be very high to phenomenal over eastcentral &amp; adjoining northeast Arabian Sea and Gujarat coast; rough to very rough along &amp; off Maharashtra coast. Fishermen are advised not to venture into these areas.</p>
13June (Day 3)	<p><b>Thunderstorm accompanied with lighting and gusty winds (40-50 kmph)</b> at isolated places very likely over Gujarat region &amp; West Madhya Pradesh; <b>gusty winds (30-40 Kmph)</b> at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Coastal Andhra Pradesh and Odisha; <b>with dust storm &amp; gusty winds (30-40 Kmph)</b> at isolated places over Rajasthan.</p> <p><b>Gale winds speed reaching 110-120 kmph gusting to 135 kmph</b> very likely to prevail over north Arabian Sea and Gujarat coast; <b>50-60 kmph gusting to 70 kmph</b> along &amp; off</p>

	north Maharashtra Coast and northern parts of eastcentral Arabian Sea. Sea condition is very likely to be very high to phenomenal over north Arabian Sea; very rough to high along & off Gujarat and north Maharashtra coasts and northern parts of eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
14June (Day 4)	<b>Thunderstorm accompanied with lighting and gusty winds (40-50 kmph)</b> at isolated places very likely over Chhattisgarh; <b>Thunderstorm accompanied with lighting and gusty winds (30-40 kmph)</b> at isolated places very likely over East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh, Rayalseema, Tamilnadu and Odisha. <b>Thunderstorm accompanied with dust storm &amp; gusty winds (30-40 Kmph)</b> at isolated places over East Rajasthan.
15June (Day 5)	<b>Thunderstorm accompanied with gusty winds (40-50 kmph)</b> likely over Vidarbha and Chhattisgarh; <b>gusty winds (30-40 kmph)</b> at isolated places very likely over Coastal Andhra Pradesh, Telangana, Rayalseema and Odisha.

### Advisory for Thunderstorm

- In the above 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, provide mechanical support to young fruit plants, banana and staking in vegetables to prevent the crops from lodging due to strong winds. Postpone application of plant protection measures and fertilizers to the standing crops during strong / squally / gusty winds. Use hail net to protect from hail.

### Heavy rainfall

11 June (Day 1)	<b>Heavy rainfall</b> at isolated places very likely over Tamilnadu, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Konkan & Goa, Jammu & Kashmir, Coastal Karnataka and Kerala & Mahe.
12 June (Day 2)	<b>Heavy to very heavy rainfall</b> at isolated places very likely over Konkan & Goa; heavy rain at isolated places very likely over Tamilnadu, Gujarat, SubHimalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Jammu & Kashmir, Coastal Karnataka and Kerala & Mahe.
13 June (Day 3)	<b>Heavy to very heavy rainfall</b> at a few places with extremely heavy rainfall at isolated places very likely over Saurashtra & Kutch. Heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, south Gujarat region, Konkan & Goa, Coastal Karnataka and Kerala.
14 June (Day 4)	<b>Heavy to very heavy rainfall</b> at isolated places very likely over Saurashtra & Kutch; Heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Kerala.
15 June (Day 5)	<b>Heavy rainfall</b> at isolated places over Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and Kerala.

### Advisory for Heavy rainfall

- In Jammu & Kashmir, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka and Kerala & Mahe., postpone irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields. Keep harvested produce at safer places.

### Heat wave

11 June (Day 1)	<b>Heat Wave conditions</b> in many parts with <b>severe heat wave</b> in some parts very likely over Madhya Pradesh; Heat wave in many parts with severe heat wave in isolated pockets over West Rajasthan & Vidarbha; <b>Heat wave</b> in some parts with severe heat wave in isolated pockets over East Rajasthan & Chhattisgarh; <b>Heat wave</b> in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Marathwada, Coastal Andhra Pradesh, Telangana and Tamilnadu .
12 June (Day 2)	<b>Heat wave</b> in many parts with <b>severe heat wave</b> in isolated pockets over Madhya Pradesh & West Rajasthan; Heat wave in some parts with severe heat wave in isolated pockets over Chhattisgarh; Heat wave in some parts likely over Vidarbha; heat wave in isolated pockets over Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Marathwada, Coastal Andhra Pradesh, Telangana and Tamilnadu.
13 June (Day 3)	<b>Heat wave</b> in some parts over East Madhya Pradesh & West Rajasthan; in isolated pockets over East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Marathwada, Telangana and Odisha.
14 June (Day 4)	<b>Heat wave</b> in some parts over East Madhya Pradesh and in isolated pockets over West Rajasthan, West Madhya Pradesh, Chhattisgarh.
15 June (Day 5)	<b>Heat wave</b> at isolated pockets likely over West Rajasthan, Madhya Pradesh and Chhattisgarh.

### Advisory for Heat Wave

In above regions, apply light and frequent irrigation to the standing crops to cope up with the excess evaporative demand due to high temperature; undertake mulching with straw to conserve soil moisture. Provide shade for protection of young fruit plants from scorching sun.

### State-wise Advisories

#### Jammu & Kashmir

- In Intermediate Zone of Jammu & Kashmir, continue nursery sowing of rice and continue sowing of maize.
- In Sub Tropical Zone, continue nursery sowing of rice, undertake land preparation for sowing of rainy season bitter gourd, sponge gourd & bitter gourd and okra.

- In Valley Temperate Zone, undertake transplanting of rice, complete sowing of kharif pulses, undertake harvesting of oilseeds. Undertake sowing of kharif fodder crops like sorghum bajra and fodder maize with pre sowing irrigation or sufficient moisture in the field.

### **Assam, Meghalaya, Arunachal Pradesh, Mizoram, Meghalaya and Nagaland,**

- In Assam continue nursery bed preparation of *Sali* rice after current spells of heavy rain.
- In Hill Zone of Assam, undertake sowing of fodder crops (bajra, sorghum maize, lobia,)
- In Central Brahmaputra Valley Zone of Assam undertake land preparation and sowing of arhar and in Upper Brahmaputra Valley Zone of Assam, undertake planting of black pepper after current spells of heavy rain.
- In Manipur undertake nursery to main field preparation for kharif rice.
- In Meghalaya, continue planting of ginger and turmeric and sowing of french bean and cowpea.
- In Mizoram continue sowing of maize, undertake sowing of green gram and black gram and planting of turmeric and ginger.
- In Nagaland, continue field preparation for TRC/WRC rice and transplanting for Naga King chilli.
- In Arunachal Pradesh, undertake transplanting of rice. In Jhum rice, to control leaf blast & leaf spot, spray Carbendazim @ 2gm/liter water on clear/dry days

### **Uttarakhand**

- In Bhabar and Tarai Zone, undertake sowing of soybean, pigeon pea, maize, continue field preparation for nursery sowing of rice. Undertake harvesting of urd and mung.
- In Sub-Humid Sub-Tropic Zone, continue nursery sowing of rice.

### **Punjab, Haryana and New Delhi**

- In Undulating Plain Zone of Punjab, undertake nursery sowing of rice.
- In Haryana, continue sowing of cotton,
- In Haryana and Punjab continue sowing of rice nurseries.
- In Delhi, continue preparation of nursery of early cauliflower, tomato, chilli and brinjal.

### **Chhattisgarh**

- In Chhattisgarh, continue land preparation/nursery sowing of long duration rice. To enhance the fertility status of the soil of rice field, sow the green manure crops like, sunhamp, dhaincha .
- In Chattisgarh Plain Zone, undertake field preparation for sowing of Soybean, maize, groundnut.

## **Gujarat and Rajasthan**

- In South Gujarat sowing of Pigeon pea, green gram and black gram should be done immediately after rainfall.
- In Semi Arid Eastern Plain Zone of Rajasthan, undertake field preparation for sowing of kharif crops like pearl millet, sorghum, maize & cluster bean etc.

## **Odisha and West Bengal**

- In Odisha, continue land preparation for direct sowing of kharif crops. Undertake planting of yam.
- In New Alluvial Zone of West Bengal, continue sowing of jute. Continue sowing of green manure crops.
- In Old Alluvial Zone of West Bengal, continue field preparation for Aman rice, continue transplanting of ginger and turmeric.

## **Bihar and Jharkhand**

- In Bihar, continue land preparation for long duration rice, kharif maize and kharif onion crops. Continue planting of turmeric and yam.
- In Jharkhand, complete harvesting/threshing of rice in clear weather. Continue land preparation for sowing of kharif crops and early vegetables (long gourd, round gourd, bitter guard, sponge gourd, ridge gourd, cucumber and cowpea). Continue planting of ginger and turmeric.

## **Maharashtra**

- In Konkan region, undertake land preparation of kharif crops and application of plant protection measures after current spell of rain in Kolhapur district. Continue nursery sowing of rice and nagli. Complete land preparation for sowing of groundnut after current spells of rain.
- In Marathwada, continue land preparation for sowing of kharif crops like cotton, pigeon pea, black gram and groundnut.
- In East Vidarbha, continue nursery bed preparation for rice. Apply mulching in orchards, continue land preparation for sowing of pigeon pea.

## **Tamilnadu and Kerala**

- In Cauvery Delta Zone in Tamilnadu, continue land preparation for nursery sowing of rice for kuruvai season.
- In Kerala, undertake land preparation for transplanting of Virippu rice. Undertake direct sowing of rice crop and planting of new seedlings of coconut and banana after current spells of heavy rain.
- In Northern Zone of Kerala, undertake main field preparation for rice, undertake transplanting of coconut seedlings.
- In Problem Areas Zone of Kerala, undertake transplanting of rice.

## **Karnataka**

- In Eastern Dry Zone, undertake land preparation for sowing of kharif crops like maize, castor, groundnut, cowpea, redgram and black gram.
- In Southern Transition Zone, undertake sowing of maize.

## **Andhra Pradesh and Telangana**

- In Southern zone of Andhra Pradesh, continue land preparation for early kharif rice nurseries.
- In North Coastal Andhra Pradesh, continue sowing of sesame by utilizing the realized rainfall.
- In Southern Telangana, continue land preparation for timely sowing of rained crops.