

**Advisory for DD Kisan dated 14.06.19**  
**(Agromet Advisories mentioned in the inputs are prepared by different**  
**Agromet Field Units in the country)**

**Significant Weather Features**

- **The Very Severe Cyclonic Storm 'VAYU'** (pronounced as VAA'YU) over northeast and adjoining eastcentral Arabian Sea moved west-northwestwards with a speed of about 06 kmph in last six hours and lay centred at 0530 hours IST of today, the 14th June, 2019 near Lat. 21.0°N and Long. 68.5°E over northeast & adjoining eastcentral Arabian Sea, about 130 km southwest of Porbandar (Gujarat), 185 km west of Veraval (Gujarat) and 250 km west of Diu. This system is moving west-northwestwards skirting the Saurashtra coast affecting Porbandar & Devbhoomi Dwarka with wind speed 60-70 kmph gusting to 80 kmph and Gir Somnath and Junagarh with wind speed 40-50 kmph gusting to 60 kmph. It is very likely to continue to affect these districts during next 12 hours and wind speed over these districts is very likely to decrease gradually thereafter.
- Fishermen are advised not to venture into north Arabian Sea and along & off Gujarat coast till 15<sup>th</sup> June and into eastcentral Arabian Sea and along & off Maharashtra coast on 13<sup>th</sup> June.
- Northern Limit of Monsoon (NLM) now passes through Lat. 13°N/Long. 60°E, Lat. 13°N/Long. 70°E, Mangalore, Mysore, Salem, Cuddalore, Lat. 14°N/Long. 86°E, Lat. 20°N/Long. 90°E, Agartala, Lumding, Passighat and Lat. 29°N/Long. 97°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of central Arabian Sea, Karnataka, remaining parts of Tamilnadu, some more parts of central Bay, north & south Bay and some more parts of northeast India and some parts of north Bengal and Sikkim in 2-3 days.

**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 Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Konkan & Goa, Lakshadweep, Coastal Karnataka and Kerala; at many places over Madhya Maharashtra and Saurashtra & Kutch; at a few places over East Madhya Pradesh, Odisha, Marathawada, North Interior Karnataka and Gujarat Region and at isolated places over East Rajasthan, West Madhya Pradesh, Jammu & Kashmir, Himachal

Pradesh, Uttarakhand, West Bengal & Sikkim, Chhattisgarh, Arunachal Pradesh, South Interior Karnataka and Tamilnadu & Puducherry

- Heavy to very heavy rainfall observed at isolated places over Saurashtra & Kutch; heavy at a few places over Coastal Karnataka and at isolated places over Madhya Maharashtra and Andaman & Nicobar Islands.
- **Thunderstorm observed (from 1130 hours IST of yesterday to 0830 hours IST of today):** at isolated places over Jammu & Kashmir, Kerala, Chhattisgarh, Himachal Pradesh, Gujarat Region, North Interior & Coastal Karnataka, Madhya Pradesh, Chhattisgarh, Odisha, Coastal Andhra Pradesh, Tamil Nadu, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.
- Yesterday, Heat Wave Conditions observed in isolated pockets over West Rajasthan, West Madhya Pradesh, Vidarbha, Telangana and Coastal Andhra Pradesh & Yanam.
- **Maximum temperature departures as on 13-06-2019:** Maximum temperatures were markedly above normal (5.1°C or more) at many places over Assam & Meghalaya and at isolated places over Telangana and Arunachal Pradesh;
- Yesterday, the highest maximum temperature of **48.0°C** was recorded at **Phalodi** (West Rajasthan).

### **Weather Forecast for next 5 days upto 0830 hours IST 19<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)

14-June-2019

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

14June (Day 1)	<p><b>Thunderstorm accompanied with lightning and gusty winds (30-40 Kmph)</b> at isolated places very likely over Madhya Pradesh, Chhattisgarh, Bihar. Coastal Andhra Pradesh, Jharkhand, West Bengal &amp; Sikkim, Odisha and Tamilnadu, Puducherry &amp; Karaikal; with dust storm &amp; gusty winds (30-40 Kmph) at isolated places over Rajasthan.</p> <p><b>Gale winds speed of the order of 120-130 kmph gusting to 145 kmph</b> very likely over north Arabian Sea. Gale wind speed of the order of <b>60-70 kmph gusting to 80 kmph</b> very likely over Gujarat coast during next 12 hours and decrease gradually thereafter. It is very likely to be <b>40-50 kmph gusting to 60 kmph</b> over northern parts of eastcentral Arabian Sea. Strong wind speed of the order of <b>45-55 kmph</b> is very likely over northwest Bay of Bengal. The Sea condition is Phenomenal over north Arabian sea and over northern parts of east central Arabian sea during next 12 hours. The sea condition is rough to high over rest part of eastcentral part of Arabian sea. Fishermen are advised not to venture into north Arabian Sea, along &amp; off Gujarat coast and along &amp; off Maharashtra coast. Total Suspension of Fishing Operations.</p>
15June (Day 2)	<p><b>Thunderstorm accompanied with lightning and gusty winds (30-40 Kmph)</b> at isolated places very likely over Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh, Jharkhand, Sub-Himalayan West Bengal &amp; Sikkim, Jammu &amp; Kashmir, Odisha and Tamilnadu, Puducherry &amp; Karaikal; with dust storm &amp; gusty winds (30-40 Kmph) at isolated places over Punjab, Haryana, Chandigarh &amp; Delhi and Rajasthan.</p> <p><b>Gale winds speed of the order of 100-110 kmph gusting to 125 kmph</b> very likely over north Arabian Sea, along &amp; off Gujarat coast. <b>Squally wind speed of the 50-60 kmph gusting to 70 kmph</b> very likely over to Gujarat coast. Strong wind speed of the order of 45-55 kmph is very likely over westcentral Bay of Bengal. The Sea condition is Phenomenal over north Arabian sea. The sea condition is rough to very rough over rest part of eastcentral parts of Arabian sea. Fishermen are advised not to venture into north Arabian Sea and along &amp; off Maharashtra coast. Total Suspension of Fishing Operations.</p>
16June (Day 3)	<p><b>Thunderstorm accompanied with lightning, hail and gusty winds (40-50 Kmph)</b> at isolated places very likely over Himachal Pradesh and Uttarakhand; with gusty winds (<b>30-40 Kmph</b>) at isolated places over Jammu &amp; Kashmir, Madhya Pradesh, Chhattisgarh, Vidarbha, Telangana, Rayalaseema, Coastal Andhra Pradesh, Jharkhand and Odisha; with dust storm &amp; gusty winds (30-40 Kmph) at isolated places over Uttar Pradesh, Punjab, Haryana, Chandigarh &amp; Delhi and Rajasthan.</p> <p><b>Gale winds speed of the order of 80-90 kmph gusting to 100 kmph</b> very likely over north Arabian Sea, along &amp; off Gujarat coast. Squally wind speed of <b>the 45-55 kmph gusting to 65 kmph</b> very likely over to Gujarat coast. Strong wind speed of the order of <b>45-55 kmph</b> is very likely over central Bay of Bengal, <b>35- 45 kmph</b> over southwest Bay of Bengal. The Sea condition is Phenomenal over north Arabian sea. Fishermen are advised not to venture into north Arabian Sea and along &amp; off Maharashtra coast. Total Suspension of Fishing Operations.</p>
17June (Day 4)	<p><b>Thunderstorm accompanied with lightning, hail and gusty winds (40-50 Kmph)</b> at isolated places very likely over Himachal Pradesh and Uttarakhand; with <b>gusty winds (30-40 Kmph)</b> at isolated places over Jammu &amp; Kashmir, East Madhya Pradesh, Bihar, Gangetic West Bengal, Chhattisgarh, Vidarbha, Rayalaseema, Coastal Andhra Pradesh, Jharkhand and Odisha; with dust storm &amp; gusty winds (40-50 Kmph) at isolated places over Rajasthan; with dust storm &amp; gusty winds (30-40 Kmph) at isolated places over Uttar Pradesh, Punjab and Haryana, Chandigarh &amp;</p>

	Delhi. <b>Strong wind speed of the order of 35-45 kmph</b> is likely over west central and south Bay of Bengal, <b>35-45 kmph</b> over southwest Bay of Bengal. The Sea condition is Phenomenal over north Arabian sea. Fishermen are advised not to venture into north Arabian Sea and along & off Maharashtra coast. Total Suspension of Fishing Operations.
18June (Day 5)	<b>Thunderstorm accompanied with lightning and gusty winds (30-40 Kmph)</b> at isolated places very likely over Himachal Pradesh, Uttarakhand, Jammu & Kashmir, Bihar, Gangetic West Bengal, Chhattisgarh, Vidarbha, Coastal Andhra Pradesh, Jharkhand and Odisha; with dust storm & gusty winds ( <b>40-50 Kmph</b> ) at isolated places over Rajasthan; <b>with dust storm &amp; gusty winds (30-40 Kmph)</b> at isolated places over Uttar Pradesh, Punjab and Haryana, Chandigarh & Delhi. Strong wind speed of the order of <b>35-45 kmph</b> is likely over west central and south Bay of Bengal, 35-45 kmph over southwest Bay of Bengal

### 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

14June (Day 1)	Heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu & Puducherry, Konkan & Goa, Saurashtra & Kutch ,Coastal & South Interior Karnataka, Kerala and Andaman & Nicobar Islands.
15June (Day 2)	Heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Tamilnadu & Puducherry, Konkan & Goa, Coastal & South Interior Karnataka, Kerala and Sub-Himalayan West Bengal & Sikkim.
16June (Day 3)	Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim. Heavy rainfall at isolated places over Assam & Meghalaya, Arunachal Pradesh, Konkan & Goa and Coastal Karnataka.
17June (Day 4)	Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim. Heavy rainfall at isolated places over Assam & Meghalaya, Arunachal Pradesh, Konkan & Goa, Andaman & Nicobar Islands and Coastal Andhra Pradesh.
18June (Day 5)	Heavy rainfall at isolated places over Kerala, Konkan & Goa, Madhya Maharashtra, South Interior Karnataka, Andaman & Nicobar Islands and Coastal Andhra Pradesh.

### 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 in Assam, Meghalaya and Arunachal Pradesh, Konkan and Kerala.

### **Heat wave**

14June (Day 1)	Heat wave in isolated pockets over West Madhya Pradesh, Vidarbha, Gangetic West Bengal, Coastal Andhra Pradesh, Jharkhand and Telangana.
15June (Day 2)	Heat wave in isolated pockets over West Madhya Pradesh, Vidarbha, Gangetic West Bengal, Coastal Andhra Pradesh, Jharkhand and Telangana
16June (Day 3)	Heat wave conditions in isolated pockets very likely over Telangana.

#### **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, undertake land preparation for transplanting of rice in areas where seedlings are approaching near 4-5 leaf stage. Continue sowing of maize.
- In Sub Tropical Zone, continue nursery sowing of rice, undertake land preparation for sowing of rainy season bitter melon, sponge melon & bitter melon and okra.
- In Valley Temperate Zone, continue transplanting of rice, complete sowing of kharif pulses. Undertake sowing of kharif fodder crops like sorghum bajra and fodder maize.

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

- In Assam continue nursery bed preparation of *Sali* rice.
- In Hill Zone of Assam, undertake field preparation for sowing of pigeon pea and cotton. Continue planting of ginger.
- In Central Brahmaputra Valley Zone of Assam, continue land preparation and sowing of arhar.
- In Manipur continue 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.

### **Uttarakhand**

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

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

- In Western Zone of Punjab, undertake nursery sowing of rice.
- In Punjab, complete sowing of summer moong, summer mash, cowpea and cucurbits.
- In Haryana, continue sowing of cotton,
- In Haryana and Punjab continue sowing of rice nurseries.
- In Delhi, continue sowing of vegetables, green gram, pigeon pea and cotton. Undertake preparation of nursery for early cauliflower, tomato, chilli, brinjal and land preparation of rice.

### **Uttar Pradesh**

- In East Uttar Pradesh, undertake land preparation for rice nursery. Undertake planting of banana.

### **Madhya Pradesh and Chhattisgarh**

- In Central Narmada Valley Zone of Madhya Pradesh undertake nursery sowing of rice
- In Malwa Plateau Zone, of Madhya Pradesh undertake field preparation for sowing of pigeon pea and cotton. undertake planting of ginger and turmeric.
- In North Hill Zone of Chhattisgarh, prepare nursery for sowing of long duration rice varieties and undertake land preparation for sowing of vegetables

### **Gujarat and Rajasthan**

- In South Gujarat undertake land preparation for sowing of Pigeon pea, green gram and black gram should be done immediately after rainfall.
- In Middle Gujarat, undertake sowing of Bt. cotton. Continue land preparation for pearl millet, groundnut and nursery sowing of rice.
- In Saurashtra & Kutch, continue sowing of groundnut crop. Undertake sowing of irrigated hybrid cotton and B.T. cotton crop in Kutch. Continue land preparation for sowing of groundnut, sesame, pulses and pearl millet crops.

- In Semi Arid Eastern Plain Zone of Rajasthan, undertake field preparation for sowing of kharif crops like pearl millet, sorghum, maize & cluster bean etc.

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### **Odisha and West Bengal**

- In Odisha, complete sowing of direct seeded rice in low land and medium low land. Undertake sowing of arhar and maize, early sowing of kharif vegetables like okra and cucurbits. Complete the planting of turmeric & ginger.
- 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 South Bihar Alluvial Zone, undertake land preparation/sowing of rice, kharif maize.
- In Jharkhand, 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, continue nursery sowing of rice and nagli. Complete land preparation for sowing of groundnut and undertake sowing after current spells of heavy rain.
- In Madhya Maharashtra, undertake land preparation for kharif groundnut, undertake land preparation for sowing of green gram and soybean. Continue nursery bed preparation for rice and nagli.
- 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 of Tamilnadu, undertake nursery sowing of rice for kuruvai season.
- In North Western Zone of Tamilnadu, undertake land preparation for sowing of groundnut.
- In Kerala, continue land preparation for transplanting of Virippu rice. Continue direct sowing of rice crop and planting of new seedlings of coconut and banana.
- In Northern Zone of Kerala, continue main field preparation for rice, continue transplanting of coconut seedlings.
- In Problem Areas Zone of Kerala, continue transplanting of rice.

## **Karnataka**

- In Eastern Dry Zone, continue land preparation for sowing of kharif crops like maize, castor, groundnut, cowpea, redgram and black gram.
- In Southern Transition Zone, undertake sowing of maize and red gram.
- In Southern Dry Zone undertake land preparation and strengthen the bund to facilitate conservation of rainwater due to monsoon showers.
- In South Interior Karnataka, continue land preparation for kharif sowing of pulses (cowpea, green gram, black gram, horse gram, field bean etc), rice, ragi, sunflower, maize, minor millets, sugarcane and vegetable crops and undertake sowing wherever sufficient soil moisture is available in the field.

## **Andhra Pradesh and Telangana**

- In Southern zone of Andhra Pradesh, continue land preparation for early kharif rice nurseries.
- In Scarce rainfall Zone of Rayalaseema, procure the seed and fertilizers and keep the inputs ready to take up sowing only after receiving sufficient rainfall after onset of monsoon.
- In Southern Telangana, continue land preparation for timely sowing of rained crops.