

Advisory for DD Kisan dated 21.06.19
(Agromet Advisories mentioned in the inputs are prepared by different
Agromet Field Units in the country)

Significant Weather Features

- Southwest Monsoon has further advanced into some more parts of south Madhya Maharashtra, most parts of Karnataka, remaining parts of Tamilnadu, Puducherry & Karaikal, entire Andhra Pradesh, most parts of Telangana, some parts of south Chhattisgarh & Odisha, remaining parts of Bay of Bengal, most parts of West Bengal and some parts of Jharkhand and Bihar.
- Northern Limit of Monsoon (NLM) passes through Lat. 17°N/Long. 60°E, Lat. 17°N/Long. 70°E, Ratnagiri, Sangli, Bijapur, Ramagundam, Jagdalpur, Phulbani, Jamshedpur, Asansol, Purnea and Lat. 28°N/Long. 87°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into remaining parts of Central Arabian Sea, Karnataka, Telangana, Konkan & Madhya Maharashtra, entire Marathwada, some parts of Vidarbha, remaining parts of Chhattisgarh, Odisha, West Bengal, Bihar & Jharkhand and some parts of East Madhya Pradesh and East Uttar Pradesh during next 72 hours.
- The cyclonic circulation over north East Madhya Pradesh and adjoining south-east Uttar Pradesh now lies over East Uttar Pradesh and neighbourhood and extends upto 1.5 km above mean sea level.
- The low pressure area over northeast Bay of Bengal and neighbourhood now lies over north Bay of Bengal and adjoining areas of Bangladesh and West Bengal. Associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height.
- The trough at mean sea level now runs from northwest Rajasthan to the center of low pressure area over north Bay of Bengal and adjoining areas of Bangladesh and West Bengal across East Rajasthan, south Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal.
- A cyclonic circulation at 1.5 km above mean sea level lies over Haryana & neighbourhood. The shear zone between 3.6 & 7.6 km above mean sea level roughly along Lat.14°N across Peninsular India has become less marked.
- The cyclonic circulation over south Chhattisgarh and neighbourhood at 0.9 km above mean sea level has become less marked.
- The cyclonic circulation over Eastern parts of Bihar and adjoining areas of West Bengal and Jharkhand at 0.9 km above mean sea level has become less marked.
- The cyclonic circulation between 3.1 & 3.6 km above mean sea level over south Rajasthan and adjoining north Gujarat has become less marked.
- The offshore trough at mean sea level from south Maharashtra coast to Kerala coast persists and is feeble.
- The feeble Western disturbance as a cyclonic circulation between 3.1 & 3.6 km above mean sea level over north Pakistan and adjoining Jammu & Kashmir persists.
- A fresh Western disturbance is likely to affect Western Himalayan region from 23rd June

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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 Odisha, Telangana, Kerala & Mahe, Lakshadweep and Coastal Karnataka; at many places over Jammu & Kashmir, Jharkhand, West Bengal & Sikkim, Himachal Pradesh, Punjab, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Andaman & Nicobar, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya and Arunachal Pradesh; at a few places over West Rajasthan, Bihar, Rayalaseema, Konkan & Goa and Vidarbha and at isolated places over Uttarakhand, East Rajasthan, East Uttar Pradesh, Tamilnadu, Puducherry & Karaikal, North Interior Karnataka, Madhya Maharashtra and East Madhya Pradesh.
- **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at isolated places over Jammu & Kashmir, West Rajasthan, Chhattisgarh, Himachal Pradesh, Uttarakhand, Punjab, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Tripura, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, East Madhya Pradesh and Kerala & Mahe.
- Yesterday, Heat Wave Conditions were observed in some parts over Vidarbha and in isolated pockets over Bihar.
- **Maximum temperature departures as on 20-06-2019:** Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jharkhand and Vidarbha; at isolated places over Gangetic West Bengal, Odisha, Telangana, Madhya Maharashtra and Chhattisgarh.
- Yesterday, the **highest maximum temperature of 42.7°C** recorded at **Bikaner** (West Rajasthan).

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Weather Forecast for next 5 days upto 0830 hours IST 26th June 2019

- Widespread rainfall with isolated heavy/very heavy falls likely over northeast and adjoining eastcentral India.
- Scattered to fairly Widespread rainfall likely over central India & adjoining south Peninsula and along the West coast and Islands.
- Isolated to scattered rainfall likely over the rest of the country.
- 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

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

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

21 Jun (Day 1)	Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Vidarbha. Thunderstorm accompanied with lightning at isolated places very likely over Bihar, Jharkhand, Gangetic
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	West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
22 Jun (Day 2)	Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Rajasthan. Thunderstorm accompanied with lightning at isolated places over Bihar, Jharkhand and Gangetic West Bengal
23 Jun (Day 3)	Thunderstorm accompanied with lightning, hail & gusty winds (40-50 kmph) at isolated places likely over Uttarakhand; with gusty winds (30-40 kmph) & lightning at isolated places very likely over Jammu & Kashmir and with lightning at isolated places over Bihar and Jharkhand
24 Jun (Day 4)	Thunderstorm accompanied with lightning, hail & gusty winds (40-50 kmph) at isolated places likely over Uttarakhand; with gusty winds (40-50 kmph) & lightning at isolated places very likely over Jammu & Kashmir and Himachal Pradesh; with gusty winds (30-40 kmph) & lightning at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh and with lightning at isolated places over Odisha
25 Jun (Day 5)	Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; with lightning at isolated places over Odisha
Advisory for Thunder storm	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

21 Jun (Day 1)	Heavy to Very Heavy Rainfall at isolated places very likely over Chhattisgarh, Odisha and Coastal Karnataka. Heavy rainfall at isolated places over Coastal Andhra Pradesh, Telangana, Rayalseema, Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Konkan & Goa, Jharkhand, Gangetic West Bengal and Assam & Meghalaya
22 Jun (Day 2)	Heavy rainfall at a few places with very heavy rainfall at isolated places over Coastal Karnataka; Heavy to Very Heavy rainfall at isolated places over Interior Karnataka, Kerala & Mahe and Marathawada and heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu, Puducherry & Karaikal, Konkan & Goa, Madhya Maharashtra, East Uttar Pradesh, Chhattisgarh and Odisha
23 Jun (Day 3)	Heavy rainfall at a few places with very heavy rainfall at isolated places over Coastal Karnataka; Heavy to Very Heavy rainfall at

	isolated places over Kerala & Mahe and Madhya Maharashtra and heavy rainfall at isolated places over Interior Karnataka, Konkan & Goa, Marathwada, Uttarakhand, East Uttar Pradesh, Arunachal Pradesh and Assam & Meghalaya
24 Jun (Day 4)	Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and heavy rainfall at isolated places over Uttarakhand, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh and Coastal Karnataka
25 Jun (Day 5)	Heavy to Very Heavy rainfall with extremely heavy falls at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Arunachal Pradesh and heavy rainfall at isolated places over Bihar and Andaman & Nicobar Islands
Advisory for Heavy Rainfall	In Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Chhattisgarh, Odisha and Coastal Karnataka. Coastal Andhra Pradesh, Telangana, Rayalseema, Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Konkan & Goa, Jharkhand, Gangetic West Bengal, postpone, 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

Heat wave conditions very likely in isolated pockets over Vidarbha during next 24 hours.

Advisory for Heat wave

In view of heat wave condition in isolated pockets very likely over Vidarbha on 21st June, apply light and frequent irrigation to standing crops, vegetables and orchards.

State-wise Advisories

Jammu & Kashmir

- In Valley Temperate Zone, continue transplanting of rice, complete sowing of kharif pulses.
- In Sub Tropical Zone, undertake land preparation for transplanting of rice. Undertake sowing of maize.
- In Intermediate Zone, undertake land preparation for transplanting of rice.

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

- In Assam, continue nursery raising of Sali rice. Undertake main field preparation for transplanting of Sali paddy.
- In North Bank Plain Zone of Assam, undertake nursery bed preparation/sowing for Sali rice.

- In Arunachal Pradesh, continue transplanting of kharif rice.
- In Hill Zone of Assam, continue sowing of pigeon pea and cotton and in Central Brahmaputra Valley of Assam, continue sowing of arhar and groundnut after current spells of heavy rain.
- In Meghalaya, undertake nursery raising and main field preparation for sowing of Sali rice.
- In Mizoram, continue sowing of maize, green gram, black gram and planting of ginger and turmeric.
- In Tripura, continue transplanting of Aus rice Undertake nursery bed preparation for Aman rice

Uttarakhand

- In Bhabar and Tarai Zone, complete sowing of soybean, continue field preparation for nursery sowing of rice.
- In Sub-Humid Sub-Tropic Zone, continue nursery sowing of rice.
- In Hill Zone, undertake sowing of soybean and groundnut.
- In Hill Zone, undertake sowing of finger millets, soybean and black gram. Continue transplanting of rice

Punjab, Haryana and New Delhi

- In Western Zone of Punjab, continue nursery sowing of rice.
- In Punjab, undertake transplanting of vegetables (tomato, chilli, brinjal, cauliflower). Complete sowing of cotton including Bt cotton or desi Cotton and planting of turmeric. Undertake transplanting of rice. In Haryana, continue sowing of cotton,
- In Haryana and Punjab continue sowing of rice nurseries.
- In Delhi, undertake transplanting of nursery for early cauliflower, tomato, chilli, brinjal whose seedlings are ready and land preparation of rice. Undertake sowing of cucurbits in rainy season and prepare the fields for maize crop.
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Madhya Pradesh and Chhattisgarh

- In Central Narmada Valley Zone of Madhya Pradesh continue nursery sowing of rice
- In Malwa Plateau Zone, of Madhya Pradesh continue 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 Middle Gujarat, continue sowing of Bt. cotton. Continue land preparation for pearl millet, groundnut crops. Undertake nursery sowing of rice, vegetable crops (tomato, chili, etc).
- In Saurashtra & Kutch, continue land preparation for sowing of groundnut, sesame, pulses and pearl millet crops.
- In South Gujarat, continue land preparation for sowing of pigeon pea, green gram and black gram crops. Complete nursery sowing of rice.
- In Flood Prone Eastern Plain Zone of Rajasthan, continue field preparation for sowing of kharif crops

- In Semi Arid Eastern Plain Zone of Rajasthan, undertake sowing of irrigated groundnut, cucurbits like khira, bottle gourd, ridge gourd, bitter gourd & cucumber

Odisha and West Bengal

that khara for sowing of rice as early as possible

- In North Central Plateau Zone of Odisha, undertake sowing of maize (for green cob purpose), arhar, groundnut and ragi.
- In North Eastern Ghat Zone of Odisha, undertake sowing of maize (for green cob purpose) , arhar,. Undertake sowing of green manuring crops like Sesbania and sunhemp in the areas receiving convectional rain
- In Sub-Himalayan West Bengal, undertake planting of ginger and turmeric in the main field after current spells of heavy rain. Undertake field preparation for transplanting of Aman rice.
- In Gangetic West Bengal, complete the final land preparations in upland areas and go for sowing of the rice as early as possible.

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, continue land preparation/sowing of rice, kharif maize.
- In Western Plateau Zone of Jharkhand, undertake sowing of arhar, urd, jowar, soyabean, maize, groundnut and rice.
- In Central & North Eastern Plateau Zone of Jharkhand, undertake land preparation for direct seeding and nursery bed for seedling for kharif rice, land preparation for sowing of arhar and maize.

Maharashtra

- In Konkan region, continue nursery sowing of rice and nagli. Undertake land preparation for sowing of groundnut after current spell of heavy rain. Undertake sowing of kharif vegetables like chilli, brinjal, tomato, okra, cucumber, bitter gourd, snake gourd, ridge gourd, Snap melon etc.
- In Madhya Maharashtra, Complete land preparation for kharif sowing like soybean, tur and cotton. 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 West Vidarbha, continue land preparation for kharif sowing of soybean and cotton.
- In East Vidarbha, continue nursery bed preparation for rice, continue land preparation for sowing of pigeon pea, cotton and soybean.

Tamilnadu and Kerala

- In Cauvery Delta Zone of Tamilnadu, continue nursery sowing of rice for kuruvai season.
- In North Western Zone of Tamilnadu, continue 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 Problem Areas Zone of Kerala, continue transplanting of rice.

- In Central Zone of Kerala, undertake transplanting of rice.

Karnataka

- 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.
- In North East Transition Zone, undertake sowing of greengram, blackgram, Jowar and soybean first and then sowing of pigeonpea after receipt of rainfall.
- In Coastal zone, undertake nursery preparation of rice.
- In Southern Transition Zone, continue sowing of maize and redgram.
- In Hill zone, undertake sowing of rice, maize and cotton. Undertake planting of Arecanut.

Andhra Pradesh and Telangana

- In Southern Zone of Andhra Pradesh, farmers are advised to take up groundnut sowing only if 50-60 mm rainfall in light soils and 60-70 mm in heavy soils got accumulated.
- In Scarce rainfall Zone of Rayalaseema, procure the seed 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. Undertake sowing of rainfed crops like soybean, jowar, maize, redgram, greengram, cotton etc., with the onset of South-West monsoon rains.
- In Northern Telangana, undertake land preparation for sowing of rainfed crops like maize, soybean, redgram, greengram and cotton etc and undertake sowing with the onset of monsoon. Procure and keep ready the seed, fertilizer and for timely sowing rainfed crops.