

Advisory for DD Kisan dated 23.07.19
(Agromet Advisories mentioned in the inputs are prepared by different
Agromet Field Units in the country)

Significant Weather Features

- The monsoon trough is very likely to shift southwards from its current position and deepen gradually from tomorrow. In this scenario, the rainfall activity is very likely to increase over central India, adjoining northern parts of peninsular India and also along the northern plains from 24th July for the subsequent 3-4 days. Hence fairly widespread to widespread rainfall with isolated heavy falls are likely over Madhya Pradesh, Chhattisgarh, West Bengal, Odisha, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Rajasthan, Maharashtra & Goa during this period.
- The intensity of rainfall over Kerala and Karnataka is very likely to reduce gradually from today with the further northward shift in the low level wind convergence zone towards Konkan.
- With the likely southward shift of the monsoon trough and probable formation of a low pressure area over coastal areas of West Bengal around 26th July, the intensity of rainfall over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim is also likely to reduce after 48 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 hrs IST of today):** at most places over Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka, Assam & Meghalaya, Arunachal Pradesh, Rayalaseema, Konkan & Goa and Kerala & Mahe; at many places over Nagaland, Manipur, Mizoram & Tripura, West Rajasthan, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands; at a few places over Gujarat state and Odisha and at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Telangana.
- **Very heavy rainfall observed with extremely heavy falls** at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka and Konkan & Goa; Very heavy rainfall observed at most places over Coastal Karnataka and at isolated places over South Interior Karnataka and **Heavy rainfall** observed at isolated places over Saurashtra & Kutch, Kerala & Mahe and Arunachal Pradesh.
- **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir, Uttarakhand, Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Bihar, Jharkhand, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.

Weather Forecast for next 5 days upto 0830 hours IST 28th July 2019

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

- No significant change in maximum temperatures likely over major parts of the country during next 2- 3 days.

Table -1

5 Day Rainfall Forecast (MID-DAY)

23-July-2019

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

% Station Reporting Rainfall

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

Weather Warning

Thunderstorm accompanied with lightning

23 July (Day 1)	Thunderstorm accompanied with lightning very likely at isolated places over north Rajasthan, Punjab, Uttar Pradesh, Haryana, Chandigarh & Delhi, Bihar, Jharkhand, Odisha and West Bengal & Sikkim.
24 July (Day 2)	Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha and West Bengal & Sikkim.

Heavy rainfall

23 July (Day 1)	Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Konkan & Goa; Heavy to very heavy rainfall with extremely heavy falls at isolated places over Coastal Karnataka, Assam & Meghalaya and SubHimalayan West Bengal & Sikkim; Heavy to very heavy rainfall at isolated places over Kerala & Mahe and South Interior Karnataka and heavy rainfall at isolated places over Tamilnadu, Puducherry & Karaikal, East Uttar Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Punjab, Jharkhand, Bihar and Arunachal Pradesh.
24 July (Day 2)	Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Konkan & Goa; Heavy to very heavy rainfall at isolated places over Uttar Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar and Coastal Karnataka and heavy rainfall at isolated places over East Rajasthan, Kerala & Mahe, South Interior Karnataka, Madhya Pradesh, Madhya Maharashtra, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal, Odisha, Jharkhand and Nagaland, Manipur, Mizoram & Tripura.
25 July (Day 3)	Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over West Uttar Pradesh; Heavy to very heavy rainfall at isolated places over Konkan & Goa, West Madhya Pradesh, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, Uttarakhand and East Rajasthan and heavy rainfall at isolated places over Kerala & Mahe, Lakshadweep, Karnataka, Telangana, Madhya Maharashtra, East Madhya Pradesh, Chhattisgarh, Jammu & Kashmir, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.
26 July (Day 4)	Heavy to very heavy rainfall likely at isolated places over Konkan & Goa, West Madhya Pradesh, Odisha and East Rajasthan and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, Gangetic West Bengal, Jharkhand, Chhattisgarh, Assam & Meghalaya, East Madhya Pradesh, Madhya Maharashtra, Gujarat region, Telangana, Karnataka and Kerala & Mahe.
27 July (Day 5)	Heavy to very heavy rainfall likely at a few places over Konkan & Goa and at isolated places over Madhya Maharashtra, West Madhya Pradesh, Assam & Meghalaya, Odisha and East Rajasthan and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, West Rajasthan, West Bengal & Sikkim, Jharkhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat region, Telangana and Coastal & North Interior Karnataka.
Advisory for Heavy rainfall	Postpone intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields. Provide mechanical support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to heavy rain.

Rough to very rough sea conditions

23 July (Day 1)	Strong winds, speed reaching 40-50 kmph, are likely to prevail over southwest & westcentral Arabian Sea. Rough to very rough sea conditions along & off Karnataka-Kerala coasts and Lakshadweep Islands. Fishermen are advised not to venture into these areas.
24 July (Day 2) To 27 July (Day 5)	Strong winds, speed reaching 40-50 kmph, are likely to prevail over southwest & westcentral Arabian Sea. Fishermen are advised not to venture into these areas

State-wise Advisories

Assam, and Meghalaya

- In Hill zone of Assam, drain out excess water from nursery bed of rice as widespread rainfall is likely to occur for next 5 days..
- In Upper Brahmaputra Valley Zone of Assam, in heavily flooded areas selecte highland areas for raising rice short duration varieties till 1st week of August. Continue transplanting of sali rice seedlings in flood unaffected areas.
- In Central Brahmaputra Valley Zone of Assam, undertake sowing of Kharif sesame, and continue transplanting of Sali rice after current spells of rain .
- In Meghalaya continue transplanting of rice seedlings (of 20-25 days old). Maintain proper drainage in ginger, turmeric and maize fields.

Himachal Pradesh

- Complete sowing of rice nursery. Complete sowing of maize in areas where sufficient rains has occurred, undertake sowing of raddish and turnip.

Punjab, Haryana & Delhi

- In Punjab, complete sowing of cotton including Bt cotton or desi Cotton, mash and moong and planting of turmeric. Complete the transplanting of rice.
- In Haryana, complete transplanting of rice, undertake transplanting of cauliflower, undertake sowing of bottle gourd, sponge gourd, bitter gourd, ash gourd, round melon.
- In Delhi, continue transplanting of nursery for early cauliflower, tomato, chilli, brinjal whose seedlings are ready and land preparation of rice. Undertake sowing of soybean, maize, bajra and short duration varieties of pigeon pea.

Bihar and Jharkhand

- In South Bihar Alluvial Zone of Bihar, drain out excess water in maize. Complete sowing of vegetables like bottleguard, brinjal, okra and chilli and transplanting of kharif onion.
- In North East Alluvial Zone of Bihar, undertake transplanting of rice.
- In Jharkhand, in medium land areas, undertake direct sowing of short duration varieties of rice and short duration varities of maize.

Madhya Pradesh

- In Bundelkhand Zone, undertake sowing of moong, urd and kharif vegetables like ladyfinger, bottle guard, cucurbits, spong guard and beans.

Chhattisgarh

- In North Hill Zone, complete the transplanting of rice as early as possible. Continue sowing of soybean, arhar, sesamum, and maize crops. In upland areas undertake intercropping of maize with urd.
- In Chhattisgarh Plain Zone, continue nursery sowing of rice. In districts where deficient rainfall is received undertake sowing of moong.
- In Bastar Plateau Zone, in low land undertake sowing of late duration varieties of rice.

Gujarat

- In South Gujarat Heavy Rainfall Zone, continue nursery sowing of kharif rice, sowing of pulses like, pigeon pea, green gram and black gram, undertake planting of elephant foot yam after receipt of sufficient rainfall.
- In Middle Gujarat, continue sowing of pearl millet and groundnut after receipt of sufficient rainfall.
- In North Saurashtra Zone, undertake sowing of castor and pulses like black gram and mung after receipt of sufficient rainfall.

Uttar Pradesh and Uttarakhand

- In Uttar Pradesh, continue transplanting of rice.
- In East Uttar Pradesh, undertake sowing of groundnut, arhar, soybean, sunflower, lobia, jowar, bajra and maize.
- In Bhabar and Tarai Zone of Uttarakhand, continue transplanting of cole crops. Drain out excess water from vegetable fields.

Maharashtra

- In Konkan region, Complete the transplanting up to the end of this month. Complete sowing of groundnut.
- In Madhya Maharashtra, in the district which have not received sufficient rainfall undertake sowing of alternate crops like sunflower, pigeon pea, castor, pearl millet as sole crop or intercrop such as sunflower + pigeon pea, pearl millet + pigeon pea (2:1) after receipt of sufficient rainfall.
- In Marathwada, The areas where sowing was not completed, undertake sowing after receipt of sufficient rainfall (75 mm and above). Make use of contingency crops like Pearl millet + pigeonpea, soybean + pigeonpea, pigeonpea + soybean, sunflower, castor, niger, sesamum, coriander for sowing.
- In West Vidarbha, in deficient areas with insufficient soil moisture, remaining sowing of kharif crops should be done upon receipt of sufficient rains. For late sown condition preferably use early duration crop varieties and recommended contingency crops like sesame, pearl millet, sunflower, pearl millet+pigeonpea(4:2), sunflower+pigeonpea (2:1). Avoid remaining sowing of cotton and replace cotton with alternate recommended contingency
- In East Vidarbha, continue transplanting of rice seedling (20 to 22 days old), Continue sowing of vegetable crops like bhindi, cucumber, bitter gourd, pumpkin and tinda etc.

Karnataka

- In North East Transition Zone, undertake sowing of pigeonpea.
- In Southern Transition Zone, undertake nursery sowing of rice, undertake sowing of redgram, groundnut and ragi.

Kerala

- In Kerala provide proper drainage facilities to the transplanted viruppu rice, coconut, vegetables fields and provide mechanical support to banana to avoid damage due to heavy rainfall and suspected pest & diseases during the rainy period.

Andhra Pradesh and Telangana

- Due to receipt of deficient rainfall in South Telangana undertake direct sowing of rice.
- In North Coastal Andhra Pradesh, continue sowing of rice.
- In Krishna Godavari Zone of Andhra Pradesh, continue sowing of cotton and redgram.
- In Northern Telangana zone, undertake sowing of Redgram as intercrop in cotton and maize.