

# **Advisory for DD Kisan dated 24.08.18**

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

## **Significant Weather Features**

- Under the influence of a cyclonic circulation lying over northern parts of Gangetic West Bengal and neighborhood, a low pressure area is likely to form over northwest Bay of Bengal and neighborhood during next 48 hours. Its likely west-northwestward movement along the monsoon trough could help in maintaining the enhanced rainfall activity over the northern plains and East India during next 4-5 days.
- The northern belt comprising Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar and Meghalaya is likely to get widespread rainfall with isolated heavy to very heavy falls during next 24-48 hours. There could also be isolated extremely heavy falls over Uttarakhand & Meghalaya during next 24 hours. Northern parts of Madhya Pradesh, Chhattisgarh & East Rajasthan is likely to continue to get heavy rainfall during next 2-3 days.
- Widespread rainfall with isolated heavy/very heavy rainfall is also likely over Odisha, Jharkhand & Gangetic West Bengal during next 3 days in association with the genesis of the above low pressure area.
- A marginal increase in the rainfall activity is likely over the southern states during next 3-4 days and over Gujarat on 27 & 28 August.

## **Realised Rainfall**

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

- Rain/thundershowers observed at most places over Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Gujarat, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Coastal Karnataka; at many places over Himachal Pradesh, Punjab, Uttarakhand, Madhya Maharashtra, Marathwada, Bihar, Assam & Meghalaya, Interior Karnataka and Telangana; at a few places over Jammu & Kashmir, East Rajasthan, Haryana, Chandigarh & Delhi, Jharkhand, Odisha, Coastal Andhra Pradesh and at isolated places over West Rajasthan, Vidarbha, Gangetic West Bengal, Arunachal Pradesh, Kerala, Tamil Nadu & Puducherry, Lakshadweep and Rayalaseema.

## 5 Day Rainfall Forecast (Mid-day) 24<sup>th</sup> August 2018

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

### % 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

- 24 August (Day 1):** Heavy to very heavy rain with extremely falls at isolated places very likely over Assam & Meghalaya and Uttarakhand; heavy to very heavy rain at isolated places very likely over Bihar, Uttar Pradesh & Himachal Pradesh and heavy rain at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Odisha, West Bengal & Sikkim, Andaman & Nicobar Islands, East Rajasthan, north Chhattisgarh, Madhya Pradesh, coastal Tamil Nadu, Coastal & South Interior Karnataka, Coastal Andhra Pradesh and Telangana.

Rough to very rough sea conditions are likely to prevail over west central Arabian sea. Fishermen are advised not to venture in this area.

- 25 August (Day 2):** Heavy to very heavy rain at isolated places very likely over Jharkhand, Odisha, Uttar Pradesh, Uttarakhand and East Madhya Pradesh; heavy rain at isolated places very likely over Assam & Meghalaya, Bihar, Gangetic West Bengal, Andaman & Nicobar Islands, East

Rajasthan, north Chhattisgarh, West Madhya Pradesh, Konkan & Goa and Coastal & South Interior Karnataka.

Rough to very rough sea conditions are likely to prevail over west central Arabian sea. Fishermen are advised not to venture in this area.

- **26 August (Day 3):** Heavy to very heavy rain at isolated places very likely over Odisha; heavy rain at isolated places very likely over Assam & Meghalaya, Gangetic West Bengal, Jharkhand, East Rajasthan, West Uttar Pradesh, Haryana, Chandigarh & Delhi, north Chhattisgarh, East Madhya Pradesh and Konkan & Goa and Coastal & South Interior Karnataka.

Rough to very rough sea conditions are likely to prevail over west central Arabian sea. Fishermen are advised not to venture in this area.

- **27 August (Day 4):** Heavy rain at isolated places likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, East Rajasthan, West Uttar Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, south Gujarat Region, Coastal Karnataka and Kerala.
- **28 August (Day 5):** Heavy to very heavy rain at isolated places likely over Gujarat Region; heavy rain at isolated places likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Uttarakhand, Chhattisgarh, East Madhya Pradesh, Saurashtra & Kutch, Coastal Karnataka and Kerala.

## Agromet Advisories for *Kharif* crops from different AMFUs in the country

### State-wise Advisories

#### Arunachal Pradesh

- Carry out weeding in rice field. Undertake immediate sowing of certified seeds of crops like French bean, pumpkin and okra. Carry out earthing up in ginger field. Harvest matured cobs of maize.
- Monitor rice crop against sheath blight. For control, spray Sheathmar @ 3 g per litre of water on a non-rainy day.

#### Assam

- Transplanting of Sali rice may be completed. In case of transplanting of over-aged seedlings, closer spacing (8 inch x 6 inch) with more number of seedlings (6-7 seedlings/hill) is advised. Continue transplanting of 60-70 days old seedlings of Gitesh and Prafulla in the main fields. Damaged hills of rice in the main field should be replaced by new seedlings or by splitting already established healthy hills. Select recommended varieties like Pusa Synthetic, Pusa Snowball, Improved Japanese, etc., for mid sowing of Cauliflower seeds. Well drained loam to clay loam soil is suitable for mid and late varieties. Continue sowing black gram and green gram. Select improved varieties like T-9, T-27, Pant U 19, T-122, Saonia mah (SB121), KU 301 and USJD113 for black gram and T44, Kopergaon, K851, ML56, ML131, SG1 (Pratap), SGC16, SGC20, Sonai (SG21-5) etc for green gram. Harvest jute crop at the small pod stage to get optimum yield and good quality of fibre. Sowing of sesamum seeds should be completed within this month. Select recommended varieties like Gauri, Binayak, RT-1, Punjab Til No-1 etc. Collect promising varieties like INR 1008, TANU-9 or other local varieties for cultivation of finger millet.
- Present weather is conducive for rice hispa in Sali paddy at tillering stage. To control, use mechanical methods and avoid spraying of pesticides.

## **Meghalaya**

- Prepare nursery bed for sowing of cole crops. Sow the seeds of broccoli (varieties Pushpa, Aiswarya, Fiesta, Lucky, etc.); cabbage (H-139) & cauliflower (local) in the nursery at 5 cm spacing between the line under the protected structures. Maintain 5 cm of standing water in rice field. Maintain proper drainage in ginger, turmeric, maize and cucurbit fields.

## **Manipur**

- Maintain 5-7cm water level in the kharif rice field at tillering and panicle initiation stage. Carry out weeding at tillering stage after the rains. Carry out weeding and earthing up and provide drainage in black gram, rice bean, soybean and groundnut crops.
- In the rice field, spray Coragen 3-5 ml per 15 litres of water at early stage infestation of case worm, stem borer, gall midge, hoppers and thrips after current spells of rain.

## **Mizoram**

- Transplant 2-3 seedlings of kharif rice in one place to avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling. Maintain proper drainage in passion fruit, coffee, rubber and oil palm plantations and in maize, pulses and paddy fields. Carry out earthing up in ginger and turmeric crops. Undertake planting of rubber at newly established place.

## **Tripura**

- For better pod formation in groundnut, undertake hand weeding along with earthing up at 20 and 40 days after sowing.
- Carry out weeding in paddy fields at tillering stage of Aman rice. Harvest Aus rice and keep it under shed.

## **Nagaland**

- Carry out earthing up in soybean, ginger and turmeric field after current spells of rain. Monitor TRC/WRC paddy against brown spots.

## **Kerala**

- In areas not affected by flood, due to continuous rain, there is a chance of foot rot in pepper. Add 2 kg Trichoderma to a mixture of 90 kg FYM and 10 kg Neemcake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to each matured vine to control foot rot of pepper. Severely affected pepper vines should be sprayed with and soil should be drenched with 1% Bordeaux mixture or 20 g Pseudomonas fluorescens or 2.5 g copper oxychloride or 2 g copper hydroxide in one litre of water.

## **Andhra Pradesh**

- In Coastal Andhra Pradesh, continue transplanting of rice. Clip the leaf tips before transplanting. Transplant 33 seedlings per square meter and maintain 2-3 seedlings per hill. Drain out excess stagnated water from the fields of direct sown paddy.
- In Rayalaseema, take up sowing of contingency crops like red gram, castor, cowpea, kora, bajra and horse gram instead of rain-fed groundnut as there will be yield reduction in late sown crop. As iron deficiency was observed in rice in few parts, spray Ferrous Sulphate @ 5g/litre of water 2 times at 7 days interval.

## Telangana

- Continue transplanting of rice and transplanting of chilli.
- Prevailing weather conditions are congenial for the incidence of hispa and stem borer in rice. To control hispa, spray Quinalphos or Profenophos @ 2 ml or Chlorpyrifos @ 2.5 ml per liter of water.

## Tamil Nadu

- Take up land preparation for transplanting of Samba rice varieties like CR 1009 (Sub 1), ADT 50 and ADT 51. Dry seeding with seed drill can also be taken up. Treat seeds with pseudomonas fluorescence 10g/kg of seed before sowing. Continue land preparation for sowing of irrigated as well as rain-fed maize crop. Utilizing the rainfall, take up sowing of sorghum and cowpea under rain-fed lands. Provide support to sugarcane, banana and pepper plants. Apply foliar spray of castor gold (0.5 ml / litre of water) in castor crop field to arrest flower dropping and good capsule setting during current weather condition.

## Karnataka

- In North Interior Karnataka, continue sowing of red gram (late sown -August month) crop with 25% higher seed rate under sufficient moisture condition. Continue intercultural operations in pigeon pea, soybean and maize crops to conserve soil moisture. Prepare the ridges and furrows and compartment bunds in the lands reserved for rabi sowing so as to conserve moisture in the soil which will be helpful for the rabi crops.
- In Coastal Karnataka, to avoid the Zinc deficiency in rice field, apply Zinc Sulphate @ 20 kg / ha. Undertake planting of arecanut and pepper.
- In South Interior Karnataka, undertake sowing of short duration crops like cowpea (vegetable purpose), field bean, horse gram, Foxtail millet, Little millet, Kodo millet, ragi crops.
- In North Interior Karnataka, to manage aphids in black gram, spray Dimethoate @ 1.7 ml / liter of water in clear weather. For the control of leaf eating caterpillars in soybean, spray Quinalphos @ 2 ml or Monocrotophos @ 1ml or Chlorpyrifos @ 2 ml dissolved in one liter of water.

## Odisha

- In Western Undulating Zone, undertake weeding in transplanted rice after current spells of rain. In direct seeded rice at seven to eight week stage, maintain water level upto 5cm in the fields. Provide adequate drainage in the fields of pulses, maize and groundnut.
- Early sown maize crop is at 6 to 7 week stage. Apply 8 kg N/acre followed by earthing up provide adequate drainage in maize, groundnut. Continue planting of lemon, banana, papaya and mango saplings after current spells of heavy rain.
- Wrapping and propping should be done in 4-5 months old sugarcane. To control early shoot borer, spray Chlorpyrifos or Quinalphos @ 400 ml/ac in 200 litres of water after current spells of rain.

## Bihar

- In view of the widespread rainfall with heavy to very heavy rainfall at isolated places during next two days, provide adequate drainage in maize, groundnut and vegetable fields.
- In the upland areas, where rice could not be transplanted due to deficient rainfall, September Pigeon pea could be sown after 25th August. So, Land preparation is advised after current spells of heavy rainfall. Pusa-9 and Sarad varieties are recommended for sowing in North Bihar.

- Continue planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, custard apple, lemon etc. after current spells of heavy rain. Before planting, application of 40-50 kg FYM per plant is advised.
- Regular monitoring is advised for infestation of stem borer in rice crop at tillering stage. If infestation is observed, apply Cartap hydrochloride 4G(Caldan) @10kg/acre .

### **Jharkhand**

- In fallow uplands, farmers may sow Kulthi or Niger. Improved variety of Kulthi are V.L.G.-19 or Birsa kulthi-1 and of Niger are Birsa niger-1, Birsa niger-2, Birsa niger-3, Pooja-1 after current spells of heavy rain.
- Strengthen the bunds of the rice fields. Broadcast urea after 20-25 days of transplanting of rice. Undertake weeding before broadcasting. To control stem borer attack in rice, spray Monocrotophos 36 E.C. @ 1-2 ml per litre of water and mix Tipol in the solution or prepare the solution in soap water.

### **West Bengal**

- In the Sub-Himalayan West Bengal, provide proper drainage facility in soybean, ginger and turmeric fields. Carry out weeding in large cardamom field. Harvest matured cobs of maize and matured fruits of round chilli. Keep the Jute plants bundle submerged in fresh & flowing water with concrete or stone stack for good quality fiber. Undertake sowing of black gram in uplands after seed treatment. Remove excess water from kharif vegetable fields.
- In Gangetic West Bengal, maintain proper water level in the Aman wet seeded paddy field. Weeding should be done at regular interval by hand weeding in the main field. Undertake sowing of sweet corn and baby corn on a raised bed.

### **Maharashtra**

- In south Konkan, maintain water level of 5-10 cm in rice field at panicle initiation stage. In North Konkan, maintain water level of 3-5 cm by bunding rice field. Drain out excess water from the fields. For control of blast disease in rice, spray Tricyclazole @ 10 g or Isoprothiolane @ 10 ml per 10 litres of water after current spell of rain.
  - In Madhya Maharashtra, maintain 3 to 5 cm water level in rice field in western Ghat region. For control of pod borer/ hairy caterpillar in green gram, spray Quinalphos 25 EC @ 20 ml per 10 liter of water on a non-rainy day. To control parawilt in cotton, undertake drenching with solution of Urea @ 1.5 kg + Potash @ 1.5 kg in 100 litres of water (150-200 ml per plant) on a non-rainy day.
  - In Marathwada, to control attack of leaf eating caterpillar and american bollworm in soybean, spray Chlorantraniliprole 18.5 % @ 60 ml per acre or Indoxarab 15.8 % @ 140 ml per acre. To control pod blight and charcoal rot in soybean, spray Carbendazim 12 % + Mancozeb 63 % @ 200 g per acre. Drain out excess water from tumeric field, undertake drenching with Copper Oxychloride @ 25 g per 10 liter of water.
  - In west Vidarbha, undertake plucking of green pods of green gram. To control stem fly in soybean, remove and destroy infested plant parts, if incidence is above ETL level (10% infested plants) , spray Ethion 50% EC @ 30 ml or Indoxacarb 15.8% EC @ 6.7 ml or Chlorantraniliprole 18.5% @ 3 ml per 10 liters of water on a non-rainy day.
- In East Vidarbha, maintain 2-3 cm water level in rice fields.