

Advisory for DD Kisan dated 21.09.18

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

Significant Weather Features

- The deep Depression over south Odisha & neighbourhood moved further west-northwestwards during past six hours and lay centered at 0830 hrs IST of today, the 21st September, 2018 over Interior Odisha & adjoining Chhattisgarh near latitude 20.5°N and longitude 82.5°E, about 120 km eastsoutheast of Raipur (Chhattisgarh) and about 80 km west of Titlagarh (Odisha). It is very likely to continue to move west-northwestwards and weaken gradually into a Depression during next 12 hours.
- Initial west northwestwards movement of the system is very likely to cause widespread rainfall with scattered heavy to very heavy and isolated extremely heavy falls over Vidarbha and widespread rainfall with isolated heavy to very heavy falls over south Chhattisgarh and Telangana during next 24 hours.
- Subsequent to the weakening, the system is very likely to recurve northwards and then northeastwards under the influence of an approaching westerly trough during 23rd-25th September. Probable interaction of these two systems is likely to cause widespread rainfall with heavy to very heavy and extremely heavy falls over Himachal Pradesh and Uttarakhand during 23rd-24th September and fairly widespread to widespread rainfall with isolated heavy to very heavy falls over the plains of northwest India during 22nd-24th September. There is also a possibility of occurrence of thunderstorms with hailstorms over Western Himalayan region on 21st and 22nd September.
- Heavy to very heavy rain with extremely heavy falls occurred at isolated places over Odisha and Gangetic West Bengal and heavy rain at isolated places over Tripura, Konkan, Madhya Maharashtra, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh from 0830 hrs IST of yesterday to 0830 hrs IST of today.

Realised Rainfall

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

- Rain/thundershowers observed at most places over Bihar, Jharkhand, Coastal Andhra Pradesh, Odisha and Gangetic West Bengal; at many places over East Uttar Pradesh, Konkan & Goa, Chhattisgarh, Coastal Karnataka, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; at a few places over Vidarbha, Telangana, Madhya Maharashtra, Interior Karnataka, Lakshadweep and Kerala; at isolated places over Rayalaseema, Tamilnadu & Puducherry, Madhya Pradesh, Uttarakhand and Assam & Meghalaya.

- Thunderstorm observed at a few places over Assam & Meghalaya, at isolated places over Odisha, Bihar, Gangetic West Bengal, East Madhya Pradesh, north Coastal Andhra Pradesh, Tamilnadu & Puducherry, Kerala, South Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura from 0830 hours IST of yesterday to 0830 hours IST of today.

5 Day Rainfall Forecast (Mid-day) 21st September 2018

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

- **21 September (Day 1): Heavy to very heavy rain with extremely heavy rain** at isolated places very likely over Vidarbha, **Heavy to very heavy rain** at isolated places very likely over East Madhya Pradesh, Marathwada, Chhattisgarh, and Telangana and heavy rain at isolated places very likely over Gangetic West Bengal, Odisha, Jharkhand, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka.

Thunderstorm accompanied with hailstorm very likely at isolated places over Himachal Pradesh and Uttarakhand; **thunderstorm accompanied with lightning** very likely at isolated places over Assam & Meghalaya and East Uttar Pradesh.

Rough to very rough sea conditions are very likely over north Bay of Bengal and along & off West Bengal-Odisha coasts. Fishermen are advised not to venture into these areas during next 12 hours.

- **22 September (Day 2): Heavy to very heavy rain** at isolated places very likely over Uttarakhand, East Rajasthan, West Madhya Pradesh and Madhya Maharashtra and heavy rain at isolated places likely over West Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, West Rajasthan, Gujarat Region, Konkan & Goa and Vidarbha.

Thunderstorm accompanied with Hailstorm very likely at isolated places over Jammu & Kashmir.

- **23 September (Day 3): Heavy to very heavy rain** at a few places with **extremely heavy rain** at isolated places very likely over Himachal Pradesh; **heavy rain** at a few places with very heavy rain at isolated places very likely over Uttarakhand and Punjab and **heavy to very heavy rain** at isolated places very likely over West Uttar Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan and heavy rain at isolated places likely over Arunachal Pradesh, Jammu & Kashmir, West Rajasthan, West Madhya Pradesh and Tamilnadu.

Thunderstorm accompanied with lightning very likely at isolated places over Tamilnadu.

- **24 September (Day 4): Heavy to very heavy rain** with extremely heavy rain at isolated places likely over Uttarakhand; heavy rain at a few places with very heavy rain at isolated places likely over Himachal Pradesh; heavy to very heavy rain at isolated places likely over West Uttar Pradesh, Haryana, Chandigarh & Delhi and heavy rain at isolated likely over Arunachal Pradesh, Assam & Meghalaya, Punjab, Jammu & Kashmir, East Rajasthan and Tamilnadu.

Thunderstorm accompanied with lightning likely at isolated places over Tamilnadu and Rayalaseema.

- **25 September (Day 5): Heavy rain** at isolated places likely over Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka, Kerala and Tamilnadu.

Thunderstorm accompanied with lightning likely at isolated places over Rayalaseema.

Warning for Fishermen

Rough to very rough sea conditions are very likely over north Bay of Bengal and along & off West Bengal-Odisha coasts. Fishermen are advised not to venture into these areas during next 12 hours.

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

State-wise Advisories

Andhra Pradesh

- In Coastal Andhra Pradesh, drain out excess water from the sugarcane field and provide propping to the crop. Discard nurseries of 60 days age and go for direct wet seeding with short duration varieties viz., MTU 1156, NLR 34449. Undertake land preparation and seed procurement for sowing of rabi pulses.
- In Southern Zone of Rayalaseema, as rain and cloudy weather is forecasted, farmers who are ready to take up paddy harvestings, sowing of paddy with drum seeder and spraying of pesticides are advised to monitor the weather and postpone the works until clear weather.
- In Coastal Andhra Pradesh, in rice crop, to control blast disease, spray Isoprotholine @ 1.5 ml/litre and to control sheath blight, spray Propiconazole @ 1.0 ml or Hexaconazole @ 2.0 ml / litre on a non rainy day.
- As thunderstorm accompanied with lightning very likely over Rayalaseema on 25th September, provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds and keep cattle indoor.

Telangana

- Undertake land preparation for sowing of Rabi groundnut after current spells of heavy rain.
- In rice crop, to control Hispa, spray Quinalphos or Profenophos @ 2 ml or Chlorpyrifos @ 2.5 ml per litre of water; for stem borer, apply Cartap Hydrochloride 4G @ 8kg per acre and for leaf folder, spray Chlorantriliniprole @ 0.3 ml per liter of water. Undertake plant protection measures after current spells of rain.

Tamil Nadu

- Undertake harvesting of *kuruvai* paddy at ground level to avoid stem borer infestation in the thaladi paddy crop. Provide propping for early season and midseason planted canes against lodging with heavy wind anticipated. Irrigate the paddy field up to depth of 5 cm after disappearance of ponded water.
- To control Stem borer incidence in Samba rice fields, spray Profenophos 50 E.C. @ 400ml/acre with 200 litres of water or 6 kg/acre of Cartap hydrochloride mix with same quantity of sand. Undertake plant protection measures on non rainy day.
- As thunderstorm accompanied with lightning very likely over Tamilnadu on 23rd provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds and keep cattle indoor

Karnataka

- In North Interior Karnataka, undertake sowing of rabi jawar. Complete the harvesting of green gram. In medium black soils, continue sowing of sunflower, sorghum and undertake sowing of chickpea, safflower, sorghum + chickpea (2:1), safflower + chickpea (2:4).

- In South Interior Karnataka, continue transplanting of rice crop. Provide protective irrigation to standing crops as per requirement. Complete sowing of short duration crops ragi crop.

Arunachal Pradesh

- Undertake harvesting of early Jhum rice during clear weather. The harvested crop should be threshed and grains be sun-dried to the proper moisture level (12 % moisture level). To avoid sprouting due to rains, stage wise harvesting of mature panicles should be followed.
- To control of leaf spot/tikka disease in groundnut at pegging stage, spray Carbendazim/Mancozeb @ 1-2 ml/lit of water.. Undertake plant protection measures after current spells of rain.

Assam, Manipur, Mizoram and Tripura

- In Assam, complete the sowing black gram and green gram as early as possible. For delayed sowing up to last week of September, new recommended Black gram variety viz. Beki and Kolong may be used. Make provision of proper channel to drain out excess amount of water from the paddy field.
- In Manipur, maintain 5-8 cm water level in rice field. Provide drainage in ginger and turmeric crops. Prepare wind breaks in soybean, groundnut, rice bean and black gram fields to avoid high speed winds
- In Mizoram, transplant 2-3 seedlings of kharif rice in one place to avoid gap filling.
- In Tripura, undertake land preparation for sowing of sesamum, black gram and green gram. Avoid stagnation of water in groundnut field.

Odisha

- Drain out excess water and maintain water level upto 5cm in rice fields. Drain out excess water from maize, groundnut and vegetable fields. To protect vegetable seedlings from rainfall, cover the nursery beds with polythene sheets.
- If damage is noticed in transplanted rice due to heavy rain/ flood, then adjust the plant population by transplanting clonal tillers detaching from the old clumps, wherever possible.
- In up and medium lands, where there is no scope for revival of rice crops, go for pre-rabi crops like black gram, green gram, horsegram, sesame etc.

Jharkhand

- Continue harvesting of matured green gram/black gram in clear weather and keep harvested produce at safe places. Farmers may proceed for field preparation to cultivate Toria after harvesting of green gram/black gram.
- Continue sowing of Niger in fallow uplands with improved variety of Niger are Birsa niger-1, Birsa niger-2, Birsa niger-3, Pooja-1. Undertake nursery raising of tomato, brinjal, cabbage and cauliflower.

West Bengal

- In the Sub-Himalayan West Bengal, provide proper drainage facility in large cardamom, soybean, ginger and turmeric
- In Sub-Himalayan West Bengal, to control brown spot of rice, spray Hexaconazole @ 1ml/litre of water. For the management of cucurbitaceous fruit fly population, use pheromone traps. Undertake plant protection measures after current spells of rain.

Maharashtra

- In Konkan, maintain water level of 5-10 cm in rice field.
- In Madhya Maharashtra, in rice fields, maintain water level 5 to 10 cm. To control leaf spot and rust in groundnut, spray Mancozeb @ 25 g + Carbendazim @ 10 g per 10 litres of water after current spell of rain. Provide adequate drainage facilities in standing crops to avoid water stagnation.
- In Marathwada, provide adequate drainage facilities in standing kharif crops like soybean, pearl millet and sorghum to avoid water stagnation. Provide support to young fruit plants, staking in vegetables to prevent the crops from lodging due to strong winds.
- In West Vidarbha, provide adequate drainage facilities in standing kharif crops to avoid water stagnation. Undertake harvesting of soybean after current spell of rain. Keep the already harvested produce in safer place. Maintain water level 5 to 7 cm in rice fields

Gujarat

- In North Gujarat, undertake harvesting of bajra and green gram crops in clear weather .
- In Saurashtra & Kutch, continue picking of ripen pods of cow pea and green gram. Apply irrigation in groundnut and vegetable (flowering/fruited stage) crops.

Madhya Pradesh

- Provide adequate drainage in standing crop fields to avoid water stagnation.
- In West Madhya Pradesh, undertake harvesting of matured pods of green gram, black gram, soybean and vegetables after current spells of rain and keep the harvested produce at safer places.
- In Jhabua Hill Zone, to control of root rot & anthracnose disease in soybean spray Carbendazim+ Mencozeb @ 2 g/litre of water or Propiconazole @ 1g/litre of water after current spells of rain.
- In Satpura Plateau Zone, to control infection of sucking pest in cotton, spray Thymethoxzon @ 0.25 g/litre of water or Imidacloprid @ 0.5 ml/litre of water after current spells of rain.

Chhattisgarh

- Provide adequate drainage in standing crop fields to avoid water stagnation.
- In Bastar Plateau Zone, undertake harvesting of early varieties of rice after current spells of rain. Undertake sowing of toria.) after current spells of rain.
- For control of attack of blast in rice crop, spray Tricyclazole @ 120 g per acre and the spray should be repeated after 10-12 days as per requirement after current spells of rain.
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Jammu & Kashmir

- Maintain proper water level in rice at grain filling stage. Continue sowing of toria. , Undertake picking up of matured pods of green gram after current spells of rain. Undertake transplanting of cole crops.
- In Valley Temperate Zone, continue harvesting of matured rice crop, green cobs of maize, and pulses after current spells of rain.
- To control the attack of sheath blight in rice crop, spray Carbendazim @ 0.1% after current spells of rain.
- As thunderstorm accompanied with hailstorm very likely over Jammu & Kashmir on 22nd, thunderstorm accompanied with lightning very likely, use hail net for orchard crops to protect

from mechanical damage. Provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds and keep cattle indoor. Keep harvested produce at safer places.

Uttarakhand

- Continue sowing of toria, pea, radish, broccoli and turnip after current spells of heavy rain.
- In Hill Zone, maintain proper level of water in irrigated rice during reproductive stage. Continue sowing of pea and toria after current spells of heavy rain.
- To control leaf blight disease in maize crop, spray Mancozeb @ 2.5g/litre of water after current spells of rain.
- As thunderstorm accompanied with hailstorm very likely over Uttarakhand on 21st, use hail net for orchard crops to protect from mechanical damage. Provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds and keep cattle indoor. Keep harvested produce at safer places

Himachal Pradesh

- As thunderstorm accompanied with hailstorm very likely over Himachal Pradesh on 21st, use hail net for orchard crops to protect from mechanical damage. Provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds and keep cattle indoor. Keep harvested produce at safer places
- Provide adequate drainage in vegetable fields.
- To control attack of stem borer in rice, broadcast of Cartap 4% granules or Carbofuran 3% G @ 10 kg/acre or Chlorpyrifos 20 EC @ 2 ml/litre of water after current spells of rain.
- As rain/thundershowers likely at most/many places over Uttarakhand during the period, over Himachal Pradesh and West Uttar Pradesh from 22nd to 25th avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid water stagnation.

Punjab, Haryana & Delhi

- In Punjab, undertake picking up of matured cotton bolls after current spells of rain.
- In Haryana, undertake field preparation for sowing of mustard. Continue harvesting of timely sown bajra and undertake harvesting of green gram, black gram and picking up of matured cotton bolls after current spells of rain.
- In Delhi, continue field preparation for sowing early mustard. Undertake sowing of early pea after current spells of rain. Continue sowing of sarson saag (Pusa saag-1), radish (Versa kee rani, summer long, long chetaki), spinach (all green), coriander (pant Haritama, hybrids) after current spells of rain.
- In Punjab, for control of sheath blight disease in rice, spray Amistar Top 325 SC @ 200ml/acre dissolved in 200 litres of water after current spells of rain.
- As rain/thundershowers likely at most/many places over Haryana, Chandigarh & Delhi from 22nd to 24th avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid water stagnation
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Uttar Pradesh

- In East Uttar Pradesh, continue sowing of toria.
- In West Uttar Pradesh, continue picking up of matured cucurbits after current spells of rain.
- In Western Palin Zone, continue sowing of toria and planting of early varieties of potato after current spells of rain.
- In South Western Semi Arid Zone, there are chances of attack of stem borer in rice, broadcast Cartap 4% granules @ 10 kg/acre for effective control after current spells of rain.

Rajasthan

- In East Rajasthan, continue picking up of matured pods of cluster bean (guar), green gram, moth bean and cowpea after current spells of rain.
- In West Rajasthan, undertake harvesting of early moong, moth bean and cluster bean after current spells of rain.