



SPECIAL AGROMET-ADVISORY BULLETIN FOR UPCOMING HEAVY TO VERY HEAVY RAINFALL CONDITION

Subject: Depression over eastcentral Bay of Bengal (Pre-Cyclone Watch for Odisha and West Bengal coasts)

The depression over Eastcentral Bay of Bengal moved west-northwestwards with a speed of 6 kmph during past 3 hours and lay centred at 0830 hrs IST of today, the 22nd October, over the same region near latitude 15.5° N and longitude 91.0°E, about 700 km southeast of Paradip (Odisha), 750 km south-southeast of Sagar Island (West Bengal) and 730 km south-southeast of Khepupara (Bangladesh).

It is very likely to move west-northwestwards and intensify into a cyclonic storm by 23rd October, 2024 over eastcentral Bay of Bengal. Thereafter, continuing to move northwestwards, it is very likely to intensify into a severe cyclonic storm over northwest Bay of Bengal by morning of 24th and cross north Odisha and West Bengal coasts between Puri and Sagar Island during night of 24th and morning of 25th October, 2024 as a severe Cyclonic Storm with a wind speed of 100-110 kmph gusting 120 kmph.

Details Forecast and warning as follows:

Rainfall Forecast for Cuttack District:

Day-1(Tuesday 8.30 AM to Wednesday 8.30 AM): Dry weather is forecasted for all blocks of Cuttack district.

Day-2(Wednesday 8.30 AM to Thursday 8.30 AM): Light to moderate with isolated heavy rainfall & thunderstorm with lightning is likely occur at many places of Cuttack district.

Day-3(Thursday 8.30 AM to Friday 8.30 AM): Heavy to very heavy with isolated extremely heavy rainfall & thunderstorm with lightning is likely occur at many places of Cuttack district.

Day-4(Friday 8.30 AM to Saturday 8.30 AM): Moderate to heavy with isolated very heavy rainfall & thunderstorm with lightning is likely occur at many places of Cuttack district.

Day-5(Saturday 8.30 AM to Sunday 8.30 AM): Light to moderate with isolated heavy rainfall & thunderstorm with lightning is likely occur at many places of Cuttack district.

Wind warnings:

Squally wind speed reaching 40-50 gusting to 60 kmph is very likely to commence from 23rd Oct evening. It would gradually increase becoming gale wind speed reaching 100-110 kmph gusting to 120 kmph from 24th Oct evening till 25th Oct morning and decrease gradually thereafter.







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Sp-Bulletin No.-04
 Date- 22/10/2024

Impact based Agro-met advisories

District	Crop/vegetables /fruits	Stage	Likely Impact on crop/vegetables/fruits	Agromet-Advisory
Cuttack	Kharif Rice	Dough, Maturity	<ul style="list-style-type: none"> Lodging due to water logging;  <ul style="list-style-type: none"> viviparous germination of seeds 	<ul style="list-style-type: none"> Harvest the crop before Wednesday and keep the harvested produce at safer place (If the crop is at 85% of maturity stage). Drain out excess water in standing rice crop by making alleys (Pahi). Field drying of harvested paddy should be strictly avoided. Rather the harvested unthreshed crop should be stacked and covered till clear weather.
	Kharif Rice	Reproductive stage	<ul style="list-style-type: none"> Water logging situation may lead to different disease and pest infestation Disease infestation may occur like Sheath blight, bacterial leaf blight, stem rot, blast. Pest infestation may occur like Gall mildge, BPH, leaf folder, swarming caterpillar 	<ul style="list-style-type: none"> Drain out excess water in standing rice crop by making alleys (Pahi). Maintain 5-10 cm water level during reproductive Stage. Take proper plant protection measure after receding of heavy rainfall. Forecasted cloudy and humid weather favors incidence of blast disease in rice to control disease spray Tebuconazole 50%+ Trifloxystrobin 25% @ 0.4g/litre or, Carbendazim 50 WP @ 2g/litre of water. Due to water logging situation in Cuttack district as well as in the blocks sheath blight will be found in early transplanted rice then apply carbendazim 2g/ltr or propiconazole 1ml/ltr of water. In case of



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				<p>Foot rot, spray the basal portion of the crop with 0.4% mancozeb or 0.2% carbendazim after drying the weather.</p> <ul style="list-style-type: none">• To control bacterial leaf blight spray Plantomycin @ 1 g + Copper oxychloride @ 2 g/litre of water when sky becomes clear.• If Brown Plant Hopper (BPH) infestation will observe in rice, go for alternate wetting and drying. Make a gape after 8 to 10 rows for entry of sunlight and air. Whenever the number of hoppers/hill reaches 5-10, spray Pymetrozine 50% WG @ 120 g or Buprofezin 25% SC @ 330 ml or Imidacloprid 17.8% SL @ 50 ml per acre in the base of the plant. Before spraying remove water from the field.• In Gall midge affected due to continuous cloudy and rainy weather in late transplanted rice apply Thiamethoxam 25% WG @ 40g/acre or Fipronil 5% SC @ 400ml/acre or Chlorpyrifos 20EC @ 500ml/acre to manage the pest.• If swarming caterpillar observed in field, spray Chlorpyrifos 20% EC @ 2.5 ml/litre of water sky becomes clear.
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			<ul style="list-style-type: none"> There is chance for leaf folder infestation due to the prevalence of cloudy weather. If observe in field then spray Chlorantraniliprole 18.5% SC @ 3 ml/10 litre of water
Sugarcane	Grand growth	<ul style="list-style-type: none"> water logging due to heavy rainfall  <ul style="list-style-type: none"> Red rot , wilt disease due to high soil moisture 	<ul style="list-style-type: none"> Maintain proper drainage in the field. Avoid irrigation and any kind of chemical spray. Wrapping and propping should be done. For Red rot and wilt disease, spray the crop with Mancozeb 0.3%or carbendazim 0.1% or Azoxystrobin 18.2%SC/ Difenoconazole 11.45SC @ 1ml per liter water in dry days.
Maize	Tasseling to silking stage	<ul style="list-style-type: none"> Water logging due to heavy rainfall  <ul style="list-style-type: none"> Less dry matter/yield Reduction in plant canopy height Stem rot, Banded leaf blight, fall army worm infestation due to 	<ul style="list-style-type: none"> Drain out excess water from the field. Do not keep the stagnant water. Reduce nitrogen application and apply recommended dose of P and K as basal to increase water logging resistance. To control fall armyworm in maize erect 4 pheromone traps /acre and spray 5 ml of 1500ppmneem oil /1 lit water. If more severe incidence observed spray



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			rain	<p>Emamectin benzoate @ 0.5 g / lit of water.</p> <ul style="list-style-type: none"> Forecasted rainy and humid weather favors infestation of bandedleaf blight, to control this spray Validamycin 3.0% SL or Hexaconazole 5.0% EC 400ml/200ltr water for one acre. Standing water promotes bacterial stalk rot. To prevent this disease apply Copper oxychloride 50% WP @ 3 g/litre of water.
Rabi crops (Pulses : Green gram, Black gram, Oilseed crop : Groundnut and Mustard)	Early Vegetative/ Cont. Sowing	<ul style="list-style-type: none"> Seed displacement poor germination due to water logging 	<ul style="list-style-type: none"> Postpone sowing of the rabi crops. Avoid intercultural operations, spraying and fertilization and irrigation activities after Friday in rabi crops. Maintain proper drainage in the field. Keep the field in vapsa condition. 	
Vegetables (Carrot, raddish)	Sowing/Seedling	<ul style="list-style-type: none"> Seed displacement poor germination due to water logging Seedling damage 	<ul style="list-style-type: none"> Open drain and channels in vegetable fields to facilitate drainage of excess water. Postpone sowing. 	



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<p>Vegetables (Cauliflower, Broccoli, Cabbage, Red Cabbage)</p>	<p>Vegetative to Curd development/Vegetative</p>	<ul style="list-style-type: none"> • Discolouration and splitting, rotting • Seedling damage   	<ul style="list-style-type: none"> • Harvest the vegetables if heads are ready to use. • Open drain and channels in vegetable fields to facilitate drainage of excess water. • Winter season vegetable seedlings should be covered with low cost poly tunnel.
<p>Vegetables(Potato, Onion), Coriander</p>	<p>Sowing/Seedling</p>	<ul style="list-style-type: none"> • Seed displacement • poor germination due to water logging • Seedling damage  	<ul style="list-style-type: none"> • Arrange for drainage facility and avoid sowing during spells of heavy rainfall. • Keep the field in vapsa condition • Winter season vegetable seedlings should be covered with low cost poly tunnel.
<p>Vegetables(Brinjal, Tomato, Cilli)</p>	<p>Vegetative to harvesting</p>	<ul style="list-style-type: none"> • Lodging • Fruit damage/Flower drop <ul style="list-style-type: none"> • wilting 	<ul style="list-style-type: none"> • Pick matured fruits as soon as earlier and send to market . • Cover the vegetable nursery with white polythene. • Open drain and channels in vegetable fields to facilitate drainage of excess water. • Provide bamboo or wooden stake to prevent lodging of plants.



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	Vegetables (Cow pea, Ridgegourd)	Harvesting	<ul style="list-style-type: none"> • Lodging • Pod/Fruit damage 	<ul style="list-style-type: none"> • Pick matured pods/fruits as soon as earlier and send to market. • Provide bamboo or wooden stake to prevent lodging of plants.
	Fruits (Banana, Papaya, Lemon)	Vegetative to Fruiting	<ul style="list-style-type: none"> • Lodging • Fruit damage 	<ul style="list-style-type: none"> • Provide support to young fruit plants like Papaya and Banana. • Open drain and channels in fruit fields to facilitate drainage of excess water. • Pick matured fruits as soon as earlier and send to market.
	Livestocks			<ul style="list-style-type: none"> • Keep the livestock indoors during rainfall if possible keep them loose inside the shed. • Keep feed for 3-5 days, in case of any emergency. • Repair the sheds for loose structure and rainfall. • Keep fodder at safe place to avoid spoilage from rainfall.



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