



## **SPECIAL AGROMET-ADVISORY BULLETIN FOR UPCOMING HEAVY TO VERY HEAVY RAINFALL CONDITION DUE TO CYCLONIC STORM 'JAWAD'**

**Sub: Deep Depression intensified into Cyclonic Storm 'JAWAD' over westcentral Bay of Bengal: Cyclone Alert for north Andhra Pradesh and Odisha coasts – Yellow Message.**

The Deep Depression over westcentral Bay of Bengal moved north-northwestwards with a speed of 25 kmph during past 06 hours, intensified further into Cyclonic Storm 'JAWAD' (Pronounced as JOWAD) and lay centered at 1130 hrs IST of today, the 3rd December 2021, over westcentral of Bengal near Lat. 14.5°N and Long. 85.5°E, about 420 km south-southeast of Vishakhapatnam (Andhra Pradesh), 530 km south-southeast of Gopalpur (Odisha) and 650 km south-southwest of Paradip (Odisha).

It is likely to move northwestwards, intensify further and reach west-central Bay of Bengal off north Andhra Pradesh – south Odisha coasts by tomorrow, the 4th December morning. **Thereafter it is likely to recurve north-northeastwards and move along Odisha coast reaching near Puri around 5th December noon. Subsequently it is likely to continue to move north-northeastwards along coastal Odisha towards West Bengal coast.**

**Details Forecast and warning as follows:**

### **Rainfall Forecast for Cuttack District:**

**Day-1(Friday 8.30 AM to Saturday 8.30 AM):** Light to moderate rain likely occur at many blocks and isolated heavy rainfall likely occur at Niali block of Cuttack district today.

**Day-2(Saturday 8.30 AM to Sunday 8.30 AM):** Moderate rainfall very likely occurs at western blocks and Heavy with isolated very heavy rainfall very likely to occur at other blocks of Cuttack district on Saturday.

**Day-3(Sunday 8.30 AM to Monday 8.30 AM):** Moderate with isolated heavy rainfall very likely occur at western blocks and Heavy with isolated very heavy rainfall very likely to occur at other blocks of Cuttack district on Sunday.

**Day-4(Monday 8.30 AM to Tuesday 8.30 AM):** Very light rainfall likely occur at isolated(at one or two places) places of Cuttack district.

**Day-5(Tuesday 8.30 AM to Wednesday 8.30 AM):** Dry weather will likely prevail over Cuttack district.

### **Wind warnings for Cuttack District:**

**Day-1(Friday 8.30 AM to Saturday 8.30 AM):** Squally wind speed reaching 30-40kmph gusting to 65 kmph likely to prevail over Cuttack district.

**Day-2(Saturday 8.30 AM to Sunday 8.30 AM):** Squally wind speed reaching 60-70kmph gusting to 80 kmph likely to prevail over Cuttack district.

**Day-3(Sunday 8.30 AM to Monday 8.30 AM):** Squally wind speed reaching 55-65kmph gusting to 75 kmph likely to prevail over Cuttack district.








**GRAMIN KRISHI MAUSAM SEWA**  
**INDIA METEOROLOGICAL DEPARTMENT**  
**DISTRICT AGROMET UNIT**  
**KRISHI VIGYAN KENDRA CUTTACK**  
 (A Unit of ICAR-National Rice Research Institute)  
 Email: kvkcuttack@gmail.com/damukvkcuttack@gmail.com



Sp-Bulletin No.-09  
 Date- 03/12/2021

### Impact based Agro-met advisories before rain

District	Crop/vegetables /fruits	Stage	Likely Impact on crop/vegetables/fruits	Before Agromet-Advisory
Cuttack	Rice	Dough, Maturity	<ul style="list-style-type: none"> <li>Lodging due to water logging;</li> </ul>  <ul style="list-style-type: none"> <li>viviparous germination of seeds</li> </ul> 	<ul style="list-style-type: none"> <li>Harvest the crop before Friday and keep the harvested produce at safer place.</li> <li>Drain out excess water in standing rice crop by making alleys (Pahi).</li> <li>Field drying of harvested paddy should be strictly avoided. Rather the harvested unthreshed crop should be stacked and covered till clear weather.</li> </ul>
	Sugarcane	Maturity	<ul style="list-style-type: none"> <li>Deformation and lodging due to heavy rainfall and water logging</li> </ul> 	<ul style="list-style-type: none"> <li>Maintain proper drainage in the field.</li> <li>Avoid irrigation and any kind of chemical spray.</li> <li>wrapping and propping should be done.</li> </ul>

Dr Sujata Sethy  
 (Nodal officer)



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Debasish Jena  
 SMS (Agrometeorology)  
 Contact No-9861445080/7008453427



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**INDIA METEOROLOGICAL DEPARTMENT**  
**DISTRICT AGROMET UNIT**  
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	Rabi crops ( <b>Pulses</b> : Green gram, Black gram, <b>Oilseed crop</b> : Groundnut and Mustard)	Early Vegetative/ Cont. Sowing	<ul style="list-style-type: none"> <li>Seed displacement</li> <li>poor germination due to water logging</li> </ul>	<ul style="list-style-type: none"> <li>Postpone sowing of the rabi crops.</li> <li>Avoid intercultural operations, spraying and fertilization and irrigation activities after Friday in rabi crops.</li> <li>Maintain proper drainage in the field.</li> <li>Keep the field in vapsa condition.</li> </ul>
	Vegetables ( <b>Cauliflower, Broccoli, Cabbage, Red Cabbage</b> )	Vegetative to Curd deveopment/V egetative	<ul style="list-style-type: none"> <li>Discolouration and splitting ,rotting</li> <li>Seedling damage</li> </ul>   	<ul style="list-style-type: none"> <li>Harvest the vegetables if heads are ready to use.</li> <li>Open drain and channels in vegetable fields to facilitate drainage of excess water.</li> <li>Winter season vegetable seedlings should be covered with low cost poly tunnel.</li> </ul>
	Vegetables( <b>Potato, Onion</b> ) , <b>Coriander</b>	Sowing/Seedling	<ul style="list-style-type: none"> <li>Seed displacement</li> <li>poor germination due to water logging</li> <li>Seedling damage</li> </ul>  	<ul style="list-style-type: none"> <li>Arrange for drainage facility and avoid sowing during spells of heavy rainfall.</li> <li>Keep the field in vapsa condition</li> <li>Winter season vegetable seedlings should be covered with low cost poly tunnel.</li> </ul>





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	Vegetables( <b>Brinjal, Tomato, Cilli</b> )	Vegetative to harvesting	<ul style="list-style-type: none"> <li>• Lodging</li> <li>• Fruit damage/Flower drop</li> <li>• wilting</li> </ul> 	<ul style="list-style-type: none"> <li>• Pick matured fruits as soon as earlier and send to market .</li> <li>• Cover the vegetable nursery with white polythene.</li> <li>• Open drain and channels in vegetable fields to facilitate drainage of excess water.</li> <li>• Provide bamboo or wooden stake to prevent lodging of plants.</li> </ul>
	Vegetables ( <b>Carrot, raddish</b> )	Root formation stage	<ul style="list-style-type: none"> <li>• Roting</li> </ul> 	<ul style="list-style-type: none"> <li>• Open drain and channels in vegetable fields to facilitate drainage of excess water.</li> </ul>
	Vegetables ( <b>Cow pea, Ridgegourd</b> )	Harvesting	<ul style="list-style-type: none"> <li>• Lodging</li> <li>• Pod/Fruit damage</li> </ul>	<ul style="list-style-type: none"> <li>• Pick matured pods/fruits as soon as earlier and send to market.</li> <li>• Provide bamboo or wooden stake to prevent lodging of plants.</li> </ul>







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

### Impact based Agro-met advisories after rain

District	Crop/vegetables /fruits	Stage	Likely Impact on crop/vegetables/fruits	After rain Agromet-Advisory
Cuttack	Rice	Dough, Maturity	<ul style="list-style-type: none"> <li>• Water logging</li> <li>• Ear head Caterpillar</li> </ul>  <ul style="list-style-type: none"> <li>• Stored grain pest</li> </ul> 	<ul style="list-style-type: none"> <li>• Drain out excess water in standing rice crop by making alleys (Pahi).</li> <li>• If stored grain are affected by rain, they should be taken out and dried to safe storage moisture (12%).</li> <li>• Due to increased moisture in grain, it is expected that infestation of <b>stored grain pest</b> may occur, hence they have to be fumigated with aluminium phosphide (3 tablet/ton of grain).</li> <li>• To manage <b>ear head</b></li> </ul>

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				<p><b>caterpillar</b> in <b>rice</b> after rain, spray Lambda-cyhalothrin 400ml/200 liter water for one acre.</p>
<p>Rabi crops (<b>Pulses</b> : Green gram, Black gram,<b>Oilseed crop</b>: Groundnut and Mustard)</p>	<p>Early Vegetative/ Cont. Sowing</p>	<ul style="list-style-type: none"> <li>Water logging</li> <li>Wilting in Pulses</li> </ul>  <ul style="list-style-type: none"> <li>Stem/root rot</li> </ul> 	<ul style="list-style-type: none"> <li>Continue sowing of the rabi crops by utilization of rain water.</li> <li>Continue intercultural operations, spraying and fertilization and irrigation activities after Sunday in rabi crops.</li> <li>Drainout excess water from the field.</li> <li>To control <b>wilting</b> in <b>pulses</b> after rain, spray Validamycin 2g/litr water.</li> <li>To avoid <b>stem rot</b> in <b>groundnut</b> after rain, apply hexaconazole 5% 1.5 ml/ltr of water.</li> </ul>	
<p>Vegetables (<b>Cauliflower, Broccoli, Cabbage, Red Cabbage</b>)</p>	<p>Seedling/Vegetative to Curd development/Vegetative</p>	<ul style="list-style-type: none"> <li>Roting</li> </ul>  <ul style="list-style-type: none"> <li>Damping off</li> </ul> 	<ul style="list-style-type: none"> <li>Drain out excess water from the field.</li> <li>To control <b>roting</b> in <b>Cauliflower or Cabbage</b> spray, Metalaxyl+Mancozeb@2 g with 0.2 g Streptocyclin per liter water.</li> <li>To control <b>damping off</b> Spray Metalaxyl+Mancozeb@2g/litre or Copper oxychloride@2.5g/litre of water to control it.</li> <li>To control <b>tobacco caterpillar</b>, spray Emamectin benzoate @80 g or Lambda-cyhalothrin @ 300ml in 200 liter water for</li> </ul>	

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			<ul style="list-style-type: none"> <li>Tobacco caterpillar</li> </ul> 	one acre.
	Vegetables( <b>Potato, Onion</b> ), <b>Coriander</b>	Sowing/Seedling	<ul style="list-style-type: none"> <li>Seedling Rot</li> </ul>  	<ul style="list-style-type: none"> <li>Drain out excess water from the field.</li> <li><b>Seedling rot</b> is likely to appear in vegetable nursery. Spray Metalyxyl+Mancozeb/Carboxin+Thiram@2g/litre or Copper oxychloride@2.5g/litre of water to control it</li> </ul>
	Vegetables( <b>Brinjal, Tomato, Cilli</b> )	Vegetative to harvesting	<ul style="list-style-type: none"> <li>wilting</li> </ul>  <ul style="list-style-type: none"> <li>Fruit rot</li> </ul> 	<ul style="list-style-type: none"> <li>Drain out excess water from the field.</li> <li>Due to rain, <b>wilting</b> of plant may appear in early planted <b>vegetable</b> crops. To control it spray 1.5g Streptocycline with 25g Copper oxychloride per 10 litres of water.</li> <li>Due to rain, Chances of <b>fruit rot</b> infestation in <b>chilli and brinjal</b>, if observe spray Carbendazim 50% WP @ 2 g/litre of water or Copper oxychloride 50% WP @ 3 g/litre of water. If necessary spray second and third round at 15 days interval.</li> </ul>





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Vegetables (Ridgegourd)	Harvesting	<ul style="list-style-type: none"> <li>Downy mildew </li> <li>Leaf blight </li> </ul>	<ul style="list-style-type: none"> <li>Drain out excess water from the field.</li> <li>For <b>leaf blight, downy mildew</b> problem in ridge gourd apply 400 gram (Metalaxyl + Mancozeb) or 300 gram Chlorothalonil or 160 gram Azoxystrobin in 200 liter water per acre.</li> </ul>
Fruits (Banana, Papaya, Lemon)	Vegetative to Fruiting	<ul style="list-style-type: none"> <li>Rhizome rot </li> <li>Crown rot </li> </ul>	<ul style="list-style-type: none"> <li>Drain out excess water from the field.</li> <li>After rain due to water logging there may be increase in the infestation of <b>phytopthera crown rot or foot rot</b> in papaya, so farmers should drain out excess water and drench the soil with fungicide like thiophanate methyl 70%wp 2-4g/ltr of water.</li> <li>If <b>rhizome rot</b> will be noticed in the field, drench the solution of Copper oxy chloride at 3g per L of water.</li> </ul>
Livestocks			Make necessary arrangement of vaccination for the animals.





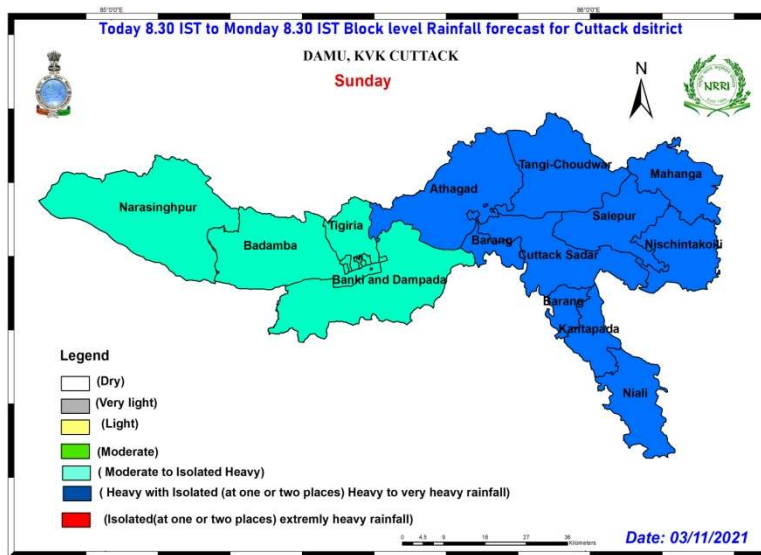
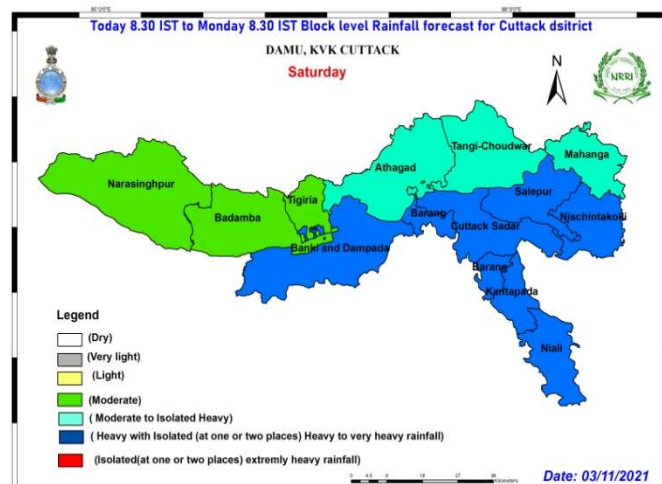
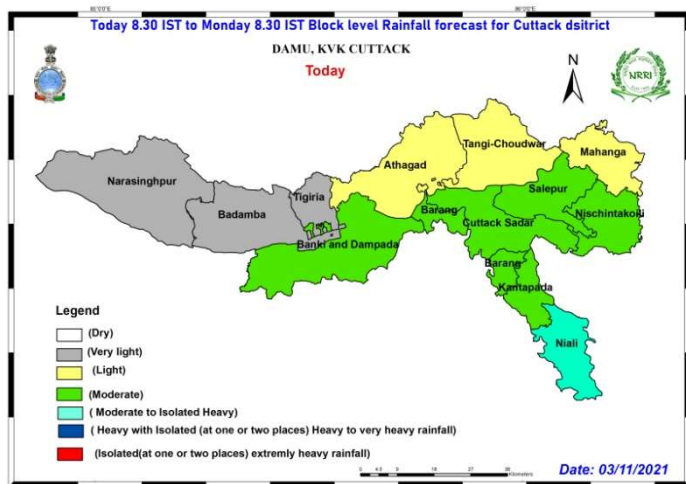


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**Block wise Rainfall Forecast Maps from Today to Sunday**



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