

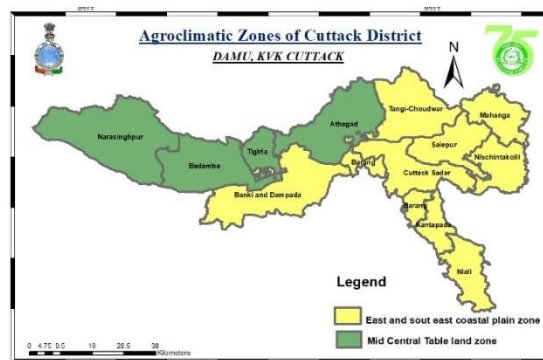


**GRAMIN KRISHI MAUSAM SEWA**  
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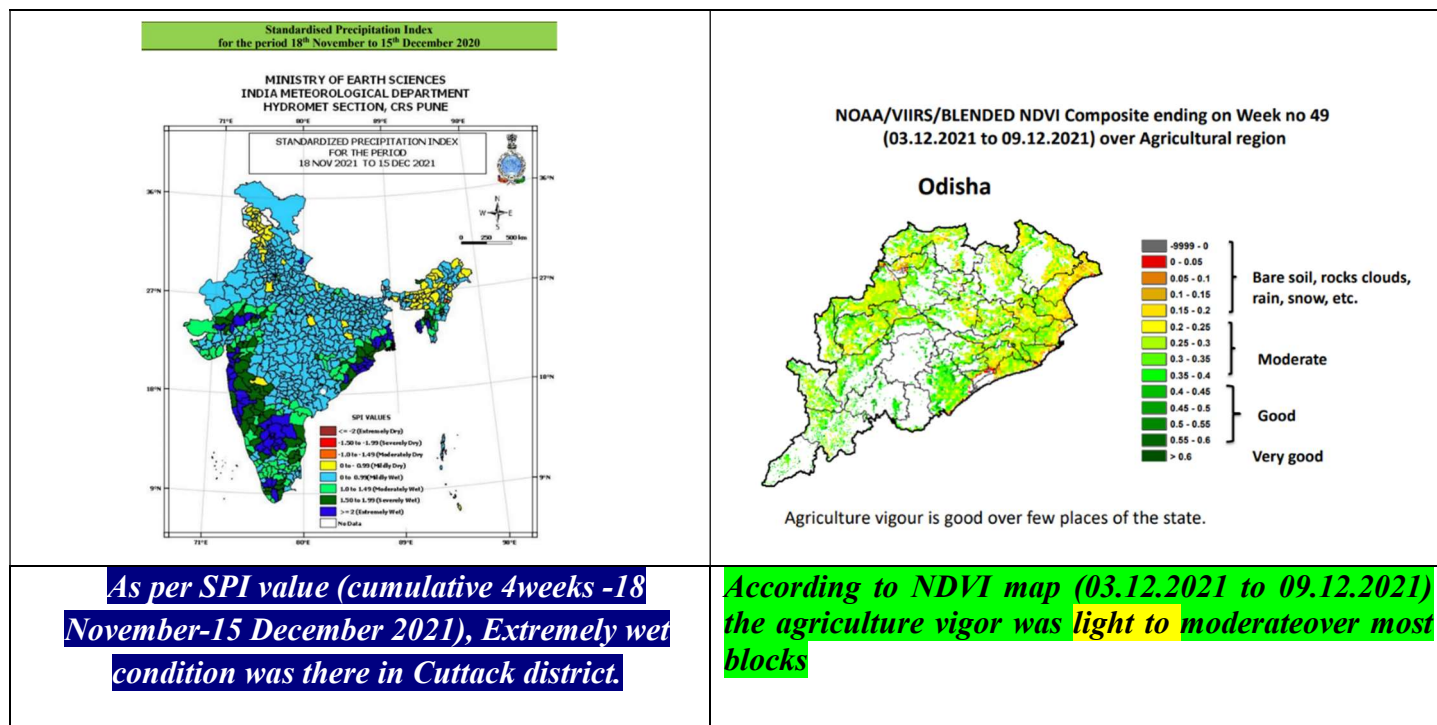


**Bulletin No.-254**  
**Date- 17/12/2021**

## AGROCLIMATIC ZONES OF CUTTACK DISTRICT:



## STANDARD PRECIPITATION INDEX AND NDVI MAP



<b>LEGEND (Medium range block level rainfall forecast)</b>		
	<b>No Rainfall</b>	<b>00 mm</b>
	<b>Very light rainfall</b>	<b>01-05 mm</b>
	<b>Light rainfall</b>	<b>06-10 mm</b>
	<b>Light to moderate rainfall</b>	<b>11-30 mm</b>
	<b>Moderate to heavy rainfall</b>	<b>31-65 mm</b>
	<b>Heavy to very heavy rainfall</b>	<b>66-115 mm</b>
	<b>Extremely heavy rainfall</b>	<b>&gt;116 mm</b>

**Dr Sujata Sethy**  
(Nodal officer)



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**Debasish Jena**  
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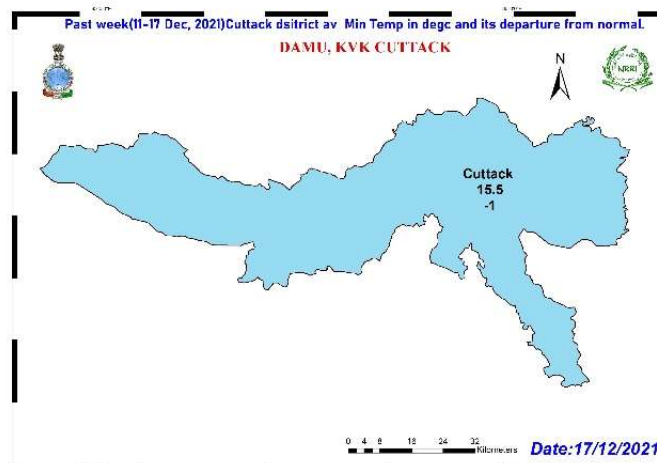
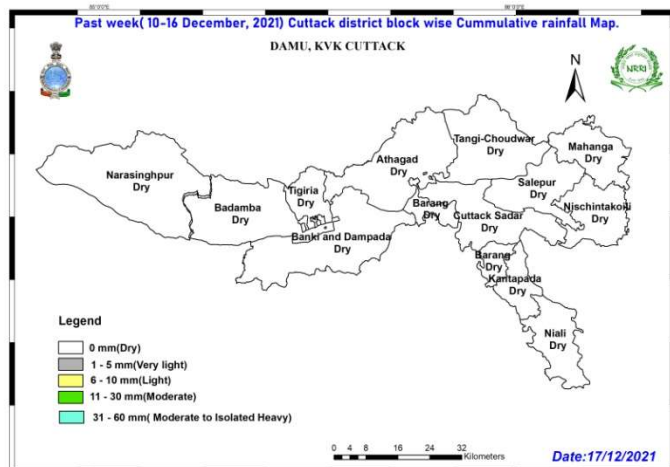


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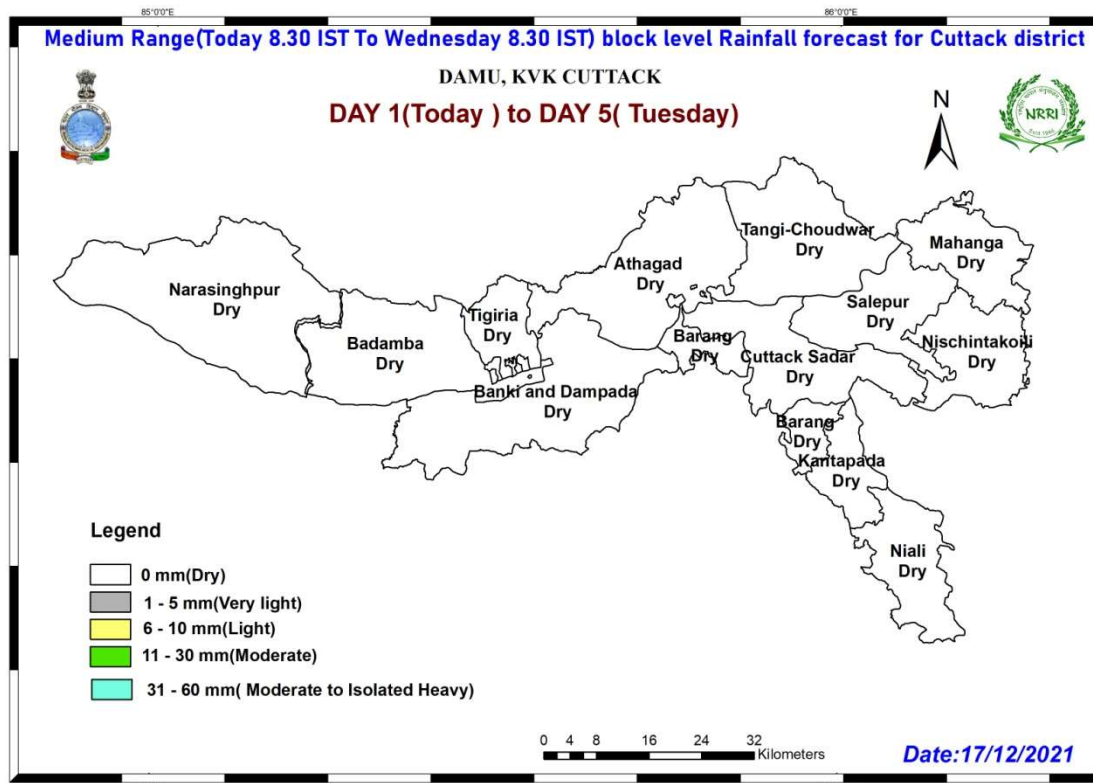


Bulletin No.-254  
Date- 17/12/2021

**Past week (10-16 Dec) cumulative rainfall and (11-17 Dec) average minimum temperature and its departure from normal for Cuttack district**



**Medium range (Today (8.30IST) to Wednesday (8.30IST)) Rainfall (mm) forecast for Cuttack district**



Dr Sujata Sethy  
(Nodal officer)



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**Bulletin No.-254**  
**Date- 17/12/2021**

Met Sub division	Extended range outlook for subsequent 1 week (6 <sup>th</sup> to 12 <sup>th</sup> days) (22-28 December 2021)		
Odisha	<i>Parameter</i>	<i>Departure (%)</i>	<i>Category</i>
	Rainfall	-50.53	Below Normal
	<i>Parameter</i>	<i>Anomaly</i>	<i>Category</i>
	Maximum temperature	-0.71	Normal
	Minimum temperature	-2.79	Below Normal

**General Agromet Advisory:-** There will be below normal rainfall in subsequent week after 5 days (22-28 Dec 2021) in Odisha condition, and there will be dry weather is forecasted for upcoming 5 days. Farmers should go for harvesting and threshing operation of paddy in upcoming days. Farmers should go for sowing of rabi vegetables and crops by utilization of rain water in this week. They should go for irrigation activities based upon soil moisture status of their field and should cover the vegetable seedlings with polythine cover in night in the subsequent week as there will be below normal temperature condition.

Dr Sujata Sethy  
 (Nodal officer)



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Bulletin No.-254

Date- 17/12/2021

**Weather (Past and Forecasted) based Disease and pest in Major Crops and vegetables**

Sl No	Crop	Stage and condition of the crop	Anticipated Disease and pest	
1	Pulses (Green gram and black gram)	Vegetative stage		Aphid
1	Mustard	Vegetative stage		Aphid
				Saw fly
2	Rabi Groundnut	Vegetative stage		Leaf Miner
3	Vegetables (Tomato, Chilli, Brinjal)	Vegetative to fruiting		Thrips
				Mites
				Chili Aphid
4	Brinjal	Fruiting		Fruit and shoot borer
5	Tomato	Vegetative		White fly
		Fruiting		Late blight
6	Potato	Sprouting/Vegetative stage		Cut worm and leaf eating insect
	Cole crops (Cauliflower and cabbage)	Vegetative to fruiting		Leaf eating caterpillar
7				Aphid
				Fruit borer
				Diamond back moth

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(Nodal officer)



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**Bulletin No.-254**  
**Date- 17/12/2021**

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**AGROMET ADVISORY BULLETIN FOR ATHAGAD**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory::** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-26°C and night temperature will be 9-10°C for upcoming 5 days. Maximum and minimum relative humidity will be 40-68% and 21-37% respectively. There will be mainly clear sky for next 5days.

Block	Athagad(VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall (mm)	0	0	0	0	0
T-Max (°C)	25	25	25	26	25
T-Min (°C)	10	10	9	9	9
Cloud Cover (octa)	1	0	0	0	0
RH Max (%)	60	68	66	65	40
RH Min (%)	30	35	37	37	21
Wind Speed (kmph)	6	7	6	5	6
Wind Direction (deg)	360	15	68	343	326

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamidiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- **Vegetables:**
- **Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- **Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing of should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lt of water against the attack of cut worm and leaf eating insect.

- **Tomato:**  
At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.

- **Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.

- **Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.  
At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

**Dr Sujata Sethy**  
**(Nodal officer)**



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**Debasish Jena**

**SMS (Agrometeorology)**

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**Bulletin No.-254**  
**Date- 17/12/2021**

**AGROMET ADVISORY BULLETIN FOR BADAMBA**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-26°C and night temperature will be 9-10°C for upcoming 5 days. Maximum and minimum relative humidity will be 38-74% and 20-37% respectively. There will be mainly clear sky for next 5 days.

Block	Badamba (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	25	25	25	26	25
T-Min(°C)	10	10	10	9	9
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	60	68	74	55	38
RH Min (%)	32	36	37	34	20
Wind Speed (Kmph)	6	6	4	5	6
Wind Direction (deg)	349	15	19	333	326

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing up should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- Tomato:**
- At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may be reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.
- At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

**Dr Sujata Sethy**  
(Nodal officer)



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Bulletin No.-254

Date- 17/12/2021

**AGROMET ADVISORY BULLETIN FOR BANKI**

**District Past week average weather condition**

The district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 26-27°C and night temperature will be 10-11°C for upcoming 5 days. Maximum and minimum relative humidity will be 36-70% and 21-36% respectively. There will be mainly clear sky for next 5 days.

Block	Banki (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	26	26	26	27
T-Min(°C)	11	11	10	10	10
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	58	67	70	61	36
RH Min (%)	30	35	36	35	21
Wind Speed (Kmph)	6	7	5	5	6
Wind Direction (deg)	351	15	30	340	326

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

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- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.
- At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

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(Nodal officer)



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**Bulletin No.-254**  
**Date- 17/12/2021**

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**AGROMET ADVISORY BULLETIN FOR BANKI-DAMPARA**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather Advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 26-27°C and night temperature will be 10-11°C for upcoming 5 days. Maximum and minimum relative humidity will be 35-69% and 21-36% respectively. There will be mainly clear sky for next 5 days.

Block	Banki-Dampara (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	26	26	26	27
T-Min(°C)	11	11	10	10	10
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	58	67	69	62	35
RH Min (%)	30	35	36	35	21
Wind Speed (Kmph)	6	7	5	5	6
Wind Direction (deg)	345	15	45	340	326

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing of should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lt of water against the attack of cut worm and leaf eating insect.
- Tomato:**
- At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may be reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.
- At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

**Dr Sujata Sethy**  
**(Nodal officer)**



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**Debasish Jena**

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**Contact No-9861445080/7008453427**





**GRAMIN KRISHIMAUSAM 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



**Bulletin No.-254**  
**Date- 17/12/2021**

**AGROMET ADVISORY BULLETIN FOR BARANGA**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 26-27°C and night temperature will be 10-11°C for upcoming 5 days. Maximum and minimum relative humidity will be 38-66% and 23-36% respectively. There will be mainly clear sky for next 5 days.

Block	Baranga (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	26	26	26	27
T-Min(°C)	11	11	10	10	10
Cloud Cover	1	0	0	0	0
RH Max (%)	55	66	62	61	38
RH Min (%)	29	33	36	35	23
Wind Speed (Kmph)	7	7	7	5	7
Wind Direction (deg)	360	45	25	345	334

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- **Vegetables:**
- **Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- **Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing of should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- **Tomato:**  
At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may be reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- **Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- **Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.  
At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this spray Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

**Dr Sujata Sethy**  
**(Nodal officer)**



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**Debasish Jena**

**SMS (Agrometeorology)**

**Contact No-9861445080/7008453427**



# GRAMIN KRISHIMAUSAM 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



Bulletin No.-254

Date- 17/12/2021

## AGROMET ADVISORY BULLETIN FOR CUTTACK SADAR

### District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

### Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 26°C and night temperature will be 10-11°C for upcoming 5 days. Maximum and minimum relative humidity will be 43-66% and 23-36% respectively. There will be mainly clear sky for next 5 days.

Block	Cuttack sadar (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	26	26	26	26
T-Min(°C)	11	11	10	10	10
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	58	66	60	62	43
RH Min (%)	29	34	36	36	23
Wind Speed (Kmph)	7	7	6	6	7
Wind Direction (deg)	360	18	45	345	333

### Agromet Advisory

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing of should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- Tomato:**  
At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may be reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.  
At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this spray Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

### Animal husbandry:

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

Dr Sujata Sethy  
(Nodal officer)



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**GRAMIN KRISHIMAUSAM SEWA**  
**INDIA METEOROLOGICAL DEPARTMENT**  
**DISTRICT AGROMET UNIT**  
**KRISHI VIGYAN KENDRA CUTTACK**  
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Email: kvkcuttack@gmail.com/damukvkcuttack@gmail.com



**Bulletin No.-254**  
**Date- 17/12/2021**

**AGROMET ADVISORY BULLETIN FOR KANTAPADA**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-28°C and night temperature will be 12-13°C for upcoming 5 days. Maximum and minimum relative humidity will be 49-66% and 27-38% respectively. There will be mainly clear sky for next 5 days.

Block	Kantapada (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	27	28	26	25	26
T-Min(°C)	13	13	13	12	12
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	54	66	64	60	49
RH Min (%)	29	34	38	33	27
Wind Speed (Kmph)	8	9	9	6	6
Wind Direction (deg)	345	23	28	27	334

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing up should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- Tomato:**  
At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.  
At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

**Dr Sujata Sethy**  
(Nodal officer)



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# GRAMIN KRISHIMAUSAM 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

AGROMET ADVISORY BULLETIN FOR MAHANGA



Bulletin No.-254

Date- 17/12/2021

## District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be and it will be 25-28°C and night temperature will be 12-13°C for upcoming 5 days. Maximum and minimum relative humidity will be 52-66% and 26-38% respectively. There will be mainly clear sky for next 5 days.

Block	Mahanga (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	27	28	27	25	26
T-Min(°C)	13	13	12	12	12
Cloud Cover(octal)	1	0	0	0	0
RH Max (%)	57	66	56	52	56
RH Min (%)	29	35	38	35	26
Wind Speed (Kmph)	7	8	8	6	6
Wind Direction (deg)	360	23	36	25	315

## Agromet Advisory

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing up should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- Tomato:**  
At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.  
At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation . Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

## Animal husbandry:

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

Dr Sujata Sethy  
(Nodal officer)



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Debasish Jena

SMS (Agrometeorology)

Contact No-9861445080/7008453427



# GRAMIN KRISHIMAUSAM 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



Bulletin No.-254

Date- 17/12/2021

## AGROMET ADVISORY BULLETIN FOR NARASINGHPUR

### District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

### Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-27°C and night temperature will be 09-10°C for upcoming 5 days. Maximum and minimum relative humidity will be 37-84% and 19-37% respectively. There will be mainly clear sky for next 5 days.

Block	Narasinghpur (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	27	27	26	25
T-Min(°C)	10	10	9	9	9
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	62	71	84	45	37
RH Min (%)	33	37	36	29	19
Wind Speed (Kmph)	6	5	3	5	5
Wind Direction (deg)	349	349	349	328	302

### Agromet Advisory

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing of should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- Tomato:**
- At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.
- At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation . Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

### Animal husbandry:

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

Dr Sujata Sethy  
(Nodal officer)



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**Bulletin No.-254**  
**Date- 17/12/2021**

**AGROMET ADVISORY BULLETIN FOR NIALI**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-28°C and night temperature will be 12-14°C for upcoming 5 days. Maximum and minimum relative humidity will be 55-67% and 30-39% respectively. There will be mainly clear sky for next 5 days.

Block	Niali (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	27	28	26	25	26
T-Min(°C)	14	13	13	12	12
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	55	67	63	61	60
RH Min (%)	30	35	39	32	30
Wind Speed(Kmph)	9	10	10	7	6
Wind Direction(deg)	345	23	36	23	315

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage **leaf miner** spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of **Aphid** infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamidrid 20 % SP @ 50-gram/acre in 200-liter of water. To manage **Mustard sawfly** spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- **Vegetables:**
- **Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- **Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing up should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of **cut worm and leaf eating insect**.

- **Tomato:** At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. **Tomato leaf curl virus** may reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid **late blight** precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage **Whitefly** chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.

- **Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.

- **Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.

At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by **diamond back moth**. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of **thrip, mites and Aphids** in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

**Dr Sujata Sethy**  
(Nodal officer)



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**Debasish Jena**

**SMS (Agrometeorology)**

**Contact No-9861445080/7008453427**





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Bulletin No.-254

Date- 17/12/2021

**AGROMET ADVISORY BULLETIN FOR NISCHINTAKOILI**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-28°C and night temperature will be 12-14°C for upcoming 5 days. Maximum and minimum relative humidity will be 53-66% and 27-38% respectively. There will be mainly clear sky for next 5 days.

Block	Nischintakoili (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	28	26	25	26
T-Min(°C)	14	13	13	12	12
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	56	66	58	53	55
RH Min (%)	29	35	38	33	27
Wind Speed (Kmph)	8	9	9	6	6
Wind Direction (deg)	360	23	28	26	333

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing of should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- Tomato:**  
At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may reported in present crop condition, spray Imidacloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.  
At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidacloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

Dr Sujata Sethy  
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**Bulletin No.-254**  
**Date- 17/12/2021**

**AGROMET ADVISORY BULLETIN FOR SALEPUR**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-26°C and night temperature will be 11-12°C for upcoming 5 days. Maximum and minimum relative humidity will be 52-66% and 26-38% respectively. There will be mainly clear sky for next 5 days.

Block	Salepur (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	26	26	25	26
T-Min(°C)	12	12	11	11	11
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	56	66	58	54	52
RH Min (%)	29	35	38	34	26
Wind Speed (Kmph)	7	8	8	6	6
Wind Direction (deg)	360	23	28	28	338

**Agromet Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing up should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- Tomato:**
- At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may reported in present crop condition, spray Imidachloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.
- At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidachloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

**Dr Sujata Sethy**  
(Nodal officer)



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**Debasish Jena**

**SMS (Agrometeorology)**

**Contact No-9861445080/7008453427**



# GRAMIN KRISHIMAUSAM 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

AGROMET ADVISORY BULLETIN FOR TANGI-CHOUDWAR



Bulletin No.-254

Date- 17/12/2021

## District Past week average weather condition and Block past week average Rainfall condition

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-26°C and night temperature will be 10-12°C for upcoming 5 days. Maximum and minimum relative humidity will be 54-71% and 33-42% respectively. There will be mainly clear sky for next 5 days.

Block	Tangi-Choudwar (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	26	26	25	26
T-Min(°C)	12	12	11	10	10
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	58	67	56	54	71
RH Min (%)	36	41	42	33	34
Wind Speed (Kmph)	11	15	14	10	7
Wind Direction (deg)	345	23	34	23	338

## Agromet Advisory

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

### Vegetables:

**Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.

### Potato:

Go for hoeing and hand weeding at 21 DAS and earthing up should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.

### Tomato:

At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may be reported in present crop condition, spray Imidacloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.

**Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.

**Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.

At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidacloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

### Animal husbandry:

In winter during cold hours farmers should keep doors, windows and open spaces in sheds covered with polythene or gunny bag curtains to prevent direct contact to cold air. Give animals mineral mixture along with salt regularly and also wheat grains, jaggery etc. @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals. • In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

Dr Sujata Sethy  
(Nodal officer)



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**Bulletin No.-254**  
**Date- 17/12/2021**

**AGROMET ADVISORY BULLETIN FOR TIGIRIA**

**District Past week average weather condition and Block past week average Rainfall condition**

The block received average 0mm and district received average 0 mm rainfall during the last week. The mean daily maximum and minimum temperature was 27°C (+1.5°C from normal) and 15.5°C (-1°C from normal), respectively. Mean relative humidity of the district was around 79-85%.

**Forecasted period: Today(8.30IST) to 22<sup>nd</sup> December (8.30IST)2021**

**Weather advisory:** Dry weather is forecasted for Today to Tuesday and minimum temperature will likely to decrease in upcoming 5 days in the block. The day temperature will be 25-26°C and night temperature will be 09-10°C for upcoming 5 days. Maximum and minimum relative humidity will be 39-68% and 21-37% respectively. There will be mainly clear sky for next 5 days.

Block	Tigiria (VALID TILL 08:30 IST OF THE NEXT 5 DAYS)				
Date	17/12/2021	18/12/2021	19/12/2021	20/12/2021	21/12/2021
Rainfall(mm)	0	0	0	0	0
T-Max(°C)	26	25	25	25	25
T-Min(°C)	10	10	9	9	9
Cloud Cover(octa)	1	0	0	0	0
RH Max (%)	61	68	68	63	39
RH Min (%)	31	36	37	36	21
Wind Speed (Kmph)	6	7	5	5	6
Wind Direction (deg)	360	15	60	338	326

**Agro met Advisory**

**General Advisory:** Apply light and frequent irrigation / sprinkler irrigation in the evening hours to protect the crops from cold temperature. Cover young fruit plants with straw / polythene sheets / gunny bags. Use low cost polythene covers above the vegetables nursery to avoid poor germination due to low temperature. Before sowing of vegetables, apply well decomposed FYM or compost that will improve the physical and biological properties of soil and thus increase the water retention capacity of soil and also it will maintain the soil temperature in cold night conditions.

**Pulses:** Aphids may infest the crop due to low temperature. Spray 60ml imidacloprid 17.8%SL or 50ml thiomethaxome 25%WG mixing with 200lit of water per acre crop area.

**Rabi-Groundnut:** The early sown rabi groundnut crop is at 3 week stage. Go for weeding and hoeing. Apply 100 kg Gypsum by broadcasting or side dress 50 Kg of Gypsum. Irrigate the crop if required. To manage leaf miner spray Neem Based Pesticide (Azadirachtin) 300 PPM @ 1-litre /acre during primary stage of infestation. To manage chemically spray Profenophos 50% EC @ 400 ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 -litre of water.

**Mustard:** The mustard is at 15 to 20 days stage. Go for hoeing and weeding. Thin out the plants and maintain optimum plant population. There are chances of Aphid infestation in early sown mustard crop. To manage aphids at early stage, put 8 number of yellow sticky traps per acre and to manage Aphids chemically spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre in 200-liter of water. To manage Mustard sawfly spray Ethofenprox 10 % EC @ 200-ml/acre or Chlorpyrifos 50% + Cypermethrin 5 % E.C @ 400 ml/acre by mixing it in 200 litre of water.

- Vegetables:**
- Onion:** The onion seedlings in nursery are five to seven week stage. Prepare the field for transplanting onion seedlings at eight week stage. Pre emergence herbicides may be used in Onion in nursery bed like Quizalofop ethyl 5% EC @50g/ha at 15DAS. Apply 43kg DAPS, 27kg urea, 33kg MOP and 20kg Sulphur per acre before transplanting onion seedlings in main field.
- Potato:**
- Go for hoeing and hand weeding at 21 DAS and earthing of should be done by applying 26 Kg of Urea and 20 Kg of MOP in line on both side at 3-4 cm from the plants and at a depth of 2-3 cm. After 3 weeks of first earthing up go for hoeing and hand weeding and apply again 26 Kg of Urea and 20 Kg of MOP in line on both side the plants and earthing up should be done to cover up the tubers properly. Apply chlorpyrifos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.
- Tomato:**  
At three week stage go for hoeing, weeding and apply 52kg urea per acre followed by irrigation. Tomato leaf curl virus may reported in present crop condition, spray Imidacloprid 17.8% SL @ 0.5 ml or Dimethoate 30% EC @ 2 ml/litre of water at 15, 25, 45 days after transplanting to control vector. To avoid late blight precaution must be taken during the initial infection stage. Spray 2.5-gram Metalaxyl + Mancozeb/lit of water To manage Whitefly chemically sprays Thiamethoxam 25 % WG @ 40-gram/acre or Pyriproxifen 10% EC @ 200-ml/acre or Spiromesifen 22.9% SC @ 250-ml/acre by mixing in 200- litre of water.
- Brinjal and Chilly:** Shoot and fruit borer and leaf eating caterpillars may observe in brinjal field, to control it spray Emamectin benzoate 5% SG @ 0.4 g/litre of water or Chlorantraniliprole 18.5% SC @ 0.4 ml/litre of water. Spraying should be done during the early morning or evening hours.
- Cabbage and Cauliflower:** Browning or Brown rot is a common physiological disorder in cauliflower crop due to deficiency of Boron. This may be controlled by application of borax @ 4-kg/ acre as soil application during transplanting.  
At three week stage go for hoeing, weeding and apply 55kg urea per acre followed by irrigation. Cole crops may get affected by diamond back moth. To control this apply Spinosad 45SC @ 0.5ml/l. There is a chance of occurrence of thrip, mites and Aphids in Brinjal, Tomato, Chilli, cole crops, for control spray imidacloprid 0.3 ml /liter or fipronil 2 ml /liter of water.

**Animal husbandry:**

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**Dr Sujata Sethy**  
(Nodal officer)



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Bulletin No.-254  
 Date- 17/12/2021

				
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- Kindly install and use **“Meghdoot mobile App”** for Cuttack district weather forecast, warnings and weather based agromet advisory services.  
<https://play.google.com/store/apps/details?id=com.aas.meghdoot>
- Kindly install and use **“Damini mobile App”** for location specific for lightening forecast and warnings.  
<https://play.google.com/store/apps/details?id=com.lightening.live.damini>
- Follow the **block specific whats app groups** and join in your block wise groups for getting weather based agromet advisory services twice in a week (Tuesday and Friday) and other weather warning based farm management advisories.
- Follow the **Official Website links** to get the weather based agromet advisory service bulletins (**English & Odia**) twice in a week (Tuesday and Friday).

1	ICAR-NRRI, Cuttack, Odisha	<a href="https://icar-nrri.in/agromate/">https://icar-nrri.in/agromate/</a>	
2	Agrimet division, IMD, Pune	<a href="https://imdagrmet.gov.in/imdproject/AGIndex.php">https://imdagrmet.gov.in/imdproject/AGIndex.php</a>	

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