



**Gramin Krishi Mausam Sewa**  
**District Level Agromet Advisory Bulletin**  
 Orissa University of Agriculture & Technology,  
 Bhubaneswar



## Agromet Advisory Bulletin

Date : 01-12-2023

Weather Forecast of District MAYURBHANJ(Odisha) Issued On : 2023-12-01(Valid Till 08:30 IST of the next 5 days)

Parameter	2023-12-02	2023-12-03	2023-12-04	2023-12-05	2023-12-06
Rainfall(mm)	0.0	0.0	1.0	5.0	10.0
Tmax(°C)	31.0	31.0	30.0	30.0	28.0
Tmin(°C)	18.0	18.0	19.0	21.0	22.0
RH-I(%)	68	71	67	83	84
RH-II(%)	39	44	47	49	76
Wind Speed(kmph)	9	8	6	7	7
Wind Direction(Degree)	153	65	146	180	150
Cloud Cover(Octa)	3	3	4	5	6

### Weather Summary/Alert:

The district is likely to receive very light to light rainfall with partly cloudy to generally cloudy sky. The wind speed will remain within 6.0 to 9.0 kmph up to next five days. The daily maximum temperature may range between 28.0°C to 31.0°C. The minimum temperature may rise between 18.0°C to 22.0°C. Relative humidity during morning may range between 67 to 84 percent and that during the afternoon may range between 39 to 76 percent.

### General Advisory:

Go for harvesting of late duration rice at physiological maturity stage to avoid lodging and germination in the field itself. Make provision for draining out rain water in standing rice crop by making alleys (Pahi) and keep the drain ends open. Go for threshing of the harvested paddy. After threshing, paddy grains need to be sun-dried to 14% moisture for consumption purpose and for seed purpose it should be dried to 12% moisture for better self-life. Rodent infestation has been found in the threshing floor and in the field itself. Use poison bait. For the preparation of 100 g poison bait mix 96 g flour, 2 g edible oil and 2 g Zinc phosphide. Keep water in earthen bowl near the poison bait. Keep one celphos tablet in the mouth of each rat hole. Use 'Super Grain Bag' for safe storage of paddy/rice for longer period of time or store the harvested paddy in properly bagged and stacked with suitable cover to avoid damage due to untimely rain. Start field preparation for green gram and black gram where irrigation facilities are available, grow Rabi crops like groundnut, Cowpea in medium/shallow lowlands utilising the available soil moisture in the field.

### SMS Advisory:

In view of untimely rain, Spray 2% salt solution (20 gm salt in 1 litre water) in places where the harvesting of matured paddy is not possible to prevent the viviparous germination of rice grain.

### Crop Specific Advisory:

Crop(Varieties)	Crop Specific Advisory
RICE	Harvest the paddy if 85% of grains are matured. Keep the harvested products in safe place. If threshing is not possible then cover the harvested paddy with polythene to keep it safe from rain. Make provision for draining out rain water in standing rice crop by making alleys (Pahi) and keep the drain ends open. Do not leave harvested paddy in field. If paddy is lodged then it should be tied together in standing condition in the field.
FINGER MILLET	The ragi crop is at maturity to harvesting stage. Harvest the matured Ragi and keep in safe place to protect from rain damage.
MUSTARD	Optimum time for sowing of Rabi mustard has come, use varieties like T-9, PT-303, Nirmal black gold, ultra and 3-5 kg of seed for line sowing. Use 3 gram of Captan or Thiram per 1 kg of seed. Give spacing of 20*10 cm in late varieties and 30*10 cm in early sown varieties.
GREEN GRAM	Treat the seeds with Carbendazim 50% WP @ 2-gram/ kg of seeds or Carboxin 37.5 % + Thiram 37.5% D.S @ 3-gram/ kg of seeds one week before sowing. Before sowing, treat the seeds with Rhizobium culture @ 20-gram/ kg of seeds. Apply 2 ton of FYM or

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	Compost at the time of last ploughing along with 35 kg DAP, 13 kg MOP, 4 kg of Urea per acre as basal fertilizer.
MAIZE	The maize crop is at maturity to harvesting stage. Harvest the matured cobs and dry under sun light for 4-5 days.
PIGEON PEA (RED GRAM/ARHAR)	The crop is at grand vegetative growth to flower initiation (fifteen to sixteen week) stage. Leaf webber infestation may occur during this stage. To control leaf webber in Arhar spray 400 ml Chloropyriphos 50% + Cypermethrin 5% EC or 400ml profenophos 50% EC mixing with 200 lit of water per acre crop area.
AMARANTH	October to March is suitable for greens amaranth. Amaranth are of two types- White or Red. Use 3 kg seeds/acre. Layout 5 ft long beds of 4 ft wide with bunds. Pulverise the beds, remove the weeds and apply 1 to 2 baskets of FYM/ bed. Because of small size seeds, mix some coarse sands with the seeds for easy and uniform sowing. After sowing cover the seeds with thin layer of soil and cover it with straw followed by light irrigation. Remove the straw after emergence.
SUNFLOWER	Sunflower is a profitable rabi oilseed crop. Now the time is optimum for sowing of sunflower. Grow high yielding varieties like Morden, Sunrise, Surya and Hybrid varieties like KBSH-1, KBSH-3 and MSFH. Use 4 kg seeds/acre for high yielding varieties for rainfed condition, 3.5 kg for irrigated condition, 2-2.5 kg seeds/acre for hybrid varieties under rainfed condition and 1.5-2 kg seeds for irrigated condition. Before sowing treat the seeds with 2 g Carbendazim/kg seeds. To protect the crop from fungal wilt, treat the seeds with 4 g Trichoderma/kg. Soak the seeds for 10-12 hours for better germination. Use 600 g PSB culture per acre after draining out the water. Apply 2 ton FYM along with 8:16:12 kg NPK per acre for high yielding varieties and double of it for hybrid varieties before sowing. Sow the seeds 30 cm apart maintaining a row spacing of 45 cm for loamy soil and 60 cm for clayey soil.

### Horticulture Specific Advisory:

Horticulture(Varieties)	Horticulture Specific Advisory
Menacinakahi	Irrigation is very much crucial in Chilli crop, especially at flowering. Irrigation should be done at 10-12 days interval. To check flower drop in chilli spray Alpha Naphthyl Acetic Acid 4.5 % SL (NAA) @ 3.5 ml/15 litre twice at flower initiation stage and 20-30 Days later of first spray.
CHILLI	Irrigation is very much crucial in Chilli crop, especially at flowering. Irrigation should be done at 10-12 days interval. To check flower drop in chilli spray Alpha

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	Naphthyl Acetic Acid 4.5 % SL (NAA) @ 3.5 ml/15 litre twice at flower initiation stage and 20-30 Days later of first spray.
CAULIFLOWER	Apply 25-kg of Urea per acre after hoeing and hand weeding at 15-20 DAT and 25 kg of urea and 25-kg of MOP per acre as last top-dressing fertilizer at 30-35 DAT. If Borax was not applied during transplanting of seedlings than spray Borax @ 4 kg/acre or Folibor /Solubor @ 1.5 gram/litre. Spraying of Boron micronutrient should be done after two weeks of transplanting and two weeks before curd formation.
ONION	Varieties like Agrifound light Red, Agrifound Dark Red, Bhima Shakti, Bhima Super, Arka Niketan etc are suitable for our Odisha condition during winter season. For one acre of Onion cultivation 4-Kg of seeds require to raise the nursery. Before sowing, seed treatment should be done with Carbendazim 50% WP @ 2-gram/ per kg of seeds or Carboxin 37.5 % + Thiram 37.5% D.S @ 3-gram/ kg of seeds. To prevent Damping off disease in nursery, drench the nursery bed with Carbendazim @ 2-gram/litre of water at 15 days interval. Seedlings of 8-weeks old are planted in the main field.
BRINJAL	For Brinjal apply 30 kg of Urea and 20 kg of Murate of potash per acre after hoeing and hand weeding at 30 DAT and 30 kg of rest urea as last top-dressing fertilizer at 45 DAT. For better yield spray mixture of micronutrient @ 3-gram/litre twice at 30 and 60 DAT.
TOMATO	For tomato apply 30-kg of urea and 20-kg of Murate of potash after hoeing and hand weeding at 20-25 DAT and rest 30 kg of urea at 40-45 DAT. For better yield spray mixture of micronutrient @ 3-gram/litre two to three times at 10-15 days interval after 45 DAT.
OKRA/ LADYFINGER	To manage sucking pest like aphids, Jassids, thrips and whiteflies in Okra spray neembased pesticide (Neem Oil 1500 PPM Azadiractin @600-ml/acre by mixing it in 200-litre of water or install 8-10 Nos of Yellow sticky traps per acre to control the pest. Spray Thiamethoxam 25 % WG @ 40-gram/acre or Acetamiprid 20 % SP @ 50-gram/acre or Fenobucarb @ 400-ml/acre or Tolfenpyrad 15 % EC @ 400-ml/acre by mixing it in 200-litre of water when infestation is severe.
MARIGOLD	To manage Red Spider Mites in flower like Marigold and rose spray wettable sulphur 80 % WP (Sulfex/Balwan/Sulfadex) @ 2-gram/litre of water or Propargite 57 % EC (Omite/Mitekill/Super Dynamite) @ 2-ml/litre of water or Fenpyroximate 5 % EC (Seagate/Mitigate/Formite) @ 2-ml/litre of water.
BANANA	To manage stem weevil, install Cosmolure pheromone traps @ 10/acre in banana garden. Dip the banana stem in warm water for 30 minutes before planting. Fill the pit with 25 g neem pedia or 25-50 g any granular insecticide before planting. Cut

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	the affected plant into pieces and dry under sun. Keep the banana garden neat and clean.
PAPAYA	To manage mealy bug at early stage of infestation spray neem-based pesticide (Neem Oil 1500 PPM @30- ml/10-litre of water or insecticidal soap. In case of severe infestation spray Profenphos 50 % EC @ 20-ml/10-litre of water or Thiamethoxam 25 % WG @ 3-gram/10-litre of water.
GARLIC	The weather is optimum for sowing of garlic in irrigated upland and medium land Grow HYV like Phawari, Jamnagar and G-282. Use 150 kg seed material per acre. Apply 24:24:24 kg NPK per acre as basal along with 15 tons of FYM. Sow the seeds at 8 cm apart, maintaining a row spacing of 20 cm.
GARDEN PEA	Now it is optimum time for sowing of green pea in the fallow uplands. High Yielding varieties suitable for Odisha such as Rachana, Arkel and T -163 Use 25-30 kg seeds/acre. Before sowing seeds are to be treated with 2 g Carbendazim/kg seeds. Apply 10:16:10 kg NPK/acre during final land preparation. Sow the seeds in line 30 cm apart with 10 cm plant to plant distance.
PUMPKIN	To manage fruit fly in cucurbits, prepare a poison bait by mixing 400- gram Jaggery and 8-ml Malathion or DDVP in 4-litre of water. Keep this mixture in Plastic cups or clay pots @80-nos/acre. The fruit flies will be attracted to this and eventually get killed by falling into the poison baits.

### Live Stock Specific Advisory:

Live Stock(Varieties)	Live Stock Specific Advisory
COW	Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10%-20% in the daily ration during winter season to meet the energy requirement of the animals.

### Fisheries Specific Advisory:

Fisheries(Varieties)	Fisheries Specific Advisory
COMMON CARP	During winters, various fungal, bacterial and parasitic diseases may appear in the fish. Treat the pond with CIFAX @ 400 ml/acre just before the onset of winters. Also treat the pond with potassium permanganate @ 1-2 kg/acre or limestone @ 50-100 kg/acre.

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	Salt application @ 100 kg/acre also helps in protecting fish against disease outbreak during winters.

**Poultry Specific Advisory:**

<b>Poultry(Varieties)</b>	<b>Poultry Specific Advisory</b>
CHICK	If the Poultry bird is 3-4 weeks old then go for Vaccination against Ranikhet disease.