Bulletins No.98/22
AGRO ADVISORY BULLETIN
Friday/09.12.2022

Weather Condition During Last Week at Bhadrak (07.12.2022 – 11.12.2022)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainfall (mm)</td>
<td>0.0</td>
</tr>
<tr>
<td>Maximum temperature (°C)</td>
<td>26.0-29.0</td>
</tr>
<tr>
<td>Minimum temperature (°C)</td>
<td>14.0-18.0</td>
</tr>
</tbody>
</table>

BHADRAK

Forecasting (Up to 14.12.2022): According to IMD, Bhubaneswar the sky will remain Partly Cloudy on Saturday to Wednesday. The Districts may experience till clear on Saturday to Wednesday. Wind will blow from North-Eastery on Saturday, Sunday, Monday Easterly on Monday, Tuesday, Wednesday at a speed of 09.0 to 13.0 km/h. The maximum temperature will increase to 29.0°C from 27.0°C by Tuesday. The minimum temperature will increase to 17.0°C from 14.0°C by Tuesday. The maximum relative humidity will range from 59 % to 50 % while the minimum from 36 % to 33 % during this period.

Agromet Advisory

**Kharif Rice**
- Transplanted rice which have reached at 80% of maturity grains must be stored in clean bags and cover with polythene to protect from rain.
- Grains must be dried under sun for 3-4 days to 14% moisture for consumption and 12% moisture for seed purpose.
- If stored grain infestation occurs, take up fumigation by using Aluminium phosphide tablets @ of 3 tablets / ton grain in fairly air tight containers or by covering with thick tarpaulin leaving no gaps. The tablets should be wrapped in cotton pouches before placing them in the stacks, which helps to discard the remnants after completing the fumigation.

**Sugarcane**
- To minimize infestation of top shoot borer, spray Fipronil 5Sc@2ml/l or Lamba cyhalothrin 4.9CS @1ml/litre of water.

**Rapeseed and Mustard**
- Taking the advantage of store soil moisture, land preparation and sowing of the crop should be completed soon to get optimum yield.
- Suitable varieties: Toria- Anuradha, Parbati, Sushree
  - Indian mustard- NRCHB 101, Mahyco bold, JD 6
- Seed rate- 8-10 Kg/ha Spacing- 30 cm X 10 cm
- Fertilizer dose: Toria @60:30:30 N-P2O5- K2O Kg/ha
  - Mustard@80:40:40 N-P2O5-K2O Kg/ha
- 50%N and all P2O5 and K2O fertilizers should be applied as basal.

**Groundnut**
- Utilizing stored soil moisture, land preparation should be started in uplands. During final ploughing, apply 250 kg Gypsum/ha and cover the soil.
- Suitable varieties: Smruti, JL-24, Devi
- Seed rate- 125 Kg/ha with spacing 25X10 cm
- Treat the seeds with Carboxin+Thiram @2g/kg of seed and after 7 days seed treatment should be done with Rhizobium culture @40g/Kg seed, PSM@40g/Kg seed and Ammonium molybdate @3g/10 Kg seed.
- Apply all fertilizes as basal i.e. DAP-1.0 q, MOP- 67 Kg and Borax- 10 Kg per hectare
- Spray weedicide Trifluralin@1.2litre/ha as pre planting incorporation or spray Pendimethalin @2.5 litre/ha, one day after sowing and avoid irrigation thereafter for a week.
| **Pulse crops** | - After harvesting of paddy in medium land, it is ideal time for land preparation for sowing pulses like green gram, black gram and pea.  
- Right time to take up Paira crop which can be sown seven days before harvesting of paddy.  
- Sow the seeds after treating with Carboxin+Thiram @ 2gm/kg of seed.  
- Treat the seed after 7 days of above insecticide with specific Rhizobium culture before sowing. Mix 400g culture with 3g Ammonium molybdate & 800 ml water and apply with 10 kg of seed.  
- Seed rate: Green gram and Black gram: 25-30Kg/ha. Pea-50Kg/ha. Fertilizer dose:20-40-20 Kg N-P2O5-K2O/ha |
| **Vegetables** | - To control Fruit and shoot borer in Brinjal, Spray Neem based pesticide 1500ppm @600ml/acre at initial stages. Later on go for alternate spray of Spinosad 45% SC @70ml/acre and Thiodicarb@300g/acre at 15 days interval  
- To control thrips in Chilli and aphids in Cowpea crop, spray Imidacloprid @ 5 ml in 10 litres of water.  
- To prevent from wilting or partial wilting in brinjal and tomato apply Neem or Karanjaa cake. And spray (basal + foliar) Tebuconazole fungicide @ 1ml/liter.  
- To control leaf eating caterpillar and fruit borer in winter vegetables like Brinjal, Cauliflower, Cabbage, Chilly & tomato apply 0.5 g Emamectin benzoate or 0.4 ml Spinosad per liter of water.  
- For leaf blight, leaf spot and downy mildew problem in pointed gourd apply 400 gram (Metalaxyl + Mancozeb) or 300 gram Chlorothalonil or 160 ml Azoxytrobin in 200 liter water per acre.  
- For Brinjal &Tomato 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 two to three times at 10-15 days interval after 45 DAT.  
- Earthling up should be done in vegetables.  
- Provide bamboo or wooden stake to prevent lodging of tomato plants.  
- For potato, go for hoeing and hand weeding. The ridges should be high and strong enough to cover up tubers. Irrigate the crop at 7-8 Days interval depending upon soil moisture and weather condition. During irrigation 2/3 portion of the ridge should be submerged. |
| **Pisciculture** | - As the winter is in the starting phase, there is a possibility of “EUS” disease in fish. Farmers are advised to apply ‘Cifax’ @ 400 ml mixed with 40 litre of water in one acre pond area as a preventive measure.  
- The fishes should be fed daily with oil cake bran mixture at the rate of 2-3 % of their total biomass. |
| **Animal Science** | - 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.  
- 10% extra dry matter should be provided over and above the total requirement to fulfill the extra energy requirement in winter |

Due to Covid-19 pandemic situation, farmers while conducting agricultural operations, should use mask or handkerchief to cover their mouth & nose and maintain social distancing.

*Sd/-*  
Nodal Officer & Assoc. Director of Research