

# **Agro Advisory Service for Rice**

## **ICAR - National Rice Research Institute, Cuttack**

### **Strategies for First Fortnight of June 2020**

**Alert:** Farmer should remain alert for the infestation of locust. As a preventive measure, use Malathion 50% EC @ 1850 ml OR Malathion 25% WP @ 3700 gm OR Chlorpyrifos 20% EC @ 1200 ml OR Chlorpyrifos 50% EC @ 500 ml per ha in 500 liters of water. Alternatively, (i) spray 1.0 litre of neem oil in 200 litres of water per acre to control locust swarm, (ii) Dig 2 feet deep and 2 feet wide trench in front of marching hopper band and then applying Quinalphos 1.5 % DP OR chlorpyrifos 1.5 % DP or Methyl Parathion 2 % DP dust in the trench (iii) Make loud sound (100-125 Decible) by beating empty tins/metal plates, drum or radio or through other electronic sound system to prevent locust swarm landing in the crop.

### **Summer rice**

- After threshing and cleaning moisture content of the rice grain should be brought down to 14% before storage by drying under sun for 2 days. For seed purpose the grain should be dried to 12% moisture level.
- Store the sundried rice grains in storage bin or polythene line gunny bags to prevent the infestation of storage grain pests.
- To protect the stored grains from damage due to storage insect pest, take up fumigation by using Aluminium phosphide tablets @ 3 tablets / ton of grains (total 9 gm of tablets) in fairly air tight containers. Minimum exposure period is for about 7-10 days. Fumigation should not be done in dwelling houses.

### **Dry direct seeded kharif rice**

- In intermediate/semi-deep and deep water rice ecology where direct seeding is practiced, complete the final land preparation by using cultivator 2 - 3 times to get a fine tilth followed by proper land leveling. In light soil, tractor drawn rotavator may be used for obtaining fine tilth to go for dry seeding behind the country plough or using seed drill.
- Land preparation should be done in rainfed shallow lowland areas, where direct seeded rice is to be grown.
- For upland direct seeded rice, use varieties like CR Dhan 100 (Satyabhama), CR Dhan 101(Ankit), Sahbhagidhan, Phalguni, Vandana and other suitable varieties. Complete the sowing of seeds by using seed drill or behind the plough keeping row spacing of 20 cm with the onset of monsoon.
- Incorporate well decomposed Farm Yard Manure (FYM) or cow-dung at 2 t per acre during the final land preparation.

- Apply full dose of Phosphorus at 12 kg per acre (preferably 75 kg SSP or 27 kg DAP per acre) in shallow lowland areas where as Phosphorus at 8 kg per acre (preferably 50 kg SSP or 18 kg DAP per acre) in semi deep and deep water dry direct sown rice at the time of final land preparation.
- Rice varieties like Varshadhan, Durga, CR Dhan 501, Sarala and Gayatri may be selected for intermediate deep water, CR Dhan 500, CR Dhan 502 (Jayanti Dhan), CR Dhan 503 (Jalamani), CR Dhan 505, CR Dhan 507 (Prasanta) for deep water areas and sowing with good quality seeds of above varieties @ 14-16 kg per acre should be completed.
- Rice varieties viz., Swarna, Pooja, CR Dhan 300, Sumit, Pratikhya, Ranidhan, and CR Dhan 407 may be selected for rainfed shallow lowland areas. Swarna *sub1*, Gayatri, CR Dhan 801 and CR Dhan 802 may be selected for rainfed lowlands. Sowing with good quality seeds of above varieties at 14-16 kg per acre should be completed in direct seeded areas.
- Mechanical separation by dipping rice seeds in 2% common salt solution helps in selection of good quality seeds and removal of weed seeds.
- Seed may be treated with *Trichoderma viride* @ 10 gm per Kg of seed before sowing.

### **Transplanted rice**

- Land may be prepared for dry nursery at the onset of pre-monsoon showers.
- For shallow lowland transplanted rice, arrange good quality seed of varieties like CR Dhan 307 (Maudamani), CR Dhan 303, CR Dhan 304, MTU 1001, MTU 1010, Naveen, CR Dhan 310, DRR 44, Improved Lalat, CR Dhan 301 (Hue), CR Dhan 800, CR Dhan 404, Swarna, Pooja, Swarna *sub1* and BPT 5204 may be arranged.
- For coastal saline region farmers are advised to arrange salt tolerant varieties like CR Dhan 405 (Luna Sankhi), CR Dhan 403 (Luna Suvarna)) and Lunishree.
- Farmers interested to grow hybrids in irrigated medium and shallow lowland are advised to arrange hybrid seeds like Ajay, Rajalaxmi, CR Dhan 701, KRH-2 and PHB 71.
- Farmers interested for aromatic rice are advised to arrange good quality seeds of varieties like Geetanjali, CR Sugandh Dhan 907, CR Sugandh Dhan 908 and CR Sugandh Dhan 910.
- Sowing of *dhaincha* seeds @ 12 kg per acre may be completed at the onset of pre monsoon rainfall in shallow lowland areas.

