

**Agro Advisory Service for Rice**  
**ICAR - National Rice Research Institute, Cuttack – 753006**

**Strategies for Second Fortnight of June 2020**

**Dry Direct Seeded Rice**

**Lowland dry direct seeded rice**

- Use quality seeds of rice varieties like Varshadhan, Durga, CR Dhan 501, Sarala and Gayatri 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 rice.
- Mechanical separation by dipping rice seeds in 2% common salt solution helps in selection of good quality seeds and removal of weed seeds.
- Complete the seed treatment with *Trichoderma viride* @ 10gm/Kg of seeds. Farmers are advised to avail the seed treatment facilities provided by state Agriculture Department in their locality.
- 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.
- Complete the sowing of dry direct seeded rice in intermediate/semi-deep and deep water rice ecology. Seed should be sown behind the country plough followed by laddering or by using seed drill at a spacing of 20 cm with 14-16 kg of seed per acre.
- In semi-deep/deep water direct areas where direct seeding has already completed, to control weeds apply Bispyribac sodium 10% SC @ 120 ml/acre in 8 tank of sprayers (16 lit capacity) at 8-10 days after sowing when the weeds are at 2-3 leaf stage as an alternate to manual weeding.

**Upland dry direct seeded rice**

- For upland direct seeded rice, use varieties like CR Dhan 100 (Satyabhama), CR Dhan 101(Ankit), Sahabhagidhan, Phalguni, Vandana.
- Mechanical separation by dipping rice seeds in 2% common salt solution helps in selection of good quality seeds and removal of weed seeds.
- Incorporate well decomposed Farm Yard Manure or cow-dung at 0.8 t /acre during the final land preparation. Apply full dose of phosphorus (50 kg SSP or 18 kg DAP) and 2/3rd of Potash (10 kg MOP/acre) as basal dose.
- Complete the sowing of upland rice. Seed should be sown behind the country plough followed by laddering or by using seed drill with a spacing of 20 x10 cm by using 14-16 kg of seed per acre
- To control weeds in upland rice spray herbicide Bispyribac sodium 10% SC at 120ml/acre in 8 tank of sprayers (16 lit capacity) at 8-10 days after sowing when the weeds are at 2-3 leaf stage as an alternate to manual weeding.

## Transplanted rice

- For shallow lowland transplanted rice, use 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 Sub 1 and BPT 5204.
- 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/acre may be completed with the onset of monsoon rainfall in shallow lowland areas.
- About 320 m<sup>2</sup> areas are required to raise seedlings for transplanting of one acre main crop. Complete the dry nursery in rainfed areas .Prepare seed beds of 1.2 m width, 10-15 cm high of convenient length. In-between two beds keep well defined irrigation/drainage channel of 30 cm width.
- In irrigated areas, sow pre germinated seeds in wet nursery. Prepared wet seed beds of 1.2 m width, 10 cm high of convenient length in puddle soil. In-between two beds keep well defined irrigation/drainage channel of 30 cm width.
- Use seed rate of 12-14 kg/acre for HYV depending on test weight of seeds, for hybrids use 5-6 kg/acre.
- 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. Farmers are advised to avail the seed treatment facilities provided by state Agriculture Department in their locality.
- If the infestation of Thrips is noticed in rice nursery, spray NSKE (Azadirachtin) @ 800 ml/acre or Lambda-Cyhalothrin 5 % EC @ 100 ml/acre or Thiamethoxam 25 % WG @40g /acre.