

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

Strategies for First Fortnight of June 2019

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.
- Store the sundried rice grains in storage bin or polythene line gunny bags to prevent the infestation of storage grain pests.
- Soon after noticing the infestation of insect pest in stored grain, take up fumigation by using Aluminium phosphide tablets @ of 3 tablets / ton of grains (total 9 gm of tablets) in fairly air tight containers. Minimum exposure period is for about 7-10 days. Do not take up fumigation 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), Sahabhagidhan, Phalguni, Vandana. Complete the sowing of seeds by using seed drill or behind the plough with the onset of South West monsoon.
- Incorporate well decomposed Farm Yard Manure or cow-dung at 2 t /acre during the final land preparation.
- Apply full dose of Phosphorus at 12 kg acre⁻¹ (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 acre⁻¹ should be completed.

- Rice varieties viz., Swarna, Pooja, CR Dhan 300, Sumit, Pratikhya, Ranidhan, and CR Dhan 407 etc. may be selected for rainfed shallow lowland areas, but, Swarna sub-1, Gayatri, CR Dhan 801 and CR Dhan 802 etc. may be selected for rainfed flood prone low lands. Sowing with good quality seeds of above varieties at 14-16 kg acre⁻¹ should be completed in direct seeded areas.
- Mechanical separation by dipping rice seeds in 2% brine solution helps not only selection of high-density seeds but also removal of floating weed seeds.
- Seeds should be treated with Carbendazim 50 WP at 1.5 g/kg of seed for wet treatment or 2 g/kg of seed for dry treatment. In blast endemic area, seed should be treated with Tryclazole 75 WG (Baan or Bim) @ 0.6 g per kg of seed in 1 liter of water.

Transplanted rice

- Land preparation for dry nursery may be done with 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 Sub 1 and BPT 5204 may be arranged from reliable source like Research institute, Universities, KVK, Block Office and other reputed farms.
- For costal saline region farmers are advised to arrange salt tolerant varieties like CR Dhan 405 (Luna Sankhi), CR Dhan 403 (Luna Suvarna)) and Lunishree from reliable source.
- Farmers those are interested to grow hybrids in irrigated medium and shallow lowland are advised to arrange good quality TL seeds of varieties like Ajay, Rajlaxmi, CR Dhan 701, KRH-2 and PHB 71 from reputed seed companies or farms or agencies.
- Farmers those are 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 from reputed seed companies or farms or agencies.
- Sowing of *dhaincha* seeds @ 12 kg/acre may be completed with the onset of pre monsoon rainfall in shallow lowland areas.