

Agro Advisory Service for Rice
ICAR - Central Rice Research Institute, Cuttack 753 006

Strategies for First fortnight of February 2015

Crop at Nursery bed:

- In case of late sown nursery, if seedling growth is not satisfactory due to low temperature, 2% urea solution may be sprayed in nursery for good seedling vigour.
- Maintain a thin film of water through light irrigation.
- Drench the seedbed with Tilt 250 EC (Propiconazole) @ 1 ml per litre or Carbendazim 50 WP (Bavistin 50WP) @ 2 g per litre of water if rice nurseries affected by seedling blight. About 40 litres of solution is required for drenching of 800 m² of nursery bed.

Crop to be planted in Main field:

- Prepare the main field by puddling second time and leveling the field properly to facilitate uniform crop stand
- Fertilizer dose for high yielding varieties is 100:50:50 kg N:P₂O₅:K₂O/ ha and apply 1/4th of N, full dose of P₂O₅ and 2/3rd of K₂O as basal dose. Fertilizer dose for hybrids is 120:60:60 kg N:P₂O₅:K₂O/ ha and apply 1/4th of N, full dose of P₂O₅ and 3/4th of K₂O as basal dose.
- In Bacterial leaf blight endemic areas, deep the seedling roots in 0.1 % plantomycin solution before transplanting for 30 minutes
- Transplant 25-30 day's old seedlings @ 2-3 seedlings/hill for HYVs and 1-2 seedlings/hill for hybrids at 15 x 15 cm spacing.

Crop just transplanted:

- Apply Bensulfuron methyl 0.6% + Pretilachlor 6.0% GR @ 10 kg/ha within 8 days of transplanting if mixed population of weeds (grasses, sedges and broadleaved weeds) are present. Mix the granular herbicide with 30 kg sand/ha and broadcast it uniformly in the field.
- Monitoring should start for Yellow stem borer moth emergence from 1st February either visually or through pheromone trap. When the insect incidence crosses the ETL level (ETL: one eggmass or 1-2 moths/sq mt or 4-5male moths /trap/day), the following action should be taken:
- Insecticide granule of carbofuran (3%) @ 12 kg / acre, Cartap hydrochloride (4%)@ 10 kg / acre or foliar application of rynaxypyr @ 60ml / litre or triazophos(40%) @ 500ml/acre or chlorpyrifos @ 500ml/acre may be applied. The total spray fluid to be used is 200 litre/acre in hand operated sprayer.

Crop at 15 - 20 DAT:

- First top dressing of nitrogen may be done with half of the recommended dose (Urea @ 105 kg for HYVs and 130 kg for hybrids) when crop attains active tillering stage at 30 DAT.
- In areas predominant with sedges and non grassy broad leaf weeds, spray Chlorimuron ethyl + Metsulfuron methyl 20% WP @ 20 g/ha or Bensulfuron methyl 60 DF @ 100 g/ha. Spray in moist field after draining out standing water by mixing the herbicides with 500 liter of water/ha and irrigate field after 2 days of application of herbicides.
- In SRI rice cultivation, Cono weeder may be used to pulverize the weed after 20 - 25 days after transplanting.

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[For Assam]

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- Five to seven days before uprooting the seedlings, apply carbofuran 3G @ 3 g/sqm in *boro* rice nursery.
- Transplanting of 45 to 50 days old *boro* rice seedlings in the main field should be completed by mid-February. Clip-off seedling leaf tips before transplanting in order to reduce insect-pest infestation in the main field.
- At the time of final puddling of *boro* rice field, apply 9 kg urea, 27 kg SSP and 6 kg MOP per bigha as the basal dose of fertilizers.
- Spray herbicide Pyrazosulfuron ethyl 10 WP @ 200 g per ha in 500 litres of water at 5-7 days after transplanting of *boro* rice to control weeds.
- For wet direct-seeded early *ahu* rice, main field preparation should be done by shallow tillage followed by ponding of water and initial puddling. Do the final puddling after 7-10 days followed by laddering. Proper leveling has to be done to retain water uniformly in the field. Sow pre-germinated seeds of varieties like Naveen, Abhishek, Luit, Kapili and Sahbhagi Dhan using drum seeder or in lines spaced 20 cm apart.
- For transplanted early *ahu* rice, nursery sowing of pre-germinated seeds of varieties like Naveen, Abhishek, Luit, Kapili and Sahbhagi Dhan should be done in nursery beds (size, 125 cm x 10 m) which are spaced 30 cm apart. Seed rate for transplanting one ha of main field is 35 to 40 kg. Seeds should be treated with Carbendazim 50WP @ 2g/lit of water/kg of seeds.