

## **ICAR-INDIAN INSTITUTE OF WATER MANAGEMENT, BHUBANESWAR**

### **Agro-Advisory to farmers under prevailing COVID-19 situation for the month of July, 2022**

#### **Maintenance of Personal Health & Hygiene**

- ❖ All farm equipment and accessories used for harvesting, threshing and other activities to be sanitized by keeping in 3% bleaching powder solution for 30 minutes before, after and during farm operations.
- ❖ Maintenance of personal hygiene and frequent washing of hands up to elbow, feet and face with soap is advisable during every farm operations like harvesting, threshing, etc. and eating.
- ❖ Do not touch eyes, mouth and nose with dirty hands.
- ❖ Restrict your movement as much possible and try to stay home.
- ❖ National Agriculture Market (e-NAM) Platform can be used for marketing agricultural produce along with mandis and local markets.
- ❖ Download 'Aarogyasetu mobile app' for essential health services / information.
- ❖ Get yourself vaccinated by registering in Aarogyasetu or in [www.cowin.gov.in](http://www.cowin.gov.in) portal.

#### **Water Management advisory**

- ❖ Follow the advisory of IMD with respect to occurrence of rain as well as other weather parameters through TV/Radio/Newspaper.

#### **Irrigation Infrastructure development and maintenance**

- ❖ Harvest rainwater in-situ and divert runoff or excess canal water through the approach channel and/or inlet-pipe to ponds/tanks/water harvesting structures.
- ❖ Clean and repair the emergency spillways of percolation ponds, water harvesting structures and grassed waterways for safe disposal of excess runoff water.
- ❖ Desilt drainage channels to maintain its carrying and drainage capacity.

#### **Land preparation**

- ❖ Repair the damages and seal the field bunds and contour bunds, and reshape it with suitable height to conserve rainwater in the field required for puddling
- ❖ Before transplanting of paddy, do planking or laddering in puddled fields for uniform spread of water.
- ❖ Apply 35 kg DAP, 27 kg Potash and 8 kg Urea per acre during last puddling. For sandy soil apply 35 kg DAP, 15 kg Potash and 8 kg Urea per acre during last puddling. Apply zinc as zinc sulphate (21%) @ 10kg/acre in zinc deficient soil as mentioned in Soil Health Card.
- ❖ Provide drainage channels in the rice field under SRI method of cultivation to maintain water level in the field.
- ❖ For flood washed rice fields, raise rice nursery in rooftops or in homestead gardens using polythene sheet and nutrient solutions.
- ❖ For waterlogging susceptible crops, construct ridges around the crop base and furrows in between for better crop growth and yield during rainy season.
- ❖ Make necessary drainage arrangements through channels to drain out excess rainwater from the non - paddy crop fields to water storage ponds.

### **Crop management**

- ❖ Rice seed treatment should be done @ 5 gram Emisan + 1 gram streptocyclin or with 5 gram Emisan + 2.5 gram Agromycine for 10 kg of seeds dipped in 10 liter water for 24 hour.
- ❖ For enhancing germination and quick establishment of rice nursery, the water soaked treated seeds should be put in gunny bags and hot water treatment should be given.
- ❖ Rice nursery preparation- prepare the seed bed of 6 inch height and 3 ft wide with convenient length; apply manure and fertilizers; use 30-40 kg seeds for one ha transplanting; make channels in-between strips to drain out excess rainfall/ water.
- ❖ Complete the sowing of direct seeded rice with good quality seeds at the rate of 30 kg/ha.

Complete plantation of fruit, vegetable crops and agro-forestry tree species in this month.

- ❖ **Mango:** Plant healthy grafted seedlings of suitable varieties viz., Amrapalli, Dusseheri, Chousa, Baganpalli, Totapuri, Bombay green, Suvarnarekha, Himsagar, etc. in pits with a spacing of 10m X 10m. The pit size is 1m X 1m X 1m. Apply two basket compost, 80 g N, 100 g P<sub>2</sub>O<sub>5</sub> and 60 g K<sub>2</sub>O fertilizer at the time of planting.
- ❖ Drain excess rainwater from mango orchards and apply organic manure @ 50 kg per tree in the tree basin after removing weeds from basin.
- ❖ **Guava:** Apply Neem cake (250-500 g/ plant), *T. harzianum* or *T. viride* (25-50 g/plant), in basin of root-knot infected guava trees. Don't grow root-knot nematode susceptible crops (brinjal, tomato, chilli, sugar beet, tobacco, watermelon, beans, potato, pumpkin, basil, rose, garlic, cabbage, maize, groundnut, onion, etc.) in guava orchards during this period.
- ❖ **Coconut:** Clean the basin area and remove weeds, then apply 1 kg Urea, 2 kg SSP and 2 kg MOP along with 5 kg Neem cake per plant by making a ring around the plant. Apply 200 g micronutrient mixture in two splits along with borax @ 50g per coconut tree to avoid bottom shedding during August.

### **Livestock and Aquaculture Management**

- ❖ Release fish fries and fish fingerlings towards the end of this month to the pond.
- ❖ Administer deworming medicines to your domestic animals based on faecal sample examination. If faecal sample examination is not possible, then give two doses of broadspectrum anthelmintic like Albendazole+Ivermectin combination drug at 7-10 days interval.
- ❖ Provide sufficient clean drinking water before letting the animals free for grazing and prevent the animals from drinking muddy water in ditches to reduce chance of contamination of diseases and endoparasites.