

## **System of Rice Intensification (SRI)** **PACKAGE OF PRACTICES**

**Selection of Land:** Medium Upland, Medium Lowland & Lowland areas are very much suitable for SRI cultivation. In case of Medium Upland & Medium Lowland, the presence of irrigation facility would be helpful for the cultivation.



**Land preparation:** 4-5 ploughing is required for preparing the land & in the last ploughing, we need to ensure it is upto a depth of 6 inches

**Selection of Seed:** For Medium Lowland & Lowland, any improved variety of 150 days duration and for

Medium Upland, any improved variety of 120 days duration can be selected

**Seed Requirements:** 1 Kg seed is required for 33 decimal plot or 3 Kg for 1 acre of land

**Seed Treatment:** Take a bucket of clean water; put the entire seed in the bucket full of water for 12 hours. Then take it out and dry it in shade and add Bavistin Powder (Carbendazim) @ 3 gm/kg of seed & keep the seed in a wet gunny bag for germination

**Nursery Preparation:** For 1 acre of 'Transplanting', we need to prepare 6 small beds (size 20 ft X4 ft). Prepare drain for drainage of excess water during heavy rain on four sides of the bed.

Apply 25 kg of FYM in each of the bed. Then spread the treated and partly germinated seeds in the nursery bed very thinly. We have to develop the nursery bed in a corner of our main field for easy transplantation.



**Main Field Preparation:** During the last ploughing, we need to apply 35 Kg DAP & 20 Kg MOP on 1 acre of main field and mixing it with the soil



properly. In the main field also, we need to prepare drains (4 sides of the main field as well as in the middle of the plot at a distance of every 20 ft).

**Transplantation:** Take seedlings of 8-14 days old for transplantation (depending upon occurrence of a good rain). Pull the seedlings from the nursery bed very carefully (do not disturb the roots) by using a Spade or Kadai or Plate

As the nursery plot is in the corner of the main field therefore, we need not carry the seedlings very far.

The spacing we need to follow is 10 inch X 10 inch and transplant single seedling maintaining the



proper spacing (take a rope of 40-50 ft length & mark it after every 10 inch by a nail/wood/plastic etc.). After completing one row, the rope can be shifted for transplantation of another row.

#### Inter-culture & Top dressing:

1. First top dressing is usually done 15-20 days after transplanting ( Weeding is done & application of Urea @ 12 Kg/acre is recommended)
2. Second top dressing is usually done 30-35 days after transplanting ( Weeding is done & application of 10 Kg MOP and 18 Kg Urea is recommended for 1 acre of land)
3. Third top dressing is usually done 45-50 days after transplanting ( Weeding is done & application of 10 Kg MOP and 12 Kg Urea is recommended for 1 acre of land)



**Detail of Investment for 1 acre of SRI cultivation:**

Sl.No	Input Required	Quantity	Amount in Rs.
1	Seed	3 Kg	45
2	Bavistin Powder	10 Gm	10
3	Fertilisers		
a	DAP	35 Kg	420
b	MOP	40 Kg	280
c	Urea	42 Kg	252
<b>TOTAL COST</b>	<b>FOR 1 ACRE</b>		<b>Around 1000/-</b>



**Important points to be taken care of during the practice:**

1. There is no need of holding water of 2-2.5 inch on the main field but maintaining a water of 0.5 inch is sufficient
2. There must be provision of alternate drying and soaking of the plot, which will help positively in the production
3. For crop protection –visiting the plot regularly should be ensured
4. Put some sticks inside the plot to help birds to come and sit, which will help us in protecting the crop

**Expected Yield:**

6-8 Tons/Ha can be achieved by following the PoP