

Growing Onion...

Location...

Sunny location, where your onions won't be shaded by other plants. The more energy they can get from the sunlight, the larger their bulbs can grow.

Soil...

Red to black loamy soil with good drainage is best suited; with pH range of 6.0 to 7.0 is good

Create layout (Refer next section)

Pulverise soil- ploughed to fine tilth

Add about an inch of organic matter during preparation of land in the form of compost or farmyard manure or well decomposed poultry manure it is important. (dig a trench in the soil about 2 inches deep and 3 inches wide, and then fill the trench back in with about an inch of comp)

Fertilizer application... NPK – 50:30:40 kg per acre

- At the time of soil preparation per acre along with 20 kg N, 20 kg P₂O₅ & 20 kg Potash /acre should be applied micronutrient 5 kg Zinc + 15 kg Calcium nitrate.
- 20 kg N + 10 kg P and 20 kg Potash to be applied after a month of sowing and
- 10 kg of N 20- 25 days before harvest.

Layout...

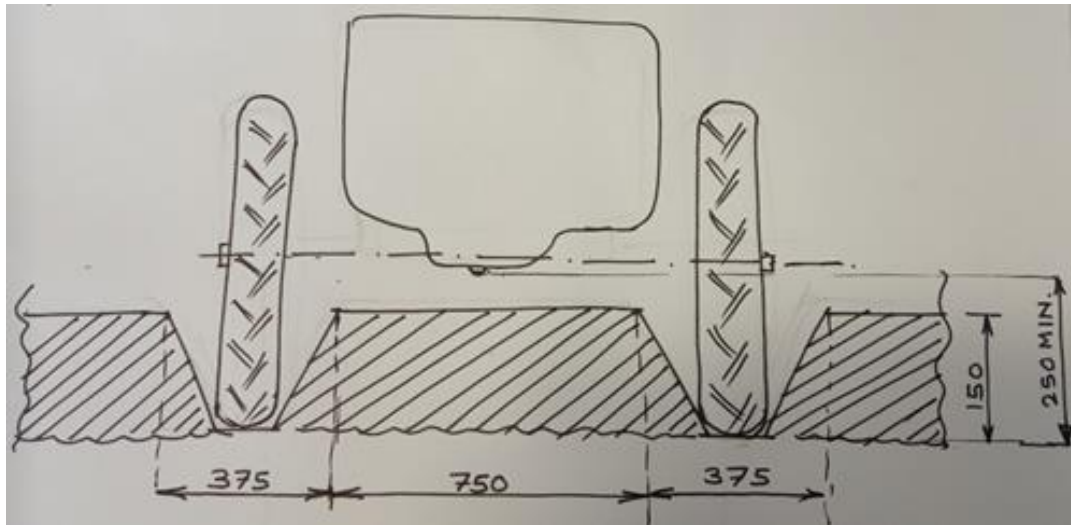
The cultivation of onion will be done using Bed Furrow Bed method.

Prepare 2 Bed for onion cultivation (requirement for final competition)

Each bed will be 0.75m wide separated by 0.375m wide furrow form adjacent bed.

The bed will extend 20 m in length Refer image below in mm

Preparation of crop will be start before 120 days of final competition. And Water will be cut off before 15 days.



Crop Pattern

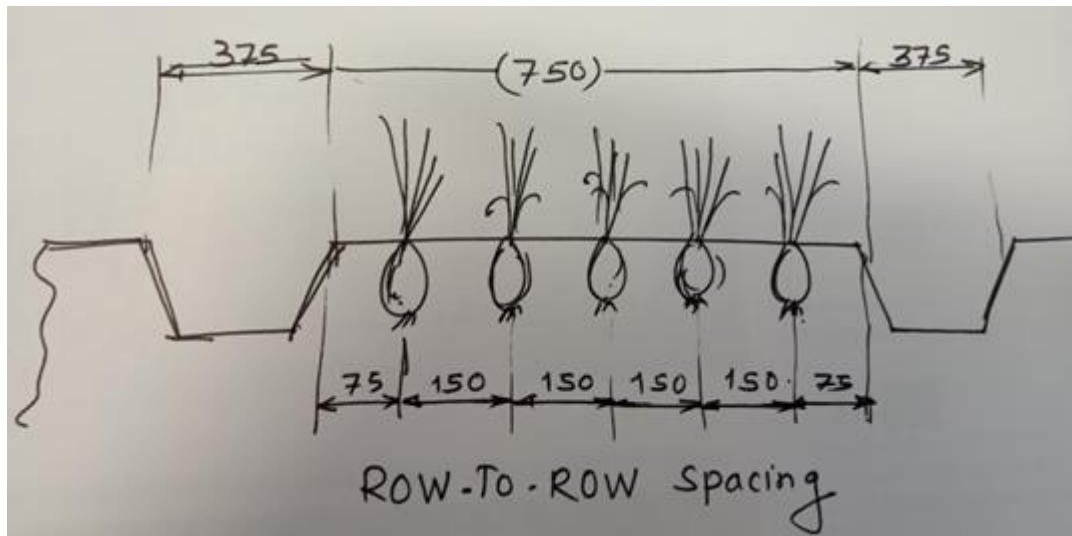
Every agri university has one or other variety developed in their region, Use local variety of your choice.

Plant Onion seedling as shown in image below...

Seedling will be planted in 5 rows on each bed at 0.15 m apart. (Row to row spacing)

Spacing for seedling transplanting: 0.15 m x 0.1 m

Quantity required- Seedling transplanting: 20 - 25 kg/acre.



Onion care...

Think of onions as a leaf crop, not a root crop

Do not put the soil back around the onions; bulb needs to emerge above the soil.

Once bulbs have started to develop, mulch with a light ½-inch layer of straw. Mulching help retaining moisture, suppress weeds,

To Allow air circulation, keep soil aeriated

Do regular weed removal

About one inch of water per square foot per week (including rainwater) is sufficient.

Be sure to water & maintain frequency. This helps to prevent onions from bolting, if plants are stressed then it will speed up development of flowers.

Harvest Onions...

When onions start to mature, the tops (foliage) become yellow and begin to fall over. At that point, bend the tops down or even stomp on the foliage to speed the final ripening process.

Loosen soil around the bulbs to encourage drying.

Harvest mature onions in dry conditions.

Approximate Size of onion will be 3 to 6.5 cm. (Diameter)

Approximate weight of onion 70-80 gm per bulb.

The maximum length of leaves ranges from 60 to 65 cm - partially lodged from neck of onion bulb.

