

CAULIFLOWER

i. Quality seedling production

Protected nursery

- The nursery area is covered with 50 per cent shade net
- The raised beds of 1m width and convenient length are formed
- The seedlings are raised in portrays
- The sterilized cocopeat @ 720 kg/ha is mixed with 10 kg of neem cake and *Azospirillum* and Phosphobacteria each @ 1kg.

Sowing

- ◆ About 250 g of hybrid cauliflower seed is required for the production of seedlings for 1 ha. The seeds are treated in hot water @ 50°C for 30 minutes.
- ◆ The seeds are then treated with bio-control agent *Pseudomonas fluorescens* @ 10g/kg of seed.
- ◆ The seeds are mixed with *Azospirillum* @ 100g/kg and are shade dried for half an hour.
- ◆ After 5 days when the seeds are germinated the portrays are arranged on the raised beds inside the shade net nursery.
- ◆ Watering is done by rose can everyday (twice / day) upto seed germination.
- ◆ Panchakavya spray @ 3% (30 ml/lit) is done at 15 days after sowing.
- ◆ 19:19:19 + MN @ 0.5 % (5g/lit) solution are drenched using rose can or micro nutrient spray of 0.5 % is done at 18 days after sowing.
- ◆ The cauliflower seedlings are ready for transplanting in 25 days.

ii. Planting

- ◆ The main field is ploughed 4 times using chisel and disc each at one time and cultivator two times.
- ◆ FYM @ 25t/ha is applied before the last ploughing.
- ◆ 75% of the total recommended dose of super phosphate i.e. 586 kg is applied as basal dose.

- ◆ *Azospirillum* and Phosphobacteria each @ 2 kg/ha along with FYM 50 kg and Neem cake @ 100 kg is applied before last ploughing.
- ◆ *Pseudomonas fluorescens* @ 2.5 kg/ha along with 50 kg of FYM and applied before last ploughing.
- ◆ Raised beds of 120 cm width are formed at an interval of 30 cm and the laterals are placed at the centre of the bed.
- ◆ Drip irrigation at field capacity is done for 8 to 12 hours depending upon the soil moisture level and soil type.
- ◆ Pre-emergence weedicide spray of Fluchloralin @ 1 lit a.i./ha or Trifluralin 0.5 lit./ha through high volume sprayer is done just before transplanting. The soil should be moist while spraying.
- ◆ Ropes are marked at the interval of 45 cm and planting is done at the spacing of 60 x 45 x 45 cm in the paired row system.
- ◆ 40 days old seedlings are dipped in *Pseudomonas fluorescens* 0.5 % for 30 minutes and are transplanted in the main field.
- ◆ Gap filling is done at 7th day after transplanting.



45 days old seedlings

iii. Fertigation Techniques

- ◆ Fertigation requirement for cauliflower F₁ hybrid is 200: 125: 125 kg of NPK/ha is applied once in every three days throughout the cropping period.

iv. Intercultivation

- ◆ Foliar spraying with *Pseudomonas fluorescens* 0.5 % at 15 days interval is done.
- ◆ Weeding is done on 30 DAP depending upon the weed growth.
- ◆ Micro nutrient mixture @ 250 g/ha (0.1 %) is sprayed at 40, 60 and 80 DAP.

v. Harvesting and Post harvest management

- ◆ Harvesting is done during morning or evening, when the curds attain the full size and are firm.
- ◆ The harvested curds are packed in the collapsible crates and are transported to market without damage.

