

Vegetable is of utmost importance in human diet. Vegetable production an integral part of agriculture production. Technical method of main crop grown in Rabi season is detailed below:

A. Potato: Seed Treatment

Size of the seed should be 3-5 cm. Treat the seed by soaking it in mancozeb (300 gm chemical in 100 liter water) for 30 minutes. This solution will be use full for 18-20 times. Urad -potato- moong crop system is recommended to earn maximum profit in potato based cropping pattern.

Sowing Time

Sowing time is from mid September to last fortnight of November. Do not use cut potato for seed production. If necessary, bulb must be treated and dry the seeds in shade for 2 hours. For early crop use 100:60:80 kg/hectare seed, for medium crop 120:60:80 kg/hectare and late sown crop, 150:60:100 kg per hectare nitrogen, phosphorous and potash.

Tomato

Cultivation of Azad P-2, P-3, Ka.Ta.-1,Azad P-5,Azad P-6, Kashi, Amrit. Narendra, hybrid variety such as Pusa hybrid-1, Pusa hybrid-2, Pant hybrid-1,2 KTH-1,2,NTTH-1,2 & 6, Rashmi, Rupali, Vaishali, raja, Laxmi, Krishna, Rangoli etc. can be done. 400-500 gm of improved variety and 150-200 gm per hectare seed of hybrid variety is sufficient. For protection against fungicides causing damage to the crop at the time of germination, spray of carbendasim 1 gm + thiram 2 gm per hectare seed results in more than 95% germination.

Planting Time

Second week of October

Fertilizer (Recommendation)

100:60:80 kg per hectare for improved variety
200:80:1000 kg per hectare for hybrid variety

Planting

Plant variety of unlimited growth at 60x60 cm and variety of limited growth at 45x45 cm.

Mosaic Treatment

Spray 200 ppm of sicosyl solution before 4-5 days of germination in nursery and repeat it after 25-30 days. In addition to this, spray metasystox (0.1%) 2-3 times in nursery and repeat this insecticide after 10-15 days.

विशेष :

फैलने वाली संकर प्रजातियों को मेड़ पर रोपित करे तथा बांस व लकड़ी आदि से सहारा दें।

B-Cauliflower

Variety

Early sown Pusa Deepali, Samar King, Pant Shubra

Medium Improved Japani, Pusa Snowball

Late sown Pusa Snowball K -1, Pusa Snowball -1, Pusa Snowball -16

Hybrid Variety

Pusa Hybrid -1, Himani, Hemlata Ujjawala, Madhuri, Samar King.

Sowing

Complete the sowing of early variety from mid June to July first week and medium and late Variety should be done by July and August.

For cultivation of cauliflower, spread well in the field 25-30 ton decomposed farm yard manure and 60:60:80 kg per hectare NPK before sowing and use remaining 60 kg nitrogen 2 times in standing crop after planting. Use of 10 kg per hectare borax and 2 kg ammonium molybdate with NPK result in good increase in yield. For control of root rot, use carbandasim 2.5 gm per kg seed and spread neem cake and trichoderma viridi in the field before planting.

D. Cabbage

Variety

Pride of India, Golden Akar, Pusa Mukta

Sankar Variety

Shri Ganeshan Gol, Stone Dead, Green Rani Gol, Kranti, Gautam, Bajrang, Krishna, Bio-Samrat.

Sowing

Early variety is sown from last week of August to 15th September. Medium and late variety is sown from mid September to whole October.

Fertilizer

120:60:60 Kg per hectare (For Normal Variety)

180:80:80 Kg per Hectare (For Hybrid Variety)

E. Vegetable Peas

Foliar spray of calaxin (0.1% solution in vegetable pea crop manages the powdery mildew disease and increases the production.

Early Sown Orcal, Azad P-3, Pusa Hans, Pant Vegetable Peas -4, Narendra Vegetable Peas -1,2 and 4

Medium Bonbila, Azad P-1, Azad P-4 (Disease Resistant)

Sowing Sow during the first week of November. Before sowing, treat the pea's seed first with thiram and carbandasim (2gm chemical/Kg of seed) and then with Raizobium Culture is considered beneficial. First irrigation is done just after flowering (30-40 days) and second after pod formation (60-65 days). For weed control, spray pendimethylene 3.5 liter pr hectare dissolved in 500 liter water after 3-4 days of sowing and before germination. Seed treatment with 10 quintal/hectare neem cake and trichoderma viridi (4 gm/kg seed) protects from ukatha disease. Ensure proper arrangement of water drainage.

F. French Bean

Panj Anamika, Pusa Parvati, Azad Rajma -1, Cantender. Sowing 80 -100 kg of seed per hectare in the mid to end of October is suitable. Apply first irrigation after flowering stage.

G. Onions

Kalyanpur Red Round, Pusa Ratnar, Agri Found , light red, agri found white. Hybrid Variety -Ex Kalivar, Burgundy, K.P. Orient, Rosi. 10-12 kg/hectare seed for normal variety and 4-5 kg/hectare for hybrid variety is sufficient for nursery.

Planting

Suitable time of sowing is November to January. Late sowing with reduce the yield continuously. Use 100:60:80 kg/hectare N.P.K. Spread half of the quantity of Nitrogen before planting and remaining quantity after 45 and 75 days of planting in standing crop.

H. Garlic

Yamuna white -3, white, Pant Lohit and Agri Found Parvati.

Sowing	From October till second week of November
Seed	7 - 8 quintal per hectare, Healthy buds
Sowing	100:60:60 kg per hectare N.P.K
Expenditure for garlic cultivation	Rs.50,000-55,000 thousand and net profit Rs. 40000-45000 per hectare.

I. Seed Spice

Cultivation of spices can be successfully done in doaba of Ganga-Yamuna. Important crop of spices are as follows:

Coriander Pant haritima, Azad dhanai-1

Saunf Azad saunf-1, Pant Madhurika

Menthi Pusa early Wanching, Pant ragini, Azad methi-1

Kalaunji Azad Kalaunji-1, Pant Krishna

Ajvine Azad jvine-1, Pant Ruchika and Local variety Soya-Azad, Soya-1

Sowing

Second fortnight of October

Remarks

Prepare the plant of saunf from 4-5 kg seed and plant in 1 hectare. This will yield good result.

For sufficient production of spice seeds, mix 50:30:30 kg/hectare nitrogen, phosphorous and potash in the field before sowing.