

HORTICULTURE CROPS

Ultra high density plantation of Mango

The Ultra high density planting system of Mango was developed by TNAU, Coimbatore during the year 2010-11 with an objective of achieving higher productivity and higher net returns per unit area. Mango is fetching low productivity and low income per unit area under traditional planting system with 40-60 plants/acre under spacing of 8-10X8-10m. Hence, Ultra high density plantation in Mango was established with 533plants/acre under spacing of 3x2.5m during the year 2012. The main objective is to popularize this technology among the mango farmers by enhancing the productivity and net income per unit area and, to create awareness about the package of practices to be followed.



Mango varietal block

In the district, Mango farmers are getting low income from local regular bearing varieties due to low market price during marketglut and also due to the adverse effect of climatic changes. Keeping the problem in the view, Mango varietal block was established to demonstrate 24 varieties with 250plants per acre at spacing of 4x4m during the year 2012-13. The DrYSRHU and IARI developed varieties along with local varieties of different utility were planted in two rows of five plants each. The main objective is to maintain Scion Mother block, to popularize the varieties with high yield potential, pest and disease tolerance and good market price.

Table varieties: Mallika, Sindhu, Ratna, Neeleshan, Swarna Jahangir, Manjeera, AU Rumani, Prabha Sankar, Dasheshari, Alphonso, Jahangir, Kalepad, Imampasand, Chinnasuvarnarekha, Baneshan, Neelam, Banglora, Peddakhadar

Juicy varieties: Chinnarasam, Panchadaarakalasa

Pickle varieties: Amlet, Rumani, Royal Special, Achari pasand.

Jamun block – Dryland fruit crop for additional income

In the recent years, Mango cultivation become unprofitable due to irregular fruit bearing by the effect of climatic change and market glut. In this view, demonstration of Jamun plantation was undertaken at KVK farm. Jamun was planted as alternate fruit crop to Mango under dryland fruit orchard gardening. FRS, Vengurla developed Bahadoli variety was planted at spacing of 5x5m accommodating 120plants/acre during the year 2016. The main objective is to promote Jamun as an alternate dryland fruit crop for additional returns, to maintain as scion mother block so as to supply planting material to the farmers and to create awareness about the package of practices of Konkan Bahadoli Jamun variety among the farmers.



PKM-1 variety Drumstick

PKM-1 drumstick variety was released by TNAU during 1979. Plants grow to a height of 4-6 m and come to flower in 90-100 days after planting. The first harvest starts 160-170 days after planting and on an average each tree bears 200-225 fruits / year. Pods are 65-70 cm long with 6.3 cm girth and 150 g weight. Fruits are green coloured and highly pulpy.

Drumstick PKM-1 variety was planted under ultra high density system at spacing of 3x3m accommodating 444plants/acre during Rabi 2022. The main objective is to popularize the variety among the farmers, to supply saplings and seed material to the farmers.



Dolichos Bean (Bush type) improved variety – Arka Amogh

Arka amogh, bush type improved variety of Dolichos Bean is medium tall and photo-insensitive released by IIHR. Pods are wavy, green, medium long and ready for harvest in 55 days.

Developed through Pedigree method of selection from F7 generation involving (Arka Jay X Arka Vijay) X (Konkan Bhushan). Pod Yield: 19-20 t/ha in 75 days.

Improved Arka Amogh variety of Dolichos bean was sown in paired rows at spacing of 60cmx45cmx30cm during Kharif, 2023. This demonstration was undertaken to popularize among farming community.



Dolichos Bean (Pole type) high yielding variety - Arka Krishna

Arka Krishna is photo-insensitive and early variety of Pole type released by IIHR. Pods are borne in clusters and dark green coloured. This variety developed through Pedigree method of selection from F7 generation involving IIHR 178 X Arka Swagath. Pod Yield: 30.0 t/ha in 120 days.

This variety was sown in trellis system at spacing of 45cmx30cm during Kharif, 2023. This demonstration was undertaken to create awareness about the performance of the improved variety Arka Krishna as new crop.



Improved varieties in French Bean

Arka Komal

This improved variety of bush type French bean released by IIHR. Plants are erect and bushy, photo-insensitive with flat, green straight pods. Good for transportation and excellent cooking quality. Pod Yield: 20 t/ha in 70-75 days.



Arka Suvidha

This improved variety of bush type French bean released by IIHR. Plants are bushy and photo insensitive. Pods are straight, oval, light green, fleshy, string less and crisp. Pod Yield: 19 t/ha in 70-75 days.



The above improved varieties of French bean were sown in mulching method at spacing of 30cm apart during Kharif, 2023. This demonstration was undertaken to create awareness among the farmers in the district.

N-53 variety in Onion

Improved dark red N-53 onion variety identified for its cultivation during Kharif and Rabi. Bulbs are medium in size (70-90g) with dark red colour. It can give bulb yields of 100-120 quintals/acre in about 140 days.

Improved N-53 variety of onion was sown in the raised beds at spacing of 10cmx10cm during Kharif, 2023. This demonstration was undertaken to create awareness about new variety among the farmers.



Grafted Brinjal

Ujala variety of grafted brinjal was planted at two different spacing levels of 180x75cm and 120x75cm during Kharif, 2023. This demonstration was undertaken to create awareness about grafted brinjal cultivation.



Nursery Production under Shade Net

Shadenet structure of 60X40 size was established during 2015-16 with an objective of raising and supply of seedlings of improved vegetable, fruit and flower crops to the farmers for commercial cultivation. The planting material of improved varieties of vegetables and flowers developed by IIHR, DrYSRHU and TNAU are being produced in the protrays filled with cocopeat under 50% shadenet conditions following proper management practices in the healthy nursery production. The produced material will be supplied by KVK to the beneficiary famers for demonstrations under different agencies. The required planting material of their own desirable variety will also be supplied on nominal cost basis.



Urban gardening under Shade Net

Shadenet structure of 60X40 size was established during 2022-23 with an objective of demonstrating the technology of growing vegetable and flowers in the grow bags of different sizes to meet individual family consumption as well as to create awareness about healthy and fresh vegetable production.



Demonstration of Cabbage and Cauliflower

The major cole crops being grown under cool moist climate conditions in the district are Cabbage and Cauliflower. The cabbage crop comes to harvesting within 120 days and yields about 250-350 quintals/hectare. The Cauliflower crop completes harvesting in 80-90 days can give yields of about 150-200 quintals per hectare.

Cabbage and cauliflower seedlings were transplanted in the raised beds at spacing of 60cmx45x45cm during late Kharif, 2023. This demonstration was undertaken to create awareness about cultivation of new crops among the farmers.

Arka Prajwal - High Yielding variety of Tuberose

Arka Prajwal Tuberose variety was released by Indian Institute of Horticulture research, Bengaluru during the year 2014. Prajwal is a Hybrid of Shringar x Mexican single. This hybrid bears single type white flowers on long stiff spikes (95 cm, 50 florets per spike). The flower buds are slightly pinkish in colour at tight bud stage while the flowers are white at floral bud opening stage. It can be grown upto three years. It yields 20-22t/ha/year.

In Tuberose, growers are getting low income from traditional variety due to its low yielding potential. IIHR developed Prajwal variety was demonstrated under paired row system at spacing of 60x45x30cm during Kharif 2022. The main objective is to popularize this improved variety among the floricultural farmers and to supply planting material to the Tuberose growers during growing seasons.



Arka Abhi Marigold variety

Arka Abhi is F₁ hybrid of African marigold identified for its attractive radiant lemon yellow colour. Flowers are large in size (7-8cm) with radiant bright lemon yellow colour (RHS Yellow group 5 A). It is high yielding F₁ hybrid with 10-11tons/acre with flowers having good shelf life (6-8 days). Improved Arka Abhi variety of Marigold was planted in paired rows at spacing of 60cmx60cmx30cm during Kharif, 2023. This demonstration was undertaken to popularize the variety among the farming community in the district.

