

**Demonstration of wilt resistant tomato variety Manuprabha with ICM**



Manuprabha, a high yielding tomato variety released by KAU was found to be resistant to bacterial wilt giving an yield of 365 q/ha

**Demonstration of 'Sampoorna' Secondary and Micronutrient Mixture for Banana**



**CPS level management of rhinoceros beetle in coconut using Metarrhizium anisopliae**



Application of metarrhizium solution in cow dung pit bringing down the growth of rhinoceros beetle grub population and also the attack. The supply of metarrhizium was done with the help of milk society.

**Prophylactic management of rhizome weevil and pseudostem weevil in banana**



By integrating different measures such as sucker treatment, pseudo stem trap and Nanma application the infestation of rhizome weevil and pseudo stem weevil could be reduced.

**Demonstration of shade tolerant Guinea grass 'CO (GG) 3' in densely planted coconut homesteads**



**Demonstration of topical application of Ceylon oak (Schleichera oleosa) oil for ecto-parasite control and to heal bite injuries**



**Other Programmes**

**Nutri garden**



For promotion of nutria-gardens in the cluster villages adopted by KVKS, 25 household covered with a fund of Rs.1000 for each household

**District Agro Meteorological Unit**

In collaboration with ICAR and IMD District Agro Meteorological Unit for Malappuram district was established at KVK Malappuram. Weather forecast and Agro advisories are prepared for Malappuram district as well as for all blocks in both English and Malayalam in every week. The agro advisories are disseminating through mail (Krishibhavans), Whatsapp and Facebook page of KVK Malappuram.

**Trainings**

During the period 118 trainings were conducted to farmers, youth and extension personnel and the number of trainees were 6659. Apart from this On Job Training on Micro Irrigation Technician for II year VHSE students of GVHSS, Mananthavady & KMG VHSS Tavanur was conducted for 4 days

**Production of technical materials**

Items	2019-20
Vegetable seed (Kg)	1017
Planting materials (Nos)	1,16,062
Pheromone traps (Nos)	1638
Bio products (Kg)	41,009

**Visit to landslide affected site Kavalappara, Nilambur**



**Monthly Technology Advice**

Harithasandesham, the Monthly Technology Newsletter of ATMA vetted by KVK scientists reached nearly 8000 farmers every month.

**Technical content developed**

To support the crop health management scheme implemented by Dept. of Agriculture, KVK developed and distributed technical content as roll up exhibits, 3x2 charts and laminated photos on IPDM, INM and soil health management technologies. The materials reached 54 institutions spread over 9 districts.

**Publications and Electronic media**

KVK Malappuram has published 7 technical bulletins namely Vila arogya paripalanam- Nenu (Rice), Vila arogya paripalanam -Thengu (Coconut), Vila arogya paripalanam -Vazha (Banana), Vila arogya paripalanam -Sugandhavila (Spices), Vila arogya paripalanam - Pachakkari (Vegetables), Sasya samrakshana sahayi- Nenu and Sasya samrakshana sahayi- Pachakkari. KVK also designed and developed an educational video CD on Cashew cultivation

**Externally Funded Projects**

The activities of KVK were strengthened by the support of external aided projects for Rs. 25.249 lakhs

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**VAIGA 2020**

KVK Malappuram introduced value added products of lotus and betel vine in VAIGA 2020- International workshop and exhibition from 4th to 8th January 2020 organized by Government of Kerala with the support of Government of India & other allied sectors in field of agricultural development. Honorable Vice Chancellor of Kerala Agricultural University Dr. R. Chandra Babu, Adv. K. Rajan (MLA Ollur), visited the stall.



**Team KVK - Promoting Innovation platforms**



**Swachhta Pakhawada**

Celebration of Swachhta Pakhawada on theme 'Plastic Se Raksha - Swachhata Hi Suraksha' were undertaken in KVK Malappuram on 02nd October 2019. Awareness on water conservation methods, drainage methods, prevention of soil erosion etc in context of swachhata pakhawada were given by Scientists of KVK Malappuram to farmers.

**Fertilizer Awareness Programme**

Awareness programme on balanced fertilizer application were held at KVK Malappuram on 22nd October 2019. Dr. P.V. Habeeb Rahman delivered class on balanced fertilizer application to farmers. A total of 100 farmers participated in the programme.



**World Soil Day**

In view of sensitizing farmers and public on the importance of soil health and its management KVK celebrated soil day on 5.12.2019 in KVK Malappuram. The inauguration was done by Smt Lakshmi, Ponani Block Panchayath



"If agriculture fails, everything else will fail"

-M.S. Swaminathan



In order to meet the demands of the farmers and to be self reliant in mushroom mother and bed spawn production, Mushroom demo cum production unit at KVK was expanded from 30 beds to 75 beds

### Farmers' Day

Farmers day was celebrated on 17th August 2019 at KCAET college auditorium. The programme was inaugurated by Shri. K.P. Abdul Nasar, Grama Panchayath President. Best farmer in Malapuram District was honoured and session on Kissan credit card was also carried out as part of the programme.



### International Yoga Day

International Day of Yoga was celebrated on 21st of June 2020 and KVK Malapuram was also a proud participant. The objective of observing IDY is to remind the people about the benefits of Yoga and to build enduring public interest by highlighting its importance and contributions to public health. Total 25 staff from KVK, KCAET and Engineering Division participated in the programme. A Yoga demonstration was conducted by Dr. Gopalakrishnan (Yoga teacher).



### Launching of NADCP for FMD & Brucellosis

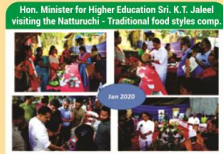
Launching of National Animal Disease Control Programme (NADCP) for FMD & Brucellosis and National Artificial Insemination Programme was held on 11th September 2019. Conducted workshop at KVK Malapuram in collaboration with District Animal Husbandry Dept. on the topic "Vaccination and Disease Management and Artificial Insemination and Productivity."

### RAWE

Rural Agricultural Work Experience programme was conducted at KVK Malapuram on 23rd to 28th September 2019 for students of College of Horticulture and also conducted village stay module on 10th January 2020. As part of this field visits, training programmes were also undertaken. Demonstration of organic fertilizer through drones at Edappal Manoor Kalya was also organised as part of the RAWE programme



KVK introduced the first drone spraying in rice in Malapuram district - Jan 2020



### Farmer participatory Production of planting materials in tubers

The KVK initiated farmer participatory production of planting materials of tapioca and sweet potato. Tapioca varieties of 906, Hraswa, Sreeraksha and Pavithra and sweet potato varieties Kanhangad, Sreerandhi, Kanaka, Nandini and sreerandini were distributed to 13 farmers

Tuber crops planting material-Farmer participatory mode initiated in Oct. 2019



### Floriculture promotion initiatives

The KVK received 10 lakhs project from the Dept of agriculture and farmers welfare for initiating quality planting materials to promote floriculture within the district.



### Collaborative Programmes

In association with Matrubhumi KVK organised a district level training on organic farming at Kodur, Malapuram



### KVK-District Admn-KFRI workshop on eco restoration of landslide affected areas

In association with the District administration and KFRI, a workshop on prospects of linking NREGA for eco restoration of landslide affected areas was organised at the District Panchayath hall, Malapuram.

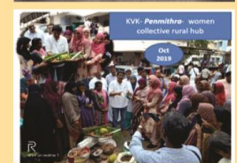


Hon. M.P. inaugurates the KVK - District admn.KFRI Seminar on linking KGNREGA to land stabilisation

### KVK-NGO linkage to resurrect rural marketing channels

In order to resurrect the old village marketing channels, KVK colla-borated with NGOs, Penmitra at Changaramkulam and Vandana, Thavanur and organised joint rural hubs. Three of such hubs were organised before Covid 19 outbreak.

KVK-NGO linkage old village market resurrected at Thavanur



### On farm trials

#### Assessment of granular dolomite in managing soil acidity of rice fields



Less quantity is required of granular dolomite, top dressing @ 1 MAP is easy in granular form. Yield and crop health more with granular dolomite.

#### Assessment of short duration heat tolerant pulses in rice fallows



Green gram (Var. CO-8) gave better yield in summer fallows. Giving yield of 4.5q/ha within 60 days

### Assessment of different Bhindi varieties/hybrids



COBLH variety found to have high yield and yellow vein mosaic resistance

### Assessment of coir pith wick for wick irrigation system



The performance of coir pith wick is on par with glass wool and cotton wick. It is very cheap, easily available and eco friendly material, so we can suggest it as an alternative for glass wool and cotton wick.

### Assessment of litter raking machine in poultry sheds



Sanitation difficulty in poultry sheds

### Assessment of fodder grass and fodder cow pea inter cropping in coconut based homesteads



Variety Geethika found to be the ideal vegetable cowpea variety sustainable for Malapuram among different varieties tested. Also found to be tolerant to mosaic disease in farm.

### Front line demonstrations

#### Precision farming techniques & bunch covering equipment for high quality bunches in Banana



Received good yield with less water and fertilizers, good quality bunches with less effort. No weed growth in bed that reduced the cost of cultivation

#### In-situ moisture conservation measures in coconut garden



Rain pits and mulching improves the moisture content in the soil and also increase the water level in the well. It also improves the crop not only the coconut, all other crops in the homesteads.

#### Management protocol for enhancing income from coconut



Application of dolomite, soil test based nutrient management, husk buril and introduction of Amorpho-phallus intercrop in coconut garden was recorded an net income of Rs.1.47Lakh per ha to the farmer.

#### Demonstration of ICM practices in short duration turmeric variety ISR Pragati



ISR Pragati, a high yielding short duration turmeric variety (180 days) was found to be high yielding giving an yield of 225q/ha within 180 days duration.