



### Fortnight Focus

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## From Vice-Chancellor's Desk

### ROOTSTOCKS IN HORTICULTURE

The important role of rootstocks on the growth, yield and quality of fruit crops are widely recognized. Rootstocks provide cultivars with useful tool to manipulate the vigor and production of orchard trees. A successful rootstock should have compatibility with scion besides having tolerance against prevalent biotic and abiotic stresses.

At present many rootstocks have been evaluated and used for horticultural performance and resistance to biotic and abiotic stresses. Some of the classic examples are Rough Lemon has been found most vigorous with tolerance to Citrus Tristeza Virus (CTV), Citrus Exocortosis Virus (CEV) and Xyloporosis whereas, Rangapur lime performs well under saline soil and drought conditions with fair degree of resistance to CTV. Cleopatra and Carrizo Citrange have been found drought and cold tolerant. Trifoliolate orange and wood apple showed dwarfing effects with resistance to Phytophthora root rot disease. In grape, Salt Creek, Teleki 5-a, 1613 and Dogridge for resistance to nematodes and the latter as well as 110R showed tolerance to salinity and sodicity. Sapota on rayan (khirni) roots is the best combination in respect of plant vigour, productivity and longevity.

Grafting is also useful technique in protecting certain solanaceous vegetable crops from soil borne diseases, nematodes and abiotic stresses like salinity, flooding and drought. Some of the vegetable crop varieties, wild relatives and intra and inter-specific hybrids have been tried and many have shown to be valuable as rootstocks for tomato and brinjal in specific combinations and for defined environmental stresses.

Citrus Research station at Tirupati and Petlur and Horticultural Research Station, Mahanandhi under Dr.YSRHU are concentrating on production of virus free sweet orange, plant material grafted on Rangapur lime rootstock with virus indexing protocols.

*T. Janakiram*  
**Dr T.Janakiram**  
**Vice-Chancellor**

## The Events

### Birth Anniversary of Tanguturi Prakasam Pantulu

On 23 August 2021, all the constituent Colleges, Research Stations and KVKs of the University celebrated Andhra Kesari Late Sri Tanguturi Prakasam Pantulu Jayanthi by paying floral tributes.



### Towards Mou with TTD

Dr. T. Janakiram, Hon'ble Vice-Chancellor along with Dr.B. Srinivasulu, Director of Extension attended a meeting with Executive Officer & other officers of TTD with regard to MoU with Dr YSRHU on "Establishment of Training Centre for Making Value Addition to Worshipped Flowers" on 18 August 2021.



## Education

### NSS Activities

Planting of jack grafts was taken up by the staff on 19 August 2021 in the nursery block at CoH, Anantharajupeta



Fit India Freedom Run was conducted by NSS cell on 21 August 2021 as a part of Azadika Amruth Mahotsav - India @75 celebrations for 2km at CoH, Anantharajupeta.



## Research

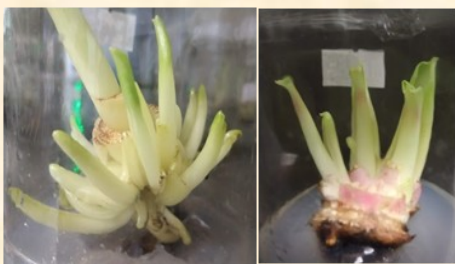
Dr. L. Mukundalakshmi, Dr. D. Srinivas Reddy and Dr. T. Rajasekharam, CRS, Tirupati collected indigenous high yielding acid lime clone, canker free fruits on 12.08.2021 from farmer's kitchen garden, Sri. Ravi Verma garu, V.P. R. Kandriga village (13.92 19° N, 79.34 48 °E), Railway Kodur Mandal, YSR Kadapa District after in-situ evaluation since three years.

- Average wt. of fruit = 37.40 g
- Rind thickness 2.09 mm
- No. of seeds- 6 nos
- Juice: 28 percent
- Acidity: 8 mg per 100 g
- Brix: 8.13°



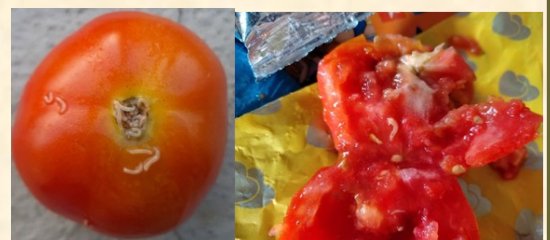
Severe infestation of flower beetle, *Lycostomus praeustus* (Lycidae: Elateroidea, Coleoptera) was noticed by Dr. D. Srinivas Reddy, Senior Scientist (Entomology), CRS, Tirupati during flowering in first fortnight of August-2021 in Pileru region of Chittoor District on Apple ber cultivar damaging flowers and leaves, but being more concentrated on flowers causing greater damage to the extent of 20-30%. The adult beetle fed on floral parts and reduced the fruit set to an extent of 35-40%. The incidence coincided with the flowering period and control measures were suggested. Similar damage by this pest was noticed way back in 2000 in Tirupati region on Ber.

Dr. K. Ravindra Kumar, Senior Scientist (Horticulture) proceeded to Seethanagaram, Vizianagaram District on 16<sup>th</sup> August 2021 to identify and collect the banana accession located in the high school premises based on newspaper information. After tallying with the minimal descriptors, the genotype was identified as banana cv.Ayaranka Rasthali and suckers were collected from the identified plant and planted in the grow bags for further evaluation.



Banana cvTellaChakkerakeli and Red banana (AAA) were successfully initiated with only 12.3% microbial contamination by treating the suckers with 200 ppm Cefotaxime and incorporating Plantomycin 200 ppm in the culture media. Achieved highest shoot proliferation in C<sub>1</sub> cycle by incorporating media with 25 mg/l Adenine sulphate to the earlier standardized media and incubating the cultures in dark.

Phylogenetic tree constructed from identified fruit flies in tomato compared with fruit flies of NCBI DNA sequence data based on neighbor -joining method using MEGA 7.0 software.



The recent worries by tomato growers in Chittoor District to fruit damage made Dr.YSR Horticultural university to initiate the survey of tomato fields in Chittoor district. Severe infestation of fruitflies was noticed in Chinnagottigallu, Bhakrapeta, and Rompacherla and Madanapalli areas. The damage was to an extent of 15-35%. Though the farmers installed methyl eugenol fruitfly traps, but still the damage continued. The specimens were collected by Dr. D. Srinivas Reddy, Sr.Scientist(Entomology) and fruitfly species were identified at ICAR-NBAIR. In total, three specimens from different mandals turn out to be melon fruitfly, *Zeugodacus cucurbitae* and one specimen is Pepper fruitfly, *Atherigona orientalis*. These specimens were submitted to NCBI for receiving unique accession ID numbers. The following are the IDs received from NCBI.

SUB8641859 Seq1S MW300732 *Atherigona orientalis*  
 SUB8641859 Seq2S MW300733 *Zeugodacus cucurbitae*  
 SUB8641859 Seq3S MW300734 *Zeugodacus cucurbitae*  
 SUB8641859 SeqTF MW300735 *Zeugodacus cucurbitae* (TF)

KY113291  
 KY113290  
 KY113312  
 KY113314  
 KY113315  
 MW300735 *Zeugodacus cucurbitae*  
 MW300733 *Zeugodacus cucurbitae*  
 MW300734 *Zeugodacus cucurbitae*  
 JN298077  
 MW300732 *Atherigona orientalis*  
 MG708363  
 MG708362  
 MG708361  
 MG708360

0.020



Dr. K. UmamaheswaraRao, Senior Scientist (Hort.), and Dr. B. Nagendra Reddy, CRS, Bapatla visited Bethapudi village, Bapatla Mandal, Guntur District and distributed the minikits of chilli seed varieties LCA- 657, LCA- 680 and LCA- 643 developed by Horticultural Research Station, Lam Farm, Guntur on 6 August 2021.



Scientists of CRS, Bapatla distributed the Crossandra seedlings of Arka Chenna, brought from ICAR- IHR, Bengaluru to the identified farmers at Bethapudi and Kavurivaripalem of Bapatla Mandal on 13 August 2021.

## Extension Activities

### Vice-Chancellor to Village Activities

Dr. K. Swarajyalakshmi, Professor (Hort), Dr.Ch.Ruth, Professor (Pl. Path), Dr.Firoz Hussain, TA Fruit Science, Dr.Nalini, TA (Ento) visited RBK in adopted village, Venkatareddipalli, Kodur (M) on 19 August 2021 and explained the farmers about the management practices, plant protection measures to be adopted in mango orchards through powerpoint presentation. Sarpanch, Panchayath Secretary, RBK incharge, progressive farmers have also participated in the program along with women farmers.



Dr. K. Swarajyalakshmi, Professor (Hort), Dr.Ch.Ruth, Professor (Pl.Path), Dr.Firoz Hussain, TA Fruit Science, Dr.Nalini, TA (Ento) visited RBK in adopted village, Venkatareddipalli, Kodur (M) on 19 August 2021 and addressed the gathering of Rural women and school children

in NVS colony, H/o Venkatareddipalli. Explained and practically demonstrated the flower bouquet and different types of garlands making. Distributed pamphlets on Value addition of flowers and foliage material. Sarpanch, Panchayath Secretary, RBK incharge, progressive farmers have also participated in the program along with women and school children.

Dr.L.Ranjith Kumar, Scientist (Entomology) of Citrus Research Station, Petlur visited the adopted village of G.K.Palli, Venkatagiri Mandal on 25 August 2021 as a part of “Vice-Chancellor to village” and conducted training programme on “Insect Pest Management in Acid lime”. The farmers were briefed about the insect pests infesting acid lime at different stages of crop growth and their control measures along with the role of sticky traps in pest management. Distributed blue sticky traps for the management of thrips in acid lime and the farmers were stressed upon to avoid use of spurious pesticides.



Dr.R.Nagaraju, Principal Scientist (Hort) & Head, Dr. L. Mukunda Lakshmi, Senior Scientist (Hort) and Dr. D. Srinivasa Reddy, Senior Scientist (Ento), CRS, Tirupati visited adopted village of Adapareddipalli, Durgasamudram post, Tirupati Rural mandal to know the efficacy of fruit fly traps in guava and conducted training programme on Mango on 28 August

2021.

As a part of VC to Village programme, Dr. T. Naga Lakshmi, Scientist (Pl. Pathology), Dr D. Sreedhar, Scientist (Horticulture), and Dr. Y.Sharat Kumar Reddy, Scientist (Pl. Physiology), HRS, Anantharajupeta visited adopted village Baliraddy palli and delivered a lecture on cultivation aspects of Banana, Papaya and Turmeric. Method demonstration was conducted on preparation of *Trichoderma* for application in the field on 27 August 2021 .



As a part of VC to village programme an awareness programme on nematode management in guava was conducted in adopted village Ramannagudem on 17 August 2021. Dr. P. Rama Devi, Principal Scientist (Pl. Path.) explained the symptoms of nematode infestation and control measures to be taken up, followed by field visit to guava orchards.

On 18-08-2021, under “Vice chancellor to Village programme” Dr.B.Vijayasree, Research Associate (Home Science) conducted distribution of Pearl millet (Bajra – APB-04) and Finger millet (Vakula variety) to the beneficiaries in the adopted village of Siddavaram of Venkatagiri mandal as part of FLD programme. The programme was conducted to acknowledge the women farmers about the importance of millets and to enlighten on the FSN (Farming system for Nutrition) model and Agri nutri smart farming which is an inclusive model of both cereal and millet cultivation to address the nutritional needs of farm families.



On 25 August 2021, KVK, Pandirimamidi conducted Grama sabha at adopted village i.e. Thimmapuram village of Addategala mandal and the chief guest, Director of extension, Dr. B. Srinivasulu, addressed the farmers about the importance of VC to Village programme and citrus year-2021. Also visited RBK, Thimmapuram , interacted with RBK staff (VAAs, VHAs, VSAs, AHAs etc.) and provided posters on horticultural crops, Udhyana panchagam and other KVK publications to the RBK staff to provide technical support. In this programme, RBK staff, KVK staff and 53 farmers have participated.



### Dr.YSRHU Year of Citrus 2021-22 Activities

On 26 August 2021, as a part of Dr. YSRHU Year of Citrus, Dr. K. Venkata Subbaiah, Scientist (Horticulture) and Dr. A. Devivaraprasad Reddy, Scientist (Fisheries) explained about Processing Technologies for Acid lime and demonstrated acid lime squash preparation at East Regulakunta village. Later distributed acid lime seedlings to tribal women.



### Parthenium Awareness Week

From 16 to 22 August 2021, KVK, Pandirimamidi and Vonipenta conducted Parthenium Awareness Week programme. As a part of the programme, parthenium weeds were removed and destroyed that



were present at surroundings of KVK institutional farm and also created awareness on ill effects of Parthenium on health of crop plants, farm animals and workers.

### AzadiKaAmruth Mahosthav

On 26 August 2021, AzadiKa Amruth Mahosthav was celebrated at all the KVKs of Dr.YSRHU with the theme of “Food and Nutrition for Farmers”. Hon’ble Sri.Narendra Singh Thomar, Union minister for Agriculture’s message was live casted to farmers.



## Method Demonstrations

As a part of implementation of transfer of ICAR-AICRP citrus technologies through SCSP programme, Tirupati centre, beneficiaries adopted pruning practices from 17 to 20 August 2021 using secateurs and pruners supplied by DrYSRHU to initiate early vegetative growth and flowering in sweet orange.



Smt.T.Vijaya Lakshmi, Senior Scientist (Pathology) and Dr.A.Rajani, Senior Scientist (Hort), HRS, Lam conducted method demonstration on multiplication of *Trichoderma viride* in farm yard manure for application in chilli and other vegetable crops on 19 August 2021.

Standardization of procedures for production of infused honey products with horticultural produce was taken up by Dr. E. KarunaSree, Principal Scientist & Head and Mr. G. ShaliRaju Scientist (Entomology) in Integrated Bee Development Center, KVK, Venkatarmannagudem. Procedures for production of Lemon Honey, Ginger Honey, Masala Honey, Tulasi Honey, Amla Honey and Dry fruit Honey were standardized by using hedonic scale and the products are ready for commercial marketing through the Processing and Skill Training Centre, Venkataramanagudem. The products are ready for commercial use through ARYA programme of KVK, Venkataramannagudem under Apiary enterprise.



On 17 August 2021, Sri Bhanumurthy K.C, Scientist of KVK, Pandirimamidi visited demonstration of Multiple cropping in cashew demo plot under FLD at Rajampalem village of Ganagavaram mandal. Brinjal intercropped in cashew is 45 days old at flower initiation stage. Observed wilt and suggested remedial measures.

## On Farm Trials

On 27 August 2021, KVK, Pandirimamidi has conducted follow-up visit to bhendi fields at I. Polavaram village of Rampachodavarm mandal under OFT on “Assessment of YVMV resistant bhendi hybrids in East Godavari district”. The fields are at flowering stage. Dr. P. Lalitha Kameswari, Principal Scientist and Head and Dr. S. Adarsha Scientist (Entomology) coordinated the visit.



On 18 August 2021, Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta initiated the OFT entitled “Evaluation of organic package yield in Paddy” at Khadarpalli village of Chepadu mandal. Explained the organic package in paddy *i.e* application of FYM @ 4 t/ac and Vermicompost @ 1 t/ac, cultivation of green manure crop, application of 500 kg neem cake and liquid Bio-fertilizers (*Azospillum* and PSB)

On 25.08.2021 Dr.B. Srinivasulu, Director of Extension, Dr. YSRHU visited OFT fields (Assessment of soil test based nutrient management in tapioca, Assessment of ridge gourd varieties in agency area) and FLD fields (Demonstration of bunch management in banana, Demonstration of exogenous application of plant nutrients and growth regulators for yield enhancement in rainfed cotton, Demonstration of high yielding brinjal var. Arka Harshitha in tribal area and Demonstration of high yielding tapioca variety PDPCMR-1 in tribal area) at Thimmapuram village of Addateegala mandal and Rajampalem and Gangavaram villages of Gangavaram mandal and interacted with beneficiary farmers and has given suggestions on yield improvement aspects. Also provided tarpaulin sheets to the 10 beneficiary farmers from Rajampalem village of Gangavaram mandal under TSP 2021-22.



### SCSP Programmes

Dr. K. UmamaheswaraRao, Senior Scientist (Hort.), CRS, Bapatla distributed the neem cake and neem oil to the beneficiaries under SCSP sponsored by ICAR- DCR, Puttur for area expansion programme of cashew on 25.08.2021 at Gangavaram (vil), Rajavaram Panchayat, Koyyalagudem, West Godavari District.



Installation of Fertigation system in SC beneficiaries Citrus orchards at Chiyyedu Village of Ananthapuram Rural (Mandal) in Ananthapuram District, Andhra Pradesh to demonstrate AICRP tech-





## Training Programmes

Dr.C.Venkata Ramana, Senior Scientist (Hort), HRS, Lam attended farmers awareness programme to chilli farmers at Nadikudi of Guntur dt on 24 August 2021 organised by Spices Board, Guntur

Dr K Mamatha, Principal Scientist (Horticulture), HRS, Peddapuram explained about the improved varieties, pest and disease management in cassava and sweet potato to the fertilizer and pesticide Dealers of East Godavari district under DESI programme on 16 August 2021



Dr. B. Ramesh Babu, Senior Scientist (Horticulture), HRS, Venkataramannagudem delivered one lecture on “Production technologies of Sapota and Guava” to the fertilizer and pesticide dealers of East Godavari dist. under DAESI, 2021 on 22 August 2021.

Dr. P. Rama Devi, Principal Scientist (Pl.Path), HRS, Venkataramannagudem delivered a lecture on “Production technology of Medicinal & Aromatic plants” under DAESI, 2021 on 29 August 2021.



On 17 August 2021, Dr. E. KarunaSree Principal Scientist and Head, Dr. K. VenkataSubbaiah, Scientist, Horticulture and Dr. A. Devivaraprasad Reddy, Scientist (Fisheries) have conducted training program on Processing and Value addition of major crops i.e Banana, Chilli, Tamarind, Maize and Acidlime, Post-Harvest technology of Horticultural crops, Integrated Farming Systems to field level functionaries of Van Dhan

Vikas Kendras (VDVKS) under ITDA, K.R, Puram, West Godavari District.

On 24 August 2021, KVK, Venkataramannagudem conducted a training program on “Bunch management in Banana”, in which farmers were enlightened on importance of micronutrients, Sulphate of potash and covering of banana bunch with transparent sheet for improving bunch weight and quality. Inputs for FLDs in banana and oil palm were distributed to tribal farmers. Dr. K. Venkata Subbaiah, Scientist (Horticulture) coordinated the programme.



On 25 August 2021 Sri. G. ShaliRaju, Scientist (Entomology), KVK, V.R.Gudem attended as resource person in Bhumi Poshan Abhiyan at Soil Testing Laboratory (STL), T.P.Gudem. In this programme enlightened the importance of Bio-fertilizers, organic manures & micronutrients in soil health management to ADAs, AOs & District Advisory Board members.

On 26 August 2021, KVK, Venkataramannagudem conducted a training programme on “Food and Nutrition for Farmers” in adopted village Ravigudem and created awareness to farmers about balanced diet and nutrient rich foods to boost immunity. Later distributed the acid lime, custard apple plants and cowpea seed to tribal farmers. Dr. E. KarunaSree, PS and Head, Dr.V.Deepthi, Scientist (Agricultural Extension) coordinated the programme.



On 27 August 2021, Dr. K. VenkataSubbaiah, Scientist (Horticulture) and Dr. A. Devi vara Prasad Reddy, Scientist (Fisheries) participated as resource person in District level Training of Trainers (ToT) program to ADAs and MAOs from each division to strengthen the RBKs, organized by the District Resource Centre, West Godavari. Explained about simple, Reliable and cost effective post-harvest technologies related to major Horticultural crops grown in the district for entrepreneurship development in West Godavari district by Dr. K. VenkataSubbaiah. Dr. A. Devi VaraPrasad Reddy explained about the importance of Aqua culture Production and economics. One District One Product (ODOP) concept for West Godavari District was also discussed among the stakeholders.



KVK, Venkataramannagudem conducted one day training on “Nutri Gardens and Nutri Crops” on 19 August 2021 at KVK, Venkataramannagudem to 32 tribal women from East Rekulakunta and Uppalapadu villages. Explained about the concept of “Mana Gramam-Mana Poshana Thota” community Nutri Gardens in tribal villages and motivated to establish one garden in each village with the help of the youth and school children in the village and in co-ordination with TANAGER, NGO working in Buttai-gudem mandal. Taken to the circular Nutri-garden in university campus and explained about the production of year round leafy vegetables for nutritional security. Distributed kitchen garden kits and nutri-plants i.e acidlime, custard apple, West Indian cherry, Sweet Potato (Orange fleshed), Anjeer for Community Nutri-garden in their villages as a part of the FLD programme for the year 2021 -22. Dr. E. KarunaSree Principal Scientist and Head coordinated the programme.

On 17 August 2021, KVK, Periyavaram conducted Training Program on Establishment of Nutrigardens through Organic Cultivation at RBK, Dakkili to Extension functionaries (MCRPs,PRPs and ICRPs) of AndhraPradesh Community based Natural Farming – Rythu Sadhikara Samstha, Dept.of Agriculture, Marlagunta Cluster, Dakkili (M),Venkatagiri division, SPSR Nellore district. The participants are provided with



awareness on importance of nutri garden and its establishment to meet the recommended dietary allowances of vegetables, fruits and leafy vegetables in the diet to reduce micro nutrient deficiencies and malnutrition among women and children in rural areas. Dr.B.Govindarajulu acknowledged the participants on importance of organic cultivation in establishment of Nutrigardens and also enlightened on horticultural crops like papaya, acid lime and moringa in every village to promote good nutrition for women and children in rural areas. Distributed Vegetable Seed kits (IIHR, Bengaluru) to the participants. Later visited Marlagunta and Ambedkar nagar villages of Dakkili Mandal and interacted with women beneficiaries of homestead nutrigardens and distributed Arka Vegetable Special. In this programme Sk.Muneera, IBMT and team have participated. Dr.B.Govindarajulu, Principal Scientist (PP) & Head and Dr.B.Vijayasree, Research Associate (Home Science) coordinated the programme.

On 23 August 2021, Dr.B.Vijayasree, Research Associate (Home Science) attended as Resource Person on the topic “Nutrition and Health Education to the Adolescent girls in rural areas”, for the programme conducted by Common Service Centre (CSC), e-Governance services India Ltd, “Stree Swabhiman yojana” under the Ministry of Electronics and Information Technology, Government of India – Digital India, at Z.P.Girls High School, Venkatagiri. The adolescent girls of the school were acknowledged to create awareness on Nutrition education, Sanitation, Health and Hygiene aspects to build their knowledge, skills, and positive attitudes about Nutrition and health. The participants were enlightened on physical, mental, emotional and social health to improve and maintain their total health, prevention of diseases, reduce risky behaviors, maintain health and hygiene and to establish healthy eating behaviors in rural areas.



On 16 August 2021, KVK, Pandirimamidi conducted On campus training program on Importance of value addition in Jack fruit and addressed the SHG & VDK members about Production practices, improved varieties, value addition in jack fruit. Sri Bhanumurthy K.C, Scientist (Horticulture) coordinated the program. 56 SHG and VDK members of Rampachodavaram division have participated.

On 21 August 2021, Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta participated in farmers training program at Takollu village of Siddavatam mandal and explained the importance of seed treatment, nursery management, pest and disease management, soil test based fertilizer application and water management in Paddy and Turmeric. In this program DPD, ATMA, AO's from FTC have participated in this programme.



On 27 August 2021, Dr. V. Nagarjuna, Research Associate (Soil Science), Dr. Srividhya Rani N, Scientist and Head (Extension), Dr. V. Yugandhar, Research Associate (Horticulture) Dr. S. Lavanya, Research Associate (Veterinary Science) and K. Prasadhu, Research Associate (Plant Pathology), KVK, Vonipenta, conducted on campus training programme to the farmers on water conservation methods under Jala Shakti Abhiyan programme. The scientists explained the intensive moisture conservation methods *i.e.* live mulching, straw mulch and mechanical conservation methods *i.e.* contour bunds, graded bunds and grass water ways.

### Diagnostic Visits

Smt.T.Vijaya Lakshmi, Senior Scientist (Pathology) and Dr.A.Rajani, Senior Scientist (Hort), HRS, Lam conducted field visit to vegetable fields with drip and mulching (tomato, chilli, cucumber, little gourd and ridge gourd) and suggested the plant protection measures during initial stages and nutrient management on 19 August 2021.

Dr. K. UmamaheswaraRao, Senior Scientist (Hort.), CRS, Bapatla attended the cashew rejuvenation demonstration at Garudabadra village of Vajrapukothuru mandal, Srikakulam district and have shown the pruning of old cashew trees in the farmers field namely Sri. K. KurmaRao on 19.08.2021 and also explained the fertilizer schedule for cashew plantation.



Dr.L.Ranjith Kumar, Scientist (Entomology) from CRS, Petlur, conducted field diagnostic visit of acid lime orchard at G.K. Palli village of venkatagiri Mandal on 25 August 2021 and observed that the orchard was infested with Green mite and the farmer was suggested to spray Propargite 57 % EC @ 1.0 ml/l of water at new leaf emergence and Pea size stages of crop growth.

Dr.G.Ramanandam, Principal Scientist (Hort.) & Head, HRS, Kovvur conducted field visit on 27 August 2021 to villages viz., D.Bhimavaram, Pandirimamidikota and Ivampalli of Maredumilli mandal in the ITDA jurisdiction , Rampachodavaram and distributed Banana Tissue culture plants and other inputs (Neem cake, SSP, Bio fertilizers, Hebicides and Fungicides) to the identified tribal farmers under TSP and also visited demonstration plots and demonstrated desuckering and fertilizer application for higher yields in Banana.



On 25 August 2021, Dr. P. Rama Devi, Principal Scientist (Pl. Pathology) & Dr. D. Aparna, Senior Scientist, (Hort) distributed 2000 rooted cuttings of betelvine variety SwaranaKapoori to five farmers of Chintalapudi&Mulukuduru villages of Ponnur, mandal, Guntur district.

Dr. P. Rama Devi, Principal Scientist (PP)& Dr. D. Aparna, Senior Scientist, (Hort) visited vacant lands located around water pond in Narasayapalem village of Bapatla mandal on 25 August 2021 to suggest suitable medicinal plants for raising in vacant lands to meet the local needs of the village people. Upon their request suggested planting of medicinal plants like Amla, Agale, Limonia, Jamun etc. for spiritual purpose, Karonda, Amla, Tinospora, Mango etc. for income generation and Andrographis, Phyllanthus, Centella, Vattiver, Lemongrass, *Piper longum* etc. for local medicinal uses.



On 26 August 2021, KVK scientific staff visited Kamaikunta, Pandugudem and Lankapalli for monitoring ongoing technical programmes on Integrated Crop Management in cashew. Soil and Moisture Conservation in Cashew orchards by taking trenches for harvesting rain water. Suggested for application of organic manures.

On 18 August 2021, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited ginger fields for diagnosis of pests and diseases at Kothapalli village of Proddatur mandal. During the visit scientist observed the micro nutrient deficiency in ginger and suggested foliar application of micro nutrient mixture 5g/lit at 15 days intervals.



On 24 August 2021, P. Raja Sekhar, Scientist (SS&AC) and K.C.Bhanumurthy, Scientist (Horti.), KVK, Pandirimamidi has visited paddy fields at Gangavaram village of Gangavaram mandal. Observed blast disease in paddy and recommended spraying of tricyclozole 75 WP @ 0.6 g/litre, carbendazim@1 g/litre of water, weeding on bunds in time, more no. of split applications of nitrogenous fertilizers, no drying of fields and maintain sufficient water in the field for the control of disease intensity.



On 27 August 2021, Dr. P. Lalitha Kameswari, Principal Scientist & Head and Dr. S. Adarsha, Scientist (Entomology), KVK, Pandirimamidi visited apiary unit at Pedageddada village of Rampachodavaram mandal and observed the condition of bee hives and recommended the strategies for honey yield improvement.

On 17 August 2021, Dr. V. Nagarjuna, Research Associate (Soil Science), Dr. V. Yugandhar, Research Associate (Horticulture) and K. Prasindhu, Research Associate (Plant Pathology) from KVK, Vonipenta visited Banana fields for diagnosis of pests and diseases at Adireddypalli and Musalinayanapalli villages of Mydukur mandal. Scientists observed the Sigatoka leaf spot in banana and suggested foliar application of Mancozeb @ 0.25% along with mineral oil to manage the disease.



On 18 August 2021, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Ridge gourd fields for diagnosis of pests and diseases at Gopavaram village of Proddatur mandal. During the visit scientist observed Downy mildew in Ridge gourd and suggested foliar application of Mancozeb or Metalaxyl M.Z @ 2 g/lit twice at 10 days interval.

On 18 August 2021, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta created awareness on Sigatoka leaf spot disease in banana at Chennamukkapalle village of Khajipet mandal. Suggested measures like field sanitation (removal of old leaves from field), removal of weeds and suckers, to maintain optimum plant population, optimum application of N and K fertilizers and application of Mancozeb @ 0.25% and mineral @ 10 ml/lit on susceptible banana varieties. In this awareness campaign DDH, Kadapa, HO, Mydukur, VHAs from Khajipet and 20 farmers have participated.



### Phone-in-Programs under Farmers Advisory Cell of Dr YSRHU

Dr YSRHU-Farmers Advisory Cell organized the following Phone-in-Programs during the second fortnight of August (3-4 PM).

Date	Topics
16.08.2021	చీని, నిమ్మ సాగులో ఎరువుల యాజమాన్యం Dr.C.Madhumati, Principal Scientist & Head, CRS, Petlur
17.08.2021	పెరటి తోటల పెంపకం ద్వారా ఆహార మరియు పోషణ భద్రత Dr.E.Karunasree, Principal Scientist & Head, KVK, V.R.Gudem
18.08.2021	సేంద్రియ పద్ధతిలో పసుపు సాగు Dr.B.Tanujapriya, Sr.Scientist, HRS, Lam
20.08.2021	ఉల్లి మరియు వెల్లుల్లిని ఆశించే తెగుళ్ళ సమగ్ర నివారణ Dr.K.Subramanyam, Princiapal Scientist & Head, HRS, Mahanandi
21.08.2021	తమలపాకు కొత్త తోటల పెంపకం మరియు పాత తోటల్లో చేపట్టవలసిన యాజమాన్య పద్ధతులు Dr.D.Aparna, Scientist, HRS, V.R.Gudem
23.08.2021	చీని, నిమ్మ తోటలలో వేరు కుళ్ళు, తెగుళ్ళ సమగ్ర యాజమాన్యం Dr.T.Rajashekaram, Scientist, CRS, Tirupati
24.08.2021	సీతాఫలంలో పురుగులు మరియు తెగుళ్ళ యాజమాన్యం Dr.P.Deepthi, Scientist & Head, HRS, Anantapuramu
25.08.2021	జీడిమిడిలో పోషక నిర్వహణ Dr.K.Umamaheswara Rao, Scientist, CRS, Bapatla
26.08.2021	తేనెటీగల పెంపకం Sri G.Shaliraju, Scientist, KVK, V.R.Gudem
27.08.2021	వర్షా కాలంలో పూల తోటల పెంపకంలో మెళకువలు Dr.P.Lalita Kameswari, Principal Scientist & Head, KVK, Pandirimamidi
28.08.2021	మిరపలో ప్రధాన పొలం తయారీ, నాట్లు మరియు ఎరువుల యాజమాన్యం Dr.A.Rajani, Scienstist, HRS, Lam
31.08.2021	వంగ మరియు బెండలో సమగ్ర సస్యరక్షణ చర్యలు Dr.S.Adarsha, Scientist, KVK, Pandirimamidi

### "Udyana Vani" programs under Farmers Advisory Cell of Dr YSRHU

Dr YSRHU-Farmers Advisory Cell organized the following "Udyana Vani" Programs during the second fortnight of August, 2021.

Date	Topics
16.08.2021	కర్రపెండలం సాగులో మెళకువలు

Date	Topics
17.08.2021	తాటి చెట్టు—విలువ ఆధారిత ఉత్పత్తులు
18.08.2021	ధనియాలు, మెంతుల సాగులో మెళకువలు
19.08.2021	ఆగాకర, యాలకులు, వాము సాగులో మెళకువలు
21.08.2021	బంగాళదుంప సాగులో మెళకువలు
23.08.2021	కర్రపెండలం సాగులో మెళకువలు
24.08.2021	తాటి చెట్టు—విలువ ఆధారిత ఉత్పత్తులు
25.08.2021	ఆయిల్ పామ్ & సుగంధ పంటల సాగులో మెళకువలు
26.08.2021	రబ్బర్ సాగులో మెళకువలు
27.08.2021	మిరియాల సాగులో మెళకువలు
28.08.2021	జీవన ఎరువుల తయారీ విధానం

### Technical support to RBK Channel

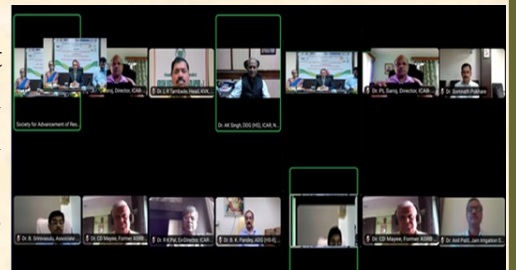
Following Scientists of Dr YSRHU are deputed for recording technical content at Integrated Call Centre, Gannavaram through RBK Channel during the second fortnight of August, 2021.

Date	Topic	Scientist Name
16.08.2021	బంతి ఫూల సాగులో యాజమాన్య పద్ధతులు	Dr.A.V.D.Dorajeerao, Professor (Hort.), CoH, V.R.Gudem
21.08.2021	ఉల్లి సాగులో యాజమాన్య పద్ధతులు	Dr.K.Venkata Subbaiah, Scientist, KVK, V.R.Gudem
23.08.2021	తైవాన్ జామ సాగులో యాజమాన్యం	Dr.B.Ramesh Babu, Senior Scientist (Hort.), HRS, V.R.Gudem
27.08.2021	ముసగ సాగులో యాజమాన్య పద్ధతులు	Dr.M.Mutyala Naidu Principal Scientist & Head, HRS, Darsi

### General

#### Meetings

Dr.B.Srinivasulu, Associate Dean, CoH, Anantharajupeta, participated in the International Webinar-Pomegranate: Ancient Fruit in Modern Horticulture from 25-27<sup>th</sup> Aug, 2021 in virtual mode through Zoom platform, as co-chairman of the technical session: I “Challenges and opportunities in pomegranate production and utilization National and Global scenario” on 25-08-2021. The webinar was organized by National Research Centre on Pomegranate, Solapur, ICAR in collaboration with Central Institute for Arid Horticulture (CIAH), Bikaner, and Society for Advancement of Research on Pomegranate (SARP), Solapur.



Dr. G. Sarada, Assoc. Professor (Entomology), CoH, Anantharajupeta has attended a National webinar on “Integrated pest management – A paradigm shift” on 27<sup>th</sup>& 28<sup>th</sup> Aug, 2021, organized by NCIPM, Delhi. Also presented a poster entitled “Management of fruit flies infesting muskmelon through eco-friendly modules”.

Dr.G.Ramanandam, Principal Scientist (Hort.) & Head, Dr. R. Naga Lakshmi, Senior Scientist (Hort.), Dr. K. Ravindra Kumar, Senior Scientist (Hort.), Dr. A. Snehalatha Rani, Scientist (Plant Pathology), HRS, Kovvur participated in 28<sup>th</sup> foundation day celebration of National Research center for Banana, Tiruchirapalli, Tamil Nadu through zoom followed by National Webinar on Banana Value Chain and Marketing – New Business Horizons as per the invitation of the Director NRCB, Trichy on 21 August 2021.

Dr. Ch.S. Kishore Kumar, Scientist (Plant Pathology), HRS, Kovvur attended Annual workshop virtually on 27 August 2021 conducted by AICRP on Nematodes in Agriculture, and finalised the research experiments to be conducted for the year 2021-23.

Smt. P. Sunitha, Scientist, (Entomology), HRS, Venkataramannagudem attended an online training programme on “PEST SURVEILLANCE” from 23 to 27 August 2021 conducted by National Institute of Plant health Management, Rajendranagar, Hyderabad.

Dr. E. Karuna Sree, Principal Scientist & Head and Dr. A. Devi varaprasadreddy along with the awardee tribal women farmer Mrs. TellamRamana participated as panelist in Farmers-Scientists-Industry interface session of the International e-conference on “Postharvest Disease Management & Value Addition of Horticultural Crops” by ICAR-IARI, New Delhi virtually on 19.08.2021 and presented the success story of T. Ramana in adoption of IFS model and achieved ensured market for her organic products in tribal villages.



On 19 August 2021, Dr.Srividya Rani.N Scientist (Extension) and Head, Dr. S. Lavanya, Research Associate (Livestock production), Ms. K. Prasindhu, Research Associate (Pathology), and Dr. V.Yugandhar, Research Associate (Horticulture) attended online training programme on “Integrated Parthenium Management” organized by the ICAR-DWR, Jabalpur.

## Visits



Dr. B.M.K. Reddy, Chairman, Andhra Pradesh State Bio Diversity Board, Government of Andhra Pradesh visited Cashew Research Station, Bapatla on 22 August 2021 and observed the Cashew Nursery activities, different experiments on cashew and enquired about the scenario of cashew in A.P. Dr. K. DhanumjayaRao, Zonal Research Head, Coastal Zone-II, Dr. YSRHU and Principal Scientist (Hort) & Head, explained the on-going activities at CRS, Bapatla.

Dr. R. Nagaraju, Principal Scientist (Horticulture) & Head, CRS, Tirupati inspected parks as third party quality inspection at Madanapalli on 17 August 2021 and submitted a report.





All the staff of AICRP on MAP & Betelvine, HRS, V.R.Gudem held an informal meeting with the tribal farmers at Kandrikagudem village near Kannapuram of KoyyalagudemMandal, W.G.Dt., on 27 August 2021 regarding selection of farmers for TSP under AICRP on MAP & Betelvine scheme.

On 17 August 2021, FPO group of farmers (18 no.s) from ITDA-K.R. Puram, West Godavari district visited PHTRS, Venkataramannagudem. Dr. D.V. Swami, Principal Scientist (Hort.) & Head demonstrated the functioning of sorting & grading machinery, ripening chamber and cold storage chambers at integrated pack house unit and preparation of value added products.



On 23 August 2021, Smt. K.Uma Maheswari, small scale entrepreneur from Vijayawada, Krishna District visited PHTRS, Venkataramannagudem. Dr. B.Babu Rao, Research Associate (Horticulture) demonstrated the functioning of sorting & grading machinery, ripening chamber and cold storage chambers at integrated pack house unit and preparation of value added products.

### Awards

Dr.B.K.M.Lakshmi, Principal Scientist (Plant Pathology) & Head, MRS, Nuzvid was awarded with Best Oral Presentation for the paper on “Pre-harvest fruit bagging in Mango-An useful approach for Post harvest disease management and improved fruit quality” at International e-conference on “Postharvest Disease Management and Value Addition of Horticultural crops” ICAR- IARI, New Delhi, India held on August 18-20, 2021.

Dr. Y. Sireesha, CoH, Anantharajupeta has been awarded with best oral presentation at International e-Conference on “Postharvest Disease Management and Value Addition of Horticultural crops” ICAR- IARI, New Delhi, India held on August 18-20, 2021.



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