



## Fortnight Focus

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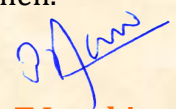
## From Vice-Chancellor's Desk

### TERRACE HORTICULTURE

Terrace Horticulture is becoming a common feature in today's urban environment. The trend of terrace horticulture is not new, for centuries it has been common to use rooftops as a living space/recreational space. The first known historical reference to a roof garden is the stone temples in the region of Mesopotamia. Roof tops and terraces of building are valuable sources for urban horticulture. It is also potential option for cultivation of vegetables and flower crops on terrace conditions. Besides, terrace cultivation can supply preferential, fresh, toxic free vegetables with minimum expenditure.

There are many benefits of these terrace gardens, such as waste recycling, ecological benefits, energy conservation, water conservation, decorative enhancement of buildings, occupant's health benefits and attracting birds and insects.

The university through KVKs and Farmers Advisory Cell actively involved in conducting training programmes, Frontline Demonstrations, webinars on Terrace Horticulture. Dr.YSRHU declared year 2020-21 as "Women Empowerment Year". Under this, special focus has been given to create awareness / skill training on Terrace Horticulture to peri urban and urban women.

  
**Dr T.Janakiram**  
Vice-Chancellor

## The Events

### Inaugurations

#### e-Office

Dr T.Janakiram, Vice-Chancellor has inaugurated e-office in DR.YSRHU on 31March 2021 in the presence of all university officers, teaching and non-teaching officers. Conducted training programme on e-office to the university officers, teaching staff and non-teaching officers/staff of administrative office (including outsource JACTs) on 31 March & 1 April 2021. Dr K.Gopal, Registrar has coordinated the programme. Dr.Rajesh, Technician of IT Department, GAD, Secretariat, Government of Andhra Pradesh has explained about the e-office system.



#### Solar Poly Drier



Dr T.Janakiram, Vice-Chancellor, Dr.YSRHU has inaugurated Solar Poly Drier on 31 March 2021 at KVK, Venkataramannagudem in the presence of Dr. B. Srinivasulu, Director of Extension, Dr. A.S. Padmavathamma, Dean of Horticulture, Dr. R.V.S.K. Reddy, Director Research, Dr. K Gopal, Registrar, Dr.J.Dilip Babu, Director of Industrial & International Programmes, Dr. D.V. Swamy, University Librarian. Dr. E. Karuna Sree, Principal Scientist & Head coordinated the programme.

### World Water Day

“World Water Day” was celebrated on 22 March 2021 involving all the 42 institutes of the university. On this occasion Farmers Advisory Cell (FAC) and Krishi Vigyan Kendras under this university have organized webinar on “Valuing Water” under the chairmanship of Dr



T.Janakiram, Vice-Chancellor. Dr T.B.S.Rajput, Adjunct Professor, IARI has delivered special lecture. Dr B.Srinivasulu, Director of Extension and Dr E.Karuna Sree, Principal Scientist & Head, KVK, Venkataramannagudem have coordinated the programme.



## Education

### ELP Activities

Dr V.Sudha Vani, Associate Professor (Horticulture) along with the ELP students of CoH, V.R.Gudem attended Kisan Mela conducted by BRS, V.R.Gudem and Trade Fair under PMKY conducted by KVK, V.R.Gudem on 23 & 31 March 2021 respectively. Students have exhibited different value added products prepared from horticultural produce.



## Training Programmes

Two days training programme was conducted on “Organic vegetable cultivation” to rural youth on 15 & 16 March 2021 under RKVY Project 'Horti Business Incubation Centre (HBIC)', CoH, Venkataramannagudem. The participants were trained on principles and practices of organic farming, Integrated Farming Systems, nutri kitchen gardening, organic fertilizers, organic plant protection, organic seed production, organic certification and economic viability of organic production along with an exposure visit to organic farming farmer fields. Dr.K.Uma Jyothi, Associate Dean, Dr.R.V.Sujatha, Associate Professor and Principal Investigator (HBIC) coordinated the programme.



## Research

### Training Programmes

CRS, Bapatla organized training programme on “Cashew production technology” under SCSP sponsored by ICAR- DCR, Puttur at Gangavaram village, Rajavaram Panchayat, Koyyalagudem mandal, West Godavari District on 25.03.2021. Dr. T. Janakiram, Hon’ble Vice-chancellor, chief guest of the function highlighted the importance of raw material production to supply the needs of processing industry to run throughout the year is possible only through



planting high yielding varieties of soft wood grafted plants. Proper management practices are to be done in time for high yielding of the cashew trees. And also requested to utilize the services of the university for technical support of the university for the benefit of the poor farmers for their upliftment. Also urged the farmers to form a cashew farmers group and name it as Gangavaram cashew. Dr. R.V.S.K. Reddy, Director of Research, Dr YSRHU highlighted the interventions to be taken up in cashew like pruning, fertilizer application, pest and disease management, drying, grading and storage of the raw material to get the higher price. Dr K. Dhanumjaya Rao, Principal Scientist (Hort.) & Head, Cashew Research Station, Bapatla has explained different varieties and technologies developed by the Cashew Research Station, Bapatla. Sri A. Durgesh, Assistant Director of Horticulture, Jangareddygudem explained about the different schemes implemented by the department of horticulture like area expansion, Pack houses for minimal processing, cashew processing units. Dr K. Umamaheswara Rao, Scientist (Horticulture), Dr. B. Nagendra Reddy, Scientist (Entomology) has delivered the lectures on cashew production technology and pest and disease management and clarified the doubts of the cashew farmers. This programme was attended by Village Agriculture Assistants and Village Horticulture Assistants and about 100 farmers.



Dr. V. Govardhan Rao, Scientist (Pl. Path) and Dr. D. Devika Rani, Research Associate (Entomolgy) conducted survey and surveillance of coconut pests and diseases in East Godavari, Visakhapatnam, Vizianagaram and Srikakulam districts of Andhra Pradesh and collected soil and plant samples on 15 to 19 March 2021.

On 16 March 2021, Dr.B.V.K. Bhagavan Principal Scientist (Hort.) & Head and Dr N.B.V.Chalapathi Rao, Principal Scientist (Entomology) participated and explained about Bio control based management of Rugose spiraling whitefly using *Isaria fumosorosea* (NBAIR Pfu 5), conservation of *Encarsia guadeloupe* and clipping of predator *Psuedomallada astur* at a training programme organized by Mamidikduru Coconut Farmers Producer company limited, Mamidikuduru .



Dr. V. Govardhan Rao, Scientist (Plant Pathology), HRS, Ambajipeta carried out a diagnostic field visit in coconut gardens at Tummalapalli village, Allavaram mandal of East Godavari district on 31 March 2021.

HRS, Kovvur collected a sweet potato germplasm line from agency areas of Srikakulam district which has recorded an average tuber weight of 1.5-2.0 kg with dry matter content of 38.63% and 22.5 % starch with good organoleptic score (9).



Dr K. Ravindra Kumar Scientist (Horticulture), HRS, Kovvur attended field visit at Malakapalli village along with HO, Kovvur on 20 March 2021 and inspected Grand naine and Tella Chakkerakeli fields for nutritional deficiencies. Identified severe potash deficiency and recommended to spray 5 grams potassium sulphate along with 0.5 ml adhesive per litre of water thrice at weekly intervals for correction of deficiency. Observed bacterial rhizome rot in TellaChakkerakeli and recommended to drench the soil with 25 grams/liter bleaching powder per plant.

Dr R.Rajyalakshmi, Senior Scientist (Horticulture), MRS, Nuzvid visited nursery at Bhattulavarigudem on 17 March 2021 and advised Nursery men about the nutrient management to improve the growth of the Seedling and grafts.



Dr R.Nagaraju, Principal Scientist (Horticulture) & Head, HRS, Anantharajupeta along with Horticulture and Agricultural officers of Chakrayapeta (M), YSR Kadapa, Dist. inspected the onion fields at Nallayyagaripalli (V), Pendlimarri (M) to know the exact reason for poor performance and to suggest ameliorative measures on 23 March 2021.

On 28 March 2021, Dr Ch. Ruth, Professor (Plant Pathology) along with PG students, CoH, Anantharajupeta visited banana fields in Nagavaram the adopted village of CoH, Anantharajupeta and observed *Spodoptera* infestation on 3 month old crop and suggested suitable remedial measures to the farmers.



On 27 March 2021, Dr Ch. Ruth, Professor (Plant Pathology), Dr G.Sarada, Assistant Professor (Entomology), Dr K. Arunodhayam, Assistant Professor (Plant Pathology) along with the PG (Pl. Path.) students, CoH, Anantharajupeta visited watermelon, papaya and banana gardens in Y Kota village of Kodur mandal and observed various pest and disease infestation and suggested suitable remedial measures to the farmers.



Bacterial rot in tissue culture Banana Spodoptera damage on Banana

Severe damage of *spodoptera* and bacterial heart rot in 1-2 month old tissue culture banana fields at C Kammappalli (Rly. Kodur Mandal) and Besthapalle (Rajampet mandal), YSR Kadapa district was reported by the farmers. In ratoon tissue culture banana plants *Emusae* leaf spot is very severe and the Scientists of HRS, Anantharajupeta advised the farmers with suitable remedial measures.

For doubling income for Papaya growers, research on intercropping in papaya is in progress at HRS, Anantharajupeta with different crops like Marigold, Radish, Cabbage, Cauliflower, Fenugreek, Coriander and Palak.



Papaya+ Marigold



Papaya+ Radish



Papaya+ Cabbage



Papaya+ Cauliflower



Papaya+ Fenugreek



Papaya+ Coriander

## Extension Activities

### Vice-Chancellor to Village Activities

Scientists of HRS, Ambajipeta conducted a meeting on 23.03.2021 at adopted village, Avidi. The Hon'ble Vice Chancellor Dr. T. Janakiram and Dr. RVSK. Reddy Director of Research addressed the gathering and distributed tissue culture banana plants and fertilizer inputs to selected SC farmers in Avidi village as part of AICRP on Palms, SCSP sub plan. About 75 beneficiaries attended the meeting including DDH, ADH, HO, VHAs of Horticultural Department and progressive farmers from the village.





Dr R.Naga Lakshmi, Senior Scientist (Horticulture), Dr A.Snehalatha Rani, Scientist (Plant Pathology), and Dr. Ch. S Kishore Kumar, Scientist (Plant Pathology), HRS, Kovvur visited Ravuripadu, the adopted village on 31 March 2021 and suggested the remedial measures for the control of rhizome rot and sigatoka leaf spot diseases in banana.

On 29 March 2021, Dr Ch.Ruth, Professor (Plant Pathology) along with ELP students, CoH, Anantharajupeta trained the women farmers in mushroom bedding preparation at adopted village Nagavaram. The rural women prepared the mushroom bedding with oyster mushroom spawn.



CRS, Petlur conducted training programme on “Importance of bio-fertilizers and their applications in horticulture crops”. Distributed biofertilizers and created awareness to the farmers in adopted Theerthampadu village of Dakkili mandal on 30 March 2021. Dr B.Prathap, Scientist (Agronomy) coordinated the programme.



Dr L. Mukunda Lakshmi, Senior Scientist (Horticulture), Dr D. Srinivas Reddy, Senior Scientist (Entomology) and Dr T.Rajasekharam, Scientist (Plant Pathology), CRS, Tirupati inspected micronutrients and IPM implemented orchard for fruit setting on 18 March 2021 at adopted village of Nadavaluru, Ramachandrapuram Mandal, Chittoor district.

On 27 March 2021, under the flagship programme ‘Vice-chancellor to village programme’ Dr B.Vijayasree, Research Associate (Home Science), Dr.K.Mallikarjunarao, Research Associate (Horticulture) and Ms.K.Sravani, Research Associate (Agrl. Extension), KVK, Periyavaram conducted training programme on “Cultivation and Value addition of Summer Vegetables” for farmers & farm women in adopted village C.C.Kandriga.



Scientists of MRS, Nuzvid conducted "VC to Village" program "On Usage of drones for spraying effectively in mango gardens" to farmers from adopted village Ravicherla and VHAs at MRS, Nuzvid on 22 March 2021.

**SCSP-2020-21**

On 20 and 26 March 2021, KVK, Pandirimamidi provided Pongamia soap to beneficiaries for the demonstration on Cashew T-mosquito bug management (SCSP-2020-21) and also demonstrated the usage of pongamia soap to farmers of Musurimilli and Kakavada villages of Rampachodavaram mandal. Sri K.C.Bhanu murthy, Scientist (Horticulture) coordinated the program.



## Trade Fair on Organic Products under PKVY

On 31 March 2021, KVK, Venkataramannagudem organized Trade Fair on organic products under Paramparagat Krishi Vikas Yojana (PKVY). Hon'ble Vice Chancellor Dr T. Janakiram attended as chief guest and inaugurated the stalls on Organic Products in the presence of university officers Dr. B. Srinivasulu, Director of Extension, Dr. A.S. Padmavathamma, Dean of Horticulture, Dr. R.V.S.K.



Reddy, Director Research, Dr. K Gopal, Registrar, Dr.J.Dilip Babu, Director of Industrial & International Programmes and Dr. D.V. Swamy, University Librarian. Dr. E. Karuna Sree, Principal Scientist & Head coordinated the programme.



On 27 March 2021, KVK, Pandirimamidi conducted "Trade Fair on Organic Products" as part of the project, "Paramparagat Krishi Vikas Yojana (PKVY)" being implemented for PGS-India organic certification of 20 cashew farmers at Kakavada village of Rampachodavaram mandal. Dr. B. Srinivasulu, Director of Extension, Dr. YSRHU attended as chief guest and inaugurated the

exhibition stalls arranged by PKVY farmers, Girijan Corporation Society, Vana Dhana Vikas Kendras (VDVKs), ZBNF staff, Rampachodavaram and HRS, Pandirimamidi. Dr.P.Lalitha Kameswari, Senior Scientist & Head, KVK, Pandirimamidi addressed the farmers about the importance of traditional organic farming and its improvement plan under PKVY project. All delegates addressed the importance of organic farming and marketing of organic products and released a Pamphlet on "Sampradaaya Sendriya Abhivruddhi Pranaalika" in this programme. P Raja Sekhar, Scientist (SS&AC), KVK, Pandirimamidi coordinated this programme. Assistant Project Director, ITDA-Velugu, Dr. K. Rajendra Prasad, Senior Scientist & Head, HRS, Pandirimamidi, Project Horticulture Officer, ITDA, Rampachodavaram, District Coordinator, ZBNF and a total of 116 farmers, 23 Agri polytechnic students and VAA/VHAs have attended this programme.

On 31 March 2021, KVK, Vonipenta organized Trade fair under PKVY programme. Dr. Srinivasa Chari, Principal Scientist, ARS, Utukur attended as chief guest and delivered a lecture on soil health management in organic farming and importance of biofertilizers in nutrient management and Dr V. Nagarjuna, Research Associate (SSAC) explained about the organic practices in banana, turmeric and tomato crops. Srividya Rani, N, Scientist



(Extension) and Head stressed the importance of organic farming adoption for reducing chemical and residue free produce. Released pocket cards on this programme and organized an exhibition with organic products produced by farmers under PKVY programme. Dr. V. Nagarjuna, Research Associate (Soil Science), Smt.Srividya Rani, N, Scientist (Extension) and Head coordinated the programme.

## Training Programmes

Dr V.N.P. Sivarama Krishna, Associate Professor (Horticulture) and Dr M.Siva Prasad, Associate Professor (Horticulture), CoH, Anantharajupeta attended a training programme as resource persons to 52 Village Horticultural Assistants and Village Agricultural Assistants on INM and Postharvest Management of mango, banana, papaya and acid lime on 17 March 2021 at Razampet. This programme was organized by ATMA, Rajampeta Division.



Dr L.Ranjith Kumar, Scientist (Entomology), CRS, Petlur briefed about the different ongoing activities of research station and production and protection technologies developed in acid lime to the farmers of Thottembedu block of Chittoor (Dist.), under ATMA Programme on 22 March 2021.

Dr K.Ravindra Kumar, Scientist (Horticulture), HRS, Kovvur participated as resource person in a training programme on "Commercial cultivation of flower crops (SCSP Programme) conducted by Regional Station, Directorate of Floricultural Research, Vemagiri on 23 March 2021 and delivered a lecture on "Techniques in chrysanthemum cultivation for loose flower production". Dr T.Janakiram, Hon'ble Vice -Chancellor attended as chief guest for the programme. Dr.NBVChalapathi Rao, Principal Scientist (Entomology) attended the training programme and interacted with farmers.



Dr K. Ravindra Kumar, Scientist (Horticulture), HRS, Kovvur participated as resource person in the training programme on "Awareness programme on controlling RSW and GAP for higher yields in coconut and oil palm gardens" at Chagallu and Tadimalla villages on 25 & 26 March, 2021 respectively organized by Department of Horticulture. Demonstration was conducted on yellow sticky trap arrangement, *Isaria* fungal culture spraying and release of *Dichochrysa aster* eggs in infested gardens.

Dr B.K.M. Lakshmi, Senior Scientist (Plant Pathology) & Head, Dr R.Rajyalakshmi, Senior Scientist (Horticulture) and Dr G.Sravanthi, Scientist (Entomology), MRS, Nuzvid attended a training programme on 'Management practices to be followed for getting higher yields in mango' organised by ATMA under Kisan Ghosti programme in Agricultural market yard, Nuzvid on 18 March 2021.



On 20 March 2021, KVK, Pandirimamidi conducted off campus training program on "Improved cultivation practices of cashew" and addressed the farmers on canopy management in young orchards, management of flower and fruit drop, integrated management of pests and diseases. Sri Bhanu murthy K.C, Scientist (Horticulture) coordinated the program. 25 farmers and technical assistants from Tanager-NGO participated.



On 17 March 2021, On-campus training programme was conducted by KVK, Periyavaram on “Prevention of Milk Fat Depression in dairy animals” for extension functionaries and practicing farmers of Venkatagiri mandal. Dr B.Govinda Rajulu, Principal Scientist & Head, KVK, Periyavaram interacted with Animal Husbandry Assistants of Venkatagiri mandal and appraised them about Animal Husbandry activities taken up by the KVK and explained the benefits of green fodder cultivation for higher milk yield from animals particularly during summer season. ADAH, Venkatagiri explained the importance of balanced feeding to dairy animals for good milk yield. Dr.P.Manjari, Scientist, Veterinary Science, explained the reasons for milk fat depression in dairy animals, methods of prevention and also explained the benefits and techniques for preparation and feeding of bypass fat. As part of the programme, bypass fat packets were distributed to the beneficiaries. Dr.P.Manjari coordinated the programme.



From 15 to 27 March 2021, KVK, Pandirimamidi conducted three days skill training program on “Value addition in Palmyrah”. Dr P.Lalita Kameswari, Senior Scientist & Head, KVK, Pandirimamidi interacted with trainees on utilization of various resources for Entrepreneurship development. Dr K.Rajendra Prasad Senior Scientist & Head, HRS, Pandirimamidi and P.C.Vengiah Scientist (FS&T), HRS, Pandirimamidi delivered lectures on Importance of Palmyrah and its value addition and processing in palmyrah during the program. Preparation of palm tuber flour and value added products with palm tuber flour were explained to trainees. Dr G.Ramanandam Principal Scientist & Head, HRS Kovvur Participated as chief guest in the valedictory session and addressed the trainees to utilize the program for entrepreneurship development. PHO-ITDA Rampachodavaram explained about various schemes available to develop entrepreneurship among women groups. 19 SHG women and 1 trainee from Gangavaram, Devipatnam, Maredumilli mandals and HO, Rampachodavaram, Gender Sensitisation Incharge-Tanager, APM, Velugu-ITDA participated in the program. Dr.S.Adarsha Scientist (Entomology), MsBharathi, R.A (Horti) coordinated the program.

On 19 and 24 March 2021, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta attended VAA/VHA/VSA training programme at Porumamilla and Badcel respectively organized by DRC, Kadapa and explained about pest and disease management, fertilizer, weed and water management in banana, turmeric, chilli, tomato and pomegranate.



On 27 March 2021, Suneetha. R., Research Associate (Home science), KVK, Vonipenta conducted training programme on nutri gardens at house hold level. Scientist explained different models of nutri-gardens like circle, rectangular and square and also explained about house hold waste management through composting. Provided nutri-garden kits to the women farmers.

On 16 March 2021, Dr E.KarunaSree, Principal Scientist & Head and Dr V.Deepthi, Scientist (Agril Extension), KVK, V.R.Gudem participated in advance training program for FPOs on value chain development activities organized by SEVA NGO Eluru. Dr E.Karunasree delivered a lecture on importance of FPO formation for effective marketing.



Dr K.Venkata Subbaiah, Scientist (Horticulture), KVK, Venkataramannagudem attended a training programme as resource person at ADA office, Tadepalligudem on 20 March 2021 on “Protected cultivation of high value Horticultural crops” to dealers. Explained about status of protected cultivation in India, uses of protected cultivation, components of green houses and their classification, crops suitable for protected cultivation. More than 25 dealers have participated.



On 24 March 2021, Dr K.Venkata Subbaiah, Scientist (Horticulture), KVK, Venkataramannagudem attended a training programme as resource person at Gurugumilli village on “Best management practices in cashew for better yields” organized by Department of Horticulture to Cashew FPO farmers.

KVK, Venkataramannagudem conducted seven days skill training on “Scientific Beekeeping” from 25 to 31 March 2021 sponsored by ICAR-ATARI, Zone – X, Hyderabad and National Bee Board (NBB), New Delhi. The programme was inaugurated by Dr.B.Srinivasulu, Director of Extension in the presence of Dr E.Karuna Sree, Principal Scientist & Head and Scientific staff of KVK, V.R.Gudem and addressed the participants regarding importance of Honeybees in pollination of agricultural and horticultural crops, role of beekeeping in women empowerment and rural development. After successful completion of training the certificates were distributed by the Dr.B.Srinivasulu, Director of Extension, Dr.YSRHU on 31 March 2021.This programme was coordinated by Sri. G. ShaliRaju, Scientist (Entomology).



KVK, Venkataramannagudem started the ASCI training program on the job role “Aquaculture Worker”. Dr.B. Srinivasulu, Director of Extension, Dr.YSRHU has attended as Chief Guest and inaugurated the program and stressed on importance of fish and shrimp in human health, export earnings, and better management practices. Encouraged the youth to work as Technician for the fish and shrimp farming aspects to acquire more knowledge especially hands-on training. Also created awareness on formation, role and importance of FPOs to the participants. In this program, Balaji, ADH, Dept. of Horticulture, Dr.T.Vijaya Nirmala, Dr.V.Deepthi, G Shali Raju, Dr. K. Venkata Subbaiah, Scientists, KVK have participated. The program was coordinated by Dr.E.Karunsree, and Dr.A.Devivaraprasad Reddy.

On 19.03.2021 Dr.V Deepthi, scientist (Agril Extension), KVK, Venkataramannagudem has organized farmers training programme on improved cultivation practices for summer pulses and also attended field day programme in paddy in coordination with Department of Agriculture, Tadepaligudem.



CRS, Bapatla organized a training programme on cashew at Pathapatnam, Srikakulam district on 18 March 2021 sponsored by Directorate of Cashewnut and Cocoa Development, Cochin. Horticultural Officer, Pathapatnam, Secretary BREDS NGO Pathapatnam and 150 No's of farmers attended the programme. Dr. K. Umamaheswara Rao, Scientist (Horticulture) & Dr. B. Nagendra Reddy, Scientist

(Entomology) coordinated the programme.

CRS, Bapatla organized a training programme on cashew at Hira mandalam, Srikakulam district on 19 March 2021 sponsored by ICAR- DCR, Puttur under SCSP. CEO, Chinnaya Adivasi Vikasa Sangam, HO, Pathapatnam and 120 No's of farmers attended the programme. Dr. K. Umamaheswara Rao, Scientist (Horticulture) & Dr. B. Nagendra Reddy, Scientist (Entomology) coordinated the programme.



CRS, Bapatla organized a training programme on cashew at Billananduru Village, Kotananduru Mandal, Tuni Division, East Godavari district on 20 March 2021 sponsored by Directorate of Cashewnut and Cocoa Development, Cochin. HO, Tuni and 150 No's of farmers attended the programme. Dr. K. Umamaheswara Rao, Scientist (Horticulture) and Dr B.Nagendra Reddy, Scientist (Entomology) coordinated the programme.

### Field Day

On 20 March 2021, Dr P.Lalitha Kameswari, Senior Scientist & Head and Dr S.Adarsha Scientist (Entomology), KVK, Pandirimamidi visited Cluster front line demonstration on Bengal gram var. NBeG 49 fields at Jagannadhapuram village of Korukonda mandal. Crop is at harvesting stage. Recorded yield parameters of both the demonstrated and check varieties in field conditions. Estimated yield of NBeG 49 is 24.50q/ha.



### On Farm Trial

On 26 March 2021, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta has conducted to followup visit in Guava fields at Paluguralla palle village of B.Matam mandal under IIHR- SC Subplan. Explained about pruning methods for getting higher yields in guava.



## Exposure Visits

On 19 March 2021, Agricultural Polytechnic students (Irlapalli campus) of ANGRAU visited KVK, Pandirimamidi and interacted with technical staff. Sri K.C Bhanumurthy, Scientist (Horticulture) and Miss Bharathi, RA (Horticulture) explained about the ongoing activities of KVK, cashew grafts production, acid lime cultivation aspects, propagation methods in ornamentals and KVK demo units i.e. Nutri Garden Model, Mushroom unit demo blocks etc.



On 20 March 2021, B.Sc (Voc) Agriculture and Horticulture students of PYDAH college, Yanam visited KVK, Pandirimamidi as a part of exposure cum awareness visit. Dr. P. Laitha Kameswari, Senior Scientist & Head, interacted with the students and explained about the KVK activities. Sri Bhanu murthy K.C, Scientist (Horticulture) and Miss Bharati, RA (Horticulture) coordinated the program and explained about nursery management in cashew, importance of grafts over seedlings, propagation methods in dragon fruit, protray method of raising vegetable seedlings, ornamentals, Nutri garden model, cashew and palmyrah processing unit. In this programme, technical staff of PYDAH college and 52 students have participated.

KVK, Venkataramannagudem conducted Exposure visit to Odisha farmers on 22 March 2021. During their visit farmers got exposed to different KVK demonstration units like Processing and Horticultural Skill Training Centre, Mushroom unit, University Museum etc. This program was co-ordinated by Dr K.Venkata Subbaiah, Scientist (Horticulture). About 90 farmers have participated.



KVK, Venkataramannagudem conducted Exposure visit to Odisha farmers on 22 March 2021. During their visit farmers got exposed to different KVK demonstration units like Processing and Horticultural Skill Training Centre, Mushroom unit, University Museum etc. This program was co-ordinated by Dr K.Venkata Subbaiah, Scientist (Horticulture). About 90 farmers have participated.



On 30 March 2021, KVK, Venkataramannagudem conducted exposure visit to Paramparagat Krishi Vikas Yojana (PKVY) farmers (20 nos). During this visit, farmers were taken to KVK and HRS Pandirimamidi for learning about cashew processing and processing of Palmyra palm products. This program was coordinated by Dr K.Venkata Subbaiah, Scientist (Horticulture).

On 18 March 2021, KVK technical programmes were reviewed by Dr. B. Srinivasulu, Director of Extension, Dr. YSR Horticultural University at Raavigudem Pandugudem and. Datlavarigudem. Visited IFS unit at Raavigudem. This program was coordinated by Dr. E. Karuna Sree, Principal Scientist and Head, Dr. K. Venkata Subbaiah, Scientist (Horticulture) and Sri.G. Shali Raju, Scientist (Entomology).



## Diagnostic Visits

On 17 March 2021, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited onion fields for diagnosis of pests and diseases at Chinnadasari palli village of Pendlimarri mandal. Observed thrips infestation in Onion and Suggested to spray Dimethoate or Fipronil @ 0.2% for control.

On 20.03.2021, P Raja Sekhar, Scientist (SS&AC), KVK, Pandirimamidi has visited demonstration fields of sesame variety YLM-66 and groundnut variety, Kadiri Amaravathi under NFSM- CFLDs on Oilseeds at East Lakshmipuram village of Eleswaram mandal and Paidiputta village of Y.Ramavaram mandal. Scientist observed healthy growth in both the crops which are at pod formation and vegetative stages respectively and provided the critical inputs like 19:19:19 for foliar spray@ 5g/ litre during flowering and pod formation stage for the enhancement of pod yield in respective crops as part of technology intervention.



On 31 March 2021, Dr S.Adarsha, Scientist (Entomology), KVK, Pandirimamidi visited apiary established at I.Bheemavaram Village of Maredumilli mandal. Observed queen less colonies and suggested suitable measures for colony development and explained about queen grafting for the establishment of new queen.

On 16 March 2021, Mrs. Srividya Rani, N, Scientist & Head, Dr. V. Yugandhar, Research Associate (Horticulture) and Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited groundnut and korra fields for diagnosis of pests and diseases at Madirepalli village of Duvvur mandal. Observed root rot disease in groundnut and stem borer in korra fields. Suggested drenching with Hexaconazole @ 0.2% to the disease infected and surrounding plants to control the spread of root rot disease in groundnut and suggested spraying of Thiodicarb 75% WP @ 0.05 % against stem borer infestation in Korra fields.



On 18 March 2021, Dr V.Nagarjuna, Research Associate (Soil Science) and Dr.V. Yugandhar, KVK, Vonipenta visited sweet orange and Mango orchards for diagnosis of pests and diseases at Machugari palli and Mittamanupalli villages of Mydukur mandal. Identified root rot disease in sweet orange and suggested removal of dead plant and drench the soil with Carbendazim or mancozeb

@ 2 gm / lit for the remaining plants and mass multiplication and application of *Trichoderma viride* and stem borer infestation in mango and suggested to close the insect hole with cotton plugs dipped in Dichlorvos followed by stem application of copper oxy chloride.

On 26 March 2021, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited tomato and chilli fields for diagnosis of pests and diseases at Somireddipalli village of B.Matam mandal. Observed tomato spotted wilt virus infection and recommended for removal and destruction of infected plants followed by spraying of dimethoate or methyl demeton @ 0.2% to control the spread of disease. Also observed aphids infestation in chilli and suggested to spray Methyl demeton @ 0.2%.



On 19 March 2021, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited ridge guard fields for diagnosis of pests and diseases at Musalinayanapalli village of Mydukur mandal. Observed Zn and Fe deficiency in ridge guard and suggested foliar application of  $ZnSO_4 @ 2.0 \text{ gm /lit}$  and  $FeSO_4 @ 2 \text{ gm /lit}$  for correcting micronutrient deficiency.



On 20 March 2021, Dr V.Nagarjuna, Research Associate (Soil Science) and Dr V.Yugandhar, KVK, Vonipenta visited chilli fields for diagnosis of pests and diseases at Gangayapalli village of Mydukur mandal. Identified the upward and downward curling in chilli and suggested to spray acephate @  $1.5 \text{ gm /lit}$  or triazophos @  $1.25 \text{ ml/ lit}$  for the control of insect vectors.

On 24 March 2021, Ms. K. Prasindhu, Research Associate (Plant Pathology) and R.Suneetha, Research Associate (Home science), KVK, Vonipenta visited tomato and chilli fields for diagnosis of pests and diseases at Musalnayanapalli village of Mydukur mandal. Observed tomato spotted wilt virus infection and recommended for removal and destruction of infected plants followed by spraying of dimethoate or methyl-odemeton @  $0.2\%$  to control the spread of disease. Also observed upward curling in chilli and suggested to spray imidacloprid @  $0.03\%$  or dimethoate @  $0.2\%$  to control the disease.



On 20 March 2021, Sri G.ShaliRaju, Scientist (Entomology), KVK, V.R.Gudem conducted diagnostic visit to the sesame fields under Cluster Front Line Demonstrations (CFLDs) on oilseeds at Kunavaram village, Tadepalligudem mandal and observed leaf folder and sucking pest damage. Suggested foliar application of chlorpyrifos @  $2\text{ml/l}$  or dimethoate @  $2\text{ml/l}$  against leaf folder and sucking pests.

### Method Demonstrations

Dr G.Ramanandam, Principal Scientist (Horticulture) & Head along with Dr. R. Naga Lakshmi, Senior Scientist (Horticulture), HRS, Kovvur as resource persons demonstrated macro propagation technique in banana cultivars, Grand Naine and Kovvur Bontha to the tribal farmers at KVK, Pandirimamidi on 17 March 2021.



On 26 March 2021, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted a method demonstration on "Multiplication of *Trichoderma Viride*" at Gangavaram village of Mydukur mandal. Explained the method of preparation for application in banana crop.

## Front Line Demonstrations

On 16 March 2021, Mrs. Srividya Rani, N, Scientist & Head, Dr. V. Yugandhar, Research Associate (Horticulture), Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited Rajashree poultry breeds under FLD on “Assessment on performance of Rajashree poultry breeds as dual purpose backyard poultry” for follow up at Gudipadu village of Duvvur mandal.



On 27 March 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited acid lime fields for follow up under FLD on flower regulation in Acid lime at Ponnampalli village of Mylavaram mandal. During the visit scientist explained about spraying of gibberillic acid, cycocel and potassium nitrate for flower regulation and getting higher yields in summer crop followed by demonstration on spraying of micro-nutrient mixture @ 5g per lit on acid lime plants.

## General



Scientists of Dr.YSRHU participated in Kisan Mela on 27 March 2021 on the occasion of silver jubilee celebrations of KVK, Undi, West Godavari district on 27 March 2021 and displayed the live samples of



banana varieties, tuber crops and technologies for the benefit of farmers and other participants. Sri Kurasala Kannababu garu, Hon'ble Minister for Agriculture, Cooperation, Processing & Marketing, Government of Andhra Pradesh visited the exhibition stall and interacted with the Scientists. Dr.B.V.K.Bhagavan, Zonal Research Head, Coastal Zone-I coordinated the programme.

Dr.B.K.M.Lakshmi, Sr.Scientist (Plant Pathology) & Head, MRS, Nuzvid attended Mango buyers and sellers meeting at Gateway Hotel, Vijayawada along with Dr T.Janakiram garu Hon'ble Vice Chancellor, Dr. YSRHU and Commissioner of Horticulture on 16 March 2021.



On 25 March 2021, Dr S.Adarsha, Scientist (Entomology), KVK, Pandirimamidi participated in workshop on Implementation of JalasakthiAbhiyan CTR 2021 Campaign organized by Principal Secretary to Government of AP. All the District collectors and line department officers participated in the program.

From 2 to 22 March 2021, Dr S.Adarsha, Scientist (Entomology), KVK, Pandirimamidi and Sri G.Shaliraju, Scientist (Entomology), KVK, V.R.Gudem participated and successfully completed 21 days training program on Mushroom Production and processing technology organized by IGKV, Chatisgharh and NADCL, Baramulla through Virtual mode.

On 23 March 2021, scientific staff of KVKs under Dr.YSRHU participated in Review meeting of Cluster Front Line Demonstrations (CFLDs) on Pulses and oilseeds 2020-21 workshop organised by ICAR-ATARI, Zone – X, Hyderabad and presented the work done for the year 2020-21 and action plan for the year 2021-22.

### Visits

Twenty input dealers from Chittoor district under DAESI programme conducted by ATMA unit visited CRS, Tirupati and lectures were delivered on citrus production and protection technologies on 18 March 2021.



On 30 March 2021, Project Officer, APMIP and PD, APMIP, YSR district visited demonstration plots at KVK, Vonipenta. During the visit Mrs.Srividya Rani.N, Scientist and Head explained to the farmers regarding KVK, activities and the demonstration plots established at KVK, Vonipenta. Project Officer suggested for installation of Hydroponics, cultivation of intercrops in orchards (Guava, Mango Pomegranate and custard apple) and interacted with the technical team of KVK about fertigation schedule in different horticultural crops.

### Radio Programmes

Dr D.R.Salomi Suneetha, Professor (Biochemistry), CoH, Venkataramannagudem has given a radio talk on “corona kalamlo roga nirodhaka sakthi ni penche immune boosting aahara padhardalu” at All India Radio, Vijayawada on 16 March 2021.

Dr K. Ravindra Kumar, Scientist (Horticulture), HRS, Kovvur has given a radio talk on “Tissue culture -aratilo vesavilo chepattavalasina yajamanya paddhatulu” at All India Radio (AIR), Vijayawada on 17 March 2021.

### Phone-in-Live Programmes

Sri G.Shaliraju, Scientist, KVK, Venkataramannagudem attended Phone-in-Live Programme on “Rugose spiraling whitefly management in horticultural crops” at Doordarshan Kendra, Vijayawada on 22 March 2021.

### 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 March (3-4 PM).

Date	Activities
16.03.2021	వేసవిలో టమాట సాగు Dr.M.G.BalaHussani, Sr.Scientist & Head, HRS, Madanapalle
17.03.2021	దుంప పంటల రకాలు – విత్తన సేకరణ Dr.K.Mamatha, Sr.Scientist, HRS, Kovvur
18.03.2021	వేసవిలో జీవాల పెంపకంలో మెళకువలు Dr.P.Manjari, Scientist, KVK, Periyavaram
19.03.2021	అల్లం సాగులో మెళకువలు Dr.V.Siva Kumar, Scientist & Head, HRS, Chintapalle



Date	Activities
20.03.2021	వేసవిలో కోళ్ళ యాజమాన్యం Dr.T.Vijaya Nirmala, Scientist, KVK, Venkataramannagudem
22.03.2021	కొబ్బరిని ఆశించు తెగుళ్ళ యాజమాన్యం Smt.B.Neeraja, Scientist, HRS, Ambajipeta
23.03.2021	కొత్తిమీర సాగులో మెళకువలు Dr.B.Tanuja Priya, Sr.Scientist, HRS, Lam
24.03.2021	జీవన ఎరువుల ప్రాముఖ్యత Dr.V.Deepthi, Scientist, KVK, Venkataramannagudem
25.03.2021	ఉద్యాన పంటలలో కోత అనంతర పరిజ్ఞానం Sr P.C.Vengaiyah, Scientist, HRS, Pandirimamidi
26.03.2021	బొప్పాయి సాగులో మెళకువలు Dr.R.Nagaraju, Principal Scientist & Head, HRS, Anantharajupeta
27.03.2021	పెరటి తోటల సాగులో మెళకువలు Dr.E.Karunasree, Principal Scientist & Head, KVK, V.R.Gudem
30.03.2021	జామ తోటలలో పాటించవలసిన యాజమాన్య పద్ధతులు Dr.M.Mutyalanaidu, Principal Scientist & Head, HRS, Darsi
31.03.2021	చీని, నిమ్మ తోటలలో సమగ్ర యాజమాన్య పద్ధతులు Dr.B.Govindarajulu, Principal Scientist & Head, KVK, Periyavaram

### **"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 March.

Date	Activities
16.03.2021	మార్చి మాసంలో సుగంధ ద్రవ్య పంటలు మరియు ఔషధ పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, సుగంధ తైల & ఔషధ మొక్కలైన పన్నీరు, రుశాగడ్డి, దవనం మరియు యూకలిప్టస్ సిట్రోదేరా సాగులో మెళకువలు.
17.03.2021	వాతావరణ సూచనలు, మార్చి మాసంలో పండ్ల తోటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, సుగంధ తైల & ఔషధ మొక్కలైన వట్టివేరు, తులసి, పుదినా, పచౌలి మరియు అశ్వగంధ సాగులో మెళకువలు.
18.03.2021	మార్చి మాసంలో పండ్ల తోటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, నేలవేము, కలబంద, సునాముఖి, వస సాగులో మెళకువలు.
19.03.2021	మార్చి మాసంలో తోట పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, సర్పగండ, పిప్పిలి, గ్లోరిలిల్లి, కామంచి, దూలగొండి, కస్తూరి బెండ మరియు శతావరి సాగులో మెళకువలు.

Date	Activities
20.03.2021	మార్చి మాసంలో సుగంధ ద్రవ్య పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, వాతావరణ సూచనలు
23.03.2021	మార్చి మాసంలో పండ్ల తోటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, సూక్ష్మసాగు నీటి పద్ధతి.
24.03.2021	కూరగాయలు మరియు పూల తోటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, వ్యవసాయ మరియు ఉద్యాన రంగాలలో ప్లాస్టిక్ వినియోగం.
25.03.2021	మార్చి మాసంలో తోట పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, సమస్యాత్మక భూములు -వాటి యాజమాన్యం మరియు వర్మికంపోస్ట్ తయారీ.
26.03.2021	మార్చి మాసంలో సుగంధ ద్రవ్య పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, జీవన ఎరువులు-వ్యవసాయంలో వాటి ప్రాముఖ్యత
27.03.2021	మార్చి మాసంలో పండ్ల తోటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు, జీవ నియంత్రణ పద్ధతుల ద్వారా హానికారక పురుగుల నివారణ మరియు జీవరసాయనాలు చీడపీడల నివారణలో వాటి ప్రాముఖ్యత, వాతావరణ సూచనలు
30.03.2021	మార్చిమాసంలో కూరగాయలు మరియు పూల తోటలనందు పనులు చేపట్టవలసిన మరియు సూచనలు, సుస్థిర వ్యవసాయం, భూసారం, సాగునీరు మరియు పంట మొక్కల పరిక్షల విధానం - ఆవశ్యకత.
31.03.2021	మార్చి మాసంలో తోట పంటలనందు చేపట్టవలసిన పనులు , పుట్టగొడుగుల పెంపకం, వాతావరణ సూచనలు

### Awards

Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, Venkataramannagudem received 'Best Resource Person Award' on 18 March 2021 from the Hon'ble Vice-Chancellor, and Director of Research, PV Narsimha Rao Telangana Veterinary University during the year 2017-19 at Fisheries Research Station, Palair.



**Patron:** Dr T.Janakiram, Vice-Chancellor  
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**Administrative Office, Venkataramannagudem-534 101,**  
**West Godavari district, Andhra Pradesh**  
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