



# Dr YSRHU e-Newsletter

Fortnightly e-Newsletter of Dr Y.S.R.Horticultural University



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Dr YSRHU e-Newsletter

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## Fortnight Focus

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## From Vice-Chancellor's Desk

### Biodiversity in Horticulture

Horticulture involves the cultivation of high-value crops encompassing fruits, vegetables, plantation, medicinal and aromatic crops flowers etc. both in rural and urban areas, a diversified areas of cultivation.

The biodiversity in plants, cultivated crops and particularly in Horticultural crops, is a gift of nature that underpins sustainability, nutritional security and above all a diversified food basket. Horticulture has special role to create the message of interdependence of human being in natural resources.

It is a unique opportunity to explore and identify the existing biodiversity in Horticultural crop varieties and their nutritional composition, nutritional differences within the species and the micronutrient superiority of some lesser known cultivars and wild varieties.

Dr.YSR Horticultural University (Dr.YSRHU) has entered MoU with PPV & FRA and Bio-diversity international and moving jointly towards identification of biodiversity in Horti-biodiversity parks. The university is conducting awareness programmes on Agri/Horti-biodiversity conservation in collaboration with ICAR-NBPGR & Bio-diversity Board of Andhra Pradesh.

Dr T.Janakiram  
Vice-Chancellor

## The Events

### Visit of Vice-Chairman, APSAM

Sri. M.V.S. Nagi Reddy garu Vice-Chairman, Andhra Pradesh State Agriculture Mission (APSAM) along with Sri B. Subbarao garu, President, District Agriculture Advisory Board, West Godavari, and other members of AP State Agriculture Mission visited Dr. YSR Horticultural University on 18 October 2021 to interact with scientists and farmers regarding the management of Rugose Spiralling White Fly in coconut, oilplam and other Horticultural Crops. Visited



Jaggannapeta village and interacted with the coconut and oilplam farmers regarding the effect of RSW fly on the yields of coconut and oilplam. Horticultural Research Station, Venkataramannagudem arranged an interaction meeting at RBK, Ramannagudem where the chief guest in the august presence of Dr. T. Janakiram Vice-chancellor, Dr. R.V.S.K. Reddy Director of Research, Dr. B. Srinivasulu, Director of Extension and Dr. B.V.K. Bhagawan Zonal Research Head, Coastal Zone-1, interacted with the farmers and RBK staff including VAA regarding e- crop registration and other services extended by the Government of Andhra Pradesh to the farmers through RBKs. Later the team participated in the Training cum Demonstration of RSW fly management organized by the Dept. of Horticulture in Neeladripuram village. In the afternoon session "Exhibition of Organic Products" was inaugurated by Sri M.V.S Nagi Reddy garu, Vice-Chairman, APSAM and the dignitaries participated in the interaction meeting with the organic farmers in West Godavari District. Or-



ganic Farmers expressed their views on crop performance in paddy, pulses, papaya, vegetables and sugarcane by adopting organic cultivation practices in their field. Dr.E.Karuna Sree, Principal Scientist &

Head, KVK, V.R.Gudem co-ordinated the programme.

### ICAR Accreditation Peer Review

ICAR Accreditation Peer Review team consisting of Chairman, Dr.D.P.Ray, Members Dr.Prabhat Kumar, Dr.Rakesh Gupta, Dr.Vikram Prasad Pandey and Member Secretary Dr.Seema Jaggi have reviewed virtually on 25 & 26 October, 2021. the Self Study Reports presented by university and four constituent Colleges of Horticulture under the university. Dr. T. Janakiram, Vice-Chancellor and University Officers Dr. A.S. Padmavathamma, Dean Horticulture, Dr. R.V.S.K. Reddy, Director of Research, Dr. B. Srinivasulu, Director of Extension, Dr. K. Gopal, Registrar, Dr. A. Sujatha, Dean of Student Affairs & Dean PG, Dr. Dhanumjaya Rao, DIIP and Dr. D. V. Swami, University Librarian and Associate Deans of four Colleges of Horticulture under Dr.YSRHU have participated in the review meeting.



## Education

### RHWEP Activities

Six final year Horticultural RAWEP students from CoH, V.R.Gudem have visited the HRS, Peddapuram on 26 October 2021. Dr. M. Janaki, Scientist (Hort.) & Head has explained the research activities going on at the research station, the production technology of cassava, sweet potato and other tuber crops.



RHWEP students visited Biocontrol lab, HRS, VRGudem Smt. P. Sunitha, Scientist (Ento) explained about mass multiplication of entomopathogen *Isaria fumosorosea* and predator *Dichochrysa astur* at laboratory for the management of RSW on coconut, oil palm and other horticultural crops on 30 October 2021.

Forty ELP students from KVK, VRGudem visited Biofertilizer unit funded by RKVY on 30 October 2021. Dr. T. Naga Lakshmi, Senior Scientist, (PP) explained about large scale production of Azospirillum, Azatobactor, Rhizobium and PSB biofertilizers and their uses.



On 30 October 2021, as a part of RHWEP student's activities, KVK, Venkataramannagudem conducted vocational training program on "Beekeeping". Shri. G. shaliraju, Scientist (entomology) attended as resource person and also explained about IBDC project, production and processing of honey and also students got exposed to different machinery

used for honey processing.

On 29 October 2021, Ms K.Sravani Research Associate (Agricultural Extension) interacted with RHWEP students, and explained different PRA techniques to be conducted at village and explained about the information to be collected by the students in the village regarding Extension.



KVK, Pandirimamidi organized vocational trainings and exposure visits for RHWEP students-2018 admitted batch on 20-22 October, 2021. Students were taught about nursery management, vermicomposting, beekeeping, cashew processing and mushroom cultivation through practical sessions at KVK, Pandirimamidi and also exposure visits to palmyrah processing unit at HRS, Pandirimamidi,

rubber tapping & processing unit at Devarapalli village and tassar silk rearing centre at Narsapuram village. During the programme, students recorded all the activities carried out at KVK and HRS, Pandirimamidi as part of the course on Research Station Activities under RHWE Programme. P Raja Sekhar, Scientist (SS&AC) and RHWEP In-Charge from KVK coordinated the programmes. A total 35 students have attended.

On 28.10.2021, Dr.V. Nagarjuna, Research Associate (Soil Science) and Suneetha, R, R.A (Home Science) from Krishi Vigyan Kendra, Vonipenta, have conducted training programme to the RHWEP students at KVK, Vonipenta. Research Associate (SSAC) explained the nutrient management in horticultural crops, importance and method of soil sample collection and soil test based fertilizer application. Research Associate (Home Science) explained the value addition for fruits, vegetables and milk.



### Students participation in Yoga competitions



Miss A. Sudha Rani and Miss B. Suneetha students of College of Horticulture, Venkataramannagudem have participated in the district level Yogasana Championship on 25 October 2021 organised by Mahindra and Mahindra Tractors, Tadaepaligudem and bagged first and second prizes in the Women category (18-21 Years) of West Godavari Dist. Further they have been selected for state level competitions. Dr. T. Janaki Ram, Vice-Chancellor, Dr YSR Horticultural University appreciated the students and issued certificates to the participants. Officer In-charge Student Affairs Dr. V.Sudha Vani and Physical Director Dr.Sitaram supervised the events.

### Research

Dr. D. Aparna, Senior Scientist (Hort) conducted survey for collection of germplasm of medicinal plants in Polavaram mandal of W.G.Dist, A. Konduru, Nuzvid and Agiripalli mandals of Krishna district on 22.10.21 and 23.10.21 where seven Bacopa and five Gymnema accessions were collected and kept for multiplication.

The culinary banana varieties viz., Kovvuru bontha, Papoulu, Godavari bontha, Nendran and Manjeeri Nendran-2 were collected from HRS, Kovvuru to study the suitability of banana varieties for the preparation of deep fried chips. The matured unripe fruits were thoroughly washed, peeled off and slices were made with the help of vegetable slicer. Then the slices were blanched for 5minutes and allowed to drain the water and fried in palm oil. The prepared chips were kept under storage and observations are being recorded at regular intervals.



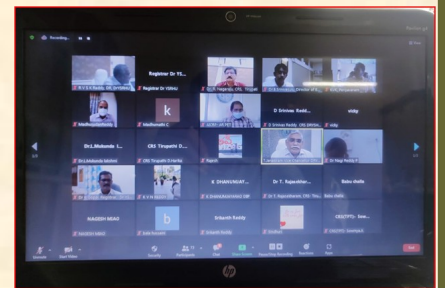
On 27 & 28 October 2021, Scientists of HRS, Ambajipeta conducted diagnostic survey to the affected coconut fields in Billakurru village of Kothapeta Mandal, Lanka of Tanelanka village of Mummidivaram Mandal, Kesanapalli and surrounding villages of Malikipuram Mandal of East Godavari district in collaboration with Horticulture department Officials and submitted the preliminary report. The committee felt that it is necessary to collect the soil, leaf, water, inflorescence and root samples from the affected area to find out the status of different abiotic factors which may cause the stress to the coconut palms and it has been entrusted to Scientist (Plant pathology), HRS, Ambajipeta.



Dr. L. Mukunda Lakshmi, Senior Scientist (Hort), Dr. D.Srinivasa Reddy, Senior Scientist (Ento.) and Dr. T. Rajasekharam, Senior Scientist (PP), CRS, Tirupati surveyed Sathgudi sweet orange orchards in Kurnool, Vanaparathi, Gadwal and Mahaboobnagar districts from 28 to 30 October 2021 as a part of AICRP technical programme. Collected scion material and fruit samples of new Brizillian sweet orange cultivar. The surveyed gardens had severe incidence of citrus psylla (35-40%), mites, Citrus greening (10-25%), twig blight (5-10%), Greasy spot (12-13%) and gummosis (10-12%).

### Webinar

CRS, Tirupati organized a webinar on “Production of disease free quality planting material in citrus and its importance” on 21 October 2021 under the chairmanship of Dr.T.Janakiram, Vice-Chancellor, Dr.YSRHU



## Extension Activities

### Vice-Chancellor to Village Activities

Scientists of CRS, Petlur conducted training programme on nutritional gardens to women farmers of G.K.Palli the adopted village. Dr C Madhumati, Principal Scientist (Horticulture) & Head, explained about importance of nutritional garden to maintain healthy and balanced diet and nutritional facts of Moringa and Dr.M. Kavitha, Senior Scientist (Pl. Pathology) explained about the importance of mushroom cultivation. Further, PKM -1, annual moringa saplings were distributed to 60 women farmers with the assistance of Srinivasa seva trust (TVS), Venkatagiri and also kitchen garden seed kits on 26 October 2021.



Scientists of HRS, Mahanandi conducted an awareness programme on “Importance of horticulture and future prospects” to the ZPH School students of adopted village on 29 October 2021.

On 18 October 2021 Smt. B. Neeraja, Scientist (Pl.Path), Dr. G. Koteswara rao, RA (Hort.), HRS, Ambajipeta proceeded to adopted village, Mamidikuduru and conducted awareness training programme on various measures need to be taken in cyclone affected fields of coconut, cocoa and areca nut. Further, discussed about integrated pest and disease management of coconut gardens and SC sub plan programme with FPO farmers along with Dept. of Horticulture staff.



On 29 October 2021, Smt. B. Neeraja, Scientist (Pl.Path), Dr. G. Koteswara Rao, RA (Hort.), HRS, Ambajipeta conducted an awareness programme on “importance of fruits to combat the COVID-19 pandemic and kitchen gardening and its role to enhance the family health” to the students of ZP high school in

adopted village Mamidikuduru.

Dr. M. Janaki, Scientist (Hort.) & Head, HRS, Peddapuram visited the adopted village “Kattamuru” on 30 October 2021 and visited cassava, cashew, mango fields and MLT trial on CMD resistant cassava and observed tea mosquito in cashew and CMD in local cassava and gave the remedial measures. Explained about recommended and need based package of practices in all three crops. The entries in MLT trial performed very well and showed CMD resistance than local cassava.



As part of VC to Village program, scientific staff of HRS, V.R.Gudem conducted field demonstration on spraying of *Isaria fumosorosea* (pfu5) oil formulation in RSW infested coconut orchards at adopted village, Ramannagudem on 27 October 2021. Dr.Nagalakshmi, Senior Scientist (PP) highlighted the importance of bio control practices for the management of RSW. Later farmers were suggested to include other eco-friendly control measures such as clipping of predator eggs and installation of yellow sticky traps in order to bring down the incidence so as to increase the natural enemies of RSW in coconut orchards.

On 30 October 2021, Dr. K. Mallikarjunarao, Research Associate (Horticulture) conducted Training programme on “Scientific cultivation and management of Drumstick” for farmers and farm women in adopted village Siddavaram. Explained about nutritional and health benefits of moringa, improved varieties, types of propagation in drumstick, planting, application of manures and fertilizers, training and pruning techniques, use of micronutrients, IPM practices and other cultivation practices for getting higher yields in drumstick and also enlightened about the importance of farm bund planting of drumstick to double the farmers income.



Dr. P. Ramadevi, Prof. (Pl. Path), Dr. M. Kalpana, Prof (Hort), Dr. E. Padma, Assoc. Prof (Hort), CoH, Venkataramannagudem visited adopted village, Pullalapadu to conduct field visit on Oilpalm, Coconut and Cashewnut plantations on 28.10.21. Production and protection technologies for controlling Rugose spiraling whitefly were explained in detail to the farmers.



### Swachhata Hi Seva

KVK, Venkataramannagudem has initiated a program on “Swachhata Hi Seva (SHS)” to be celebrated from 2 to 31 October 2021 for the year 2021 as part of Azadika Amrit Mahotsav. As a part of the programme on 28 October 2021 Dr. E. Karuna Sree, Principal Scientist & Head and Dr. A.



Devi varaprasadreddy Scientist (Fisheries) along with KVK staff visited Peddatadepalli village and explained about the management of degradable and non-degradable waste management. Visited the village level waste management unit and segregation of plastic waste from degradable waste for making vermin compost was initiated.



From 16 to 30 October 2021, KVK, Vonipenta conducted cleanliness drive under the Swachhta Action plan at KVK, Vonipenta, ZPPH school, Lekkalavaripalli and farmers fields at Madirepalli village. Conducted elocution competition to RAWEP students on Swachhta Pakhwada and conducted rally at KVK, Vonipenta. Under this programme the Scientist and Head explained the importance of cleanliness at home, school, office and farm premises. KVK staff, students, farmers and farm women have participated in Swachhta activity.

### Thotabadi

On 28 October 2021, Ms K.Sravani Research Associate (Agricultural Extension), KVK, Periyavaram conducted survey regarding the feedback on Thotabadi programme from farmers at Linganallem and Cheekuvolu villages of Sydapuram Mandal.



On 27 October 2021, as a part of Thotabadi programme conducted by the Department of Horticulture, Dr. K. Venkata Subbaiah Scientist, (Horticulture) and Sri. G. Shaliraju Scientist (Entomology), KVK, Venkataramannagudem participated in the training program on Water and nutrient management in oil palm and acid lime in Telikicharla Village. Later collected data for the impact evaluation of Thotabadi programme from 10 farmers.

## Training Programmes

Dr.R.Rajyalakshmi, Principal Scientist (Hort.), MRS, Nuzvid visited mango gardens and organized mango field day and advised farmers about INM, IPM and IDM during flowering and attended meeting organized by Department of Horticulture in Reddygudem on 8 October 2021.



KVK, Venkataramannagudem conducted one day training on “Nutri Foods and Nutrithali” on the occasion of World Food Day on 16.10.2021 at East Rekulakunta Village. Met with Anganwadi teacher and discussed about the nutritional status of the vulnerable groups in the village and nutri supplements given by the center. Also interacted with “Mana Gramam Mana Poshanathota” group of women farmers involved in maintenance of community nutria garden near Anganwadi center. Dr. E. KarunaSree, Principal Scientist & Head coordinated the programme.

On 21 October 2021, KVK, V.R.Gudem conducted Training Programme on Integrated Pest and Disease Management (IPDM) in Guava at RBK, Jaggannapeta village. Later attended gramasabha and explained about women empowerment activities of KVK, Venkataramannagudem. Sri.G.ShaliRaju, Scientist (Ento.) coordinated the programme.



Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, VRGudem has attended the training program as resource person, organized by the Department of Fisheries, on “Captive Rearing of Fish Seed” on 28 October 2021 at RythuBarosa Kendra, Polavaram.

KVK, Venkataramannagudem has organized One day training program on Entrepreneurship Development on 29 October 2021. Dr.E.KarunaSree, PS & Head has explained about the skill based training programs offered for the rural youth for sustainability and retaining youth in agriculture. Dr.K. VenkataSubbaiah, Scientist Horticulture has explained about the Scope and opportunities in horticulture and Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), has explained about the Integrated farming systems for getting enhanced income.



On 28 October 2021 Dr.B.Govinda Rajulu Principal Scientist (PP) and Head, KVK, Periyavaram attended as resource person to the training programme on “Integrated pest and disease management in Acid lime” conducted by MIDH at Lingnapalem and Cheekuvolu villages of Sydapuram mandal and gave a detailed talk on various pests and diseases in acid lime and their management to the farmers. ADH and HO, Nellore participated in the programme.



On 29 October 2021, Dr.E.KarunaSree, Principal Scientist & Head and Sri.G.ShaliRaju, Scientist (Ento.), KVK, V.R.Gudem attended a training programme on “Management of Fall Army Worm (FAW) in Maize” at Narayanapuram village organized by Department of Agriculture and explained about Fall Army worm management and KVK activities. Later conducted diagnostic visit to chilli and blackgram fields along with department officials and observed thrips and mites infestation in chilli and Yellow mosaic virus infestation in blackgram and suggested suitable remedial measures.



On the eve of World Food Day on 16 October 2021, KVK, Periyavaram conducted training programme for women dairy farmers at Chapalapalle village of Dakkili mandal. Milk forms an important part of everyday meal and animal husbandry is an integral part of farming . Hence, the programme was conducted with the aim to acknowledge the farm women engaged in buffalo rearing with scientific techniques of enhancing milk yield and fat content of buffalo milk. Dr.P.Manjari, Scientist (Veterinary Science) explained about the importance and techniques for balancing the feed of buffaloes with all nutritional components. They were also acknowledged about feed supplements like mineral mixture and bypass fat feeding for better health and higher quality of milk obtained from the buffaloes. Later, the bypass fat packets were distributed to the participants.

On 25 October 2021, On-campus training programme was conducted on “Nutritional management of backyard and commercially reared poultry birds” by , KVK, Periyavaram. The practicing farmers, farm women, rural youth and extension functionaries (RBK staff) were acknowledged about feed requirements of poultry birds according to age and breed, the techniques to formulate ration for commercially reared broiler and layer birds and about feed supplements and additives for better growth and productivity. Dr.B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram explained about superior traits of Vanasree poultry birds to the participants and later distributed one month old Vanasree chicks to the beneficiaries as part of OFT under SC-SP programme. Dr.P.Manjari, Scientist, (Veterinary Science) coordinated the programme



On 26 October 2021, Dr. K Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavaram attended as resource person to Visvodaya Govt. Degree College, Venkatagiri Mandal and delivered a guest lecture to the 1<sup>st</sup> year B.Sc (Botany) students on the topic Modern methods of storage and preservation of vegetables.

On 29 October 2021, KVK, Pandirimamidi conducted an on campus training programme and demonstration of Azolla cultivation and its use as feed for poultry and farm animals. Farmers were explained about the nutritive value of Azolla and how to cultivate Azolla. Dr. B. Sravani, Research associate (Veterinary science) has organised this programme and 16 farmers and 11 ZBNF staff attended this training programme.



On 28 October 2021, Sri K.C.Bhanumurthy, Scientist (Horticulture), KVK, Pandirimamidi attended as a resource person to phone-in training program to farmers on Nursery management in chilli at Krishnapuram village of Routhalapudi mandal organized by Reliance Foundation, E.G. District. Addressed the farmers about the management practices to be followed

while raising chilli nursery.

On 23 October 2021, Dr. N. Chiranjeevi, Research Associate (Plant Pathology), KVK, Pandirimamidi conducted one day off campus training programme on rugose spiralling whitefly management in oil palm at Konalova village of Addateegala mandal. In this programme, Agricultural Officer, Addateegala, VAAs, VHAs and 21 farmers have participated.



On 23 October 2021, Dr. N. Chiranjeevi, Research Associate (Plant Pathology), KVK, Pandirimamidi conducted one day off campus training programme on vertebrate pest management in horticultural and agricultural crops under VC to village programme at Thimmapuram village (Adopted village) of Addateegala mandal. As a part of the programme, method demonstration was given to the farmers on usage of monkey and bird scaring gun. In this programme, AO, Addateegala, VAAs, VHAs and 20 farmers were participated.

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### **Vigilance Awareness Week**

On 27 October 2021, Ms K.Sravani, Research Associate (Agricultural Extension) conducted Gram Sabha and Vigilance Awareness week at Siddavaram village ( Adopted village) and enlightened the farmers about corruption practices and public interest disclosure and protection of informers resolution.



On 27 October 2021, KVK, Vonipenta celebrated Vigilance Awareness week with the theme of “Independent India at 75; Self Reliance with Integrity” at KVK, Vonipenta. In this programme scientist and head explained about how to fight against corruption and bringing awareness among the citizens to understand the cause of corruption and stand against it. KVK staff and RHWEP students took

pledge to support the fight against corruption at all times.

## Diagnostic Visits

Dr.C.Madhumathi, Principal Scientist & Head, Dr.M.Kavitha, Senior Scientist (Plant Pathology) and Dr.L.Ranjith Kumar, Scientist (Entomology), CRS, Petlur conducted field diagnostic visit of acid lime orchard at Sunkuaripalli village of Venkatagiri Mandal on 27 October 2021 and observed that, orchard was infested with green mite and the farmer was suggested to spray propargite 57 % EC @ 1.0 ml/l of water.



Dr.R.Rajyalakshmi, Principal Scientist (Hort.), MRS, Nuzvid visited mango plants affected with wilt followed by death of 3 year old plants along with ADH, Nuzvid in Putrela on 27 October 2021

G.Sravanthi, Scientist (Entomology), MRS, Nuzvid visited wilt affected citrus fields and advised the farmers on immediate measures to be taken followed by application of nutrients, pest & disease management for improvement of yields at adopted village "Tukkuluru" along with HO and VHA on 30 October 2021.



On 21.10.2021, Dr. K. Venkata Subbaiah, Scientist (Horticulture), KVK, Venkataramannagudem went to Venkataramannagudem village for diagnostic field visits in ridge gourd and spine gourd crops and suggested to remove the weeds and application of 13.0.45 @ 5g/ l of water for inducing flowering and fruit quality.

On 18 October 2021, Dr. K Mallikarjunarao, Research Associate (Horticulture), Dr. B. Vijayasree, Research Associate (Home Science) and Ms. K.Sravani, Research associate (Agrl. Extension), KVK, Periyavaram visited bitter gourd and ivy gourd fields at Yathalur village of Venkatagiri mandal. Identified fruit fly infestation in bitter gourd and suggested removal and destruction of infested fruits and installation of Cue lure (Pheromone) traps @ 10/ac. Also observed aphids infestation in ivy gourd and recommended to spray acephate @ 1.5g/l (or) Imidacloprid @0.3ml/l. Enlightened the farmers regarding IPM technologies, nutritional value and medicinal uses of cucurbits.



On 23 October 2021, Dr. Srividya Rani.N, Scientist (Extension) and Head, Dr. V. Nagarjuna, R.A(Soil Science), Dr. V. Yugandhar, R.A (Horticulture), Dr. S. Lavanya and K. Prasindhu, R.A (Plant Protection), KVK, Vonipenta visited Black gram fields at Ganjikunta village of Mydukur mandal. Identified YMV in black gram and suggested erecting of yellow sticky traps @ 15 per ac and spraying of Triazophos @ 1.5 ml/lit for insect vector.

On 23 October 2021, Dr. K Mallikarjunarao, Research associate (Horticulture), KVK, Periyavaram, visited Colocasia field at Mannegunta village of Venkatagiri Mandal. Identified leaf blight and suggested to spray Metalaxyl MZ @2g/l twice at 20 days interval and enlightened about the best management practices in colocasia.



On 28 October 2021, Dr B. GovindaRajulu, Principal Scientist and Head, Sri. K. Pradeep Kumar, ADH, SPSR Nellore, Dr. K Mallikarjunarao RA (Horticulture), Ms. K. Sravani, RA (Agriculture Extension), KVK, Periyavaram and Sri E. Anand, HO, Venkatagiri mandal made a diagnostic field visit to acid lime orchards at Pothe gunta village of Sydapuram mandal. Observed iron and zinc deficiency and suggested soil application of  $Fe_2SO_4$  @100g (incubated in 100kg of FYM for 3-4days) and  $ZnSO_4$ @200g/plant.

On 20 October 2021, Dr. N. Chiranjeevi, Research Associate (Plant Pathology), KVK, Pandirimamidi conducted diagnostic visit to paddy fields at I. Polavaram village of Rampachodavaram mandal and observed severe blast incidence and recommended foliar spray of tricycloazole @ 0.6 g/lit or edifenphos @ 0.1% or Thiophanate Methyl @0.1%.



On 26 October 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited sweet orange fields for diagnosis of pests, diseases and nutrient deficiency at Narjampalli village of Mylavaram mandal. Observed mite infestation and suggested to spray Spiromesifen @ 0.8 ml/lit to manage the pest.

On 18 October 2021, Dr. V. Yugandhar, Research Associate (Horticulture) and Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited turmeric fields for diagnosis of pests and diseases at Adireddipalli village of Mydukur mandal. Observed leaf spot disease infection in turmeric and recommended application of Mancozeb @ 0.25% or Chlorothalonil @ 0.25%.



On 18 October 2021, Dr. V. Nagarjuna, Research Associate (Soil Science) and Dr. V. Yugandhar, R.A (Horticulture), KVK, Vonipenta visited sugarcane fields in Adireddypalli village of Mydukur mandal. Identified caterpillar infestation in sugarcane and suggested spraying of Emamectin benzoate @0.4 gm /lit for controlling the pest.

On 26 October 2021, Dr. V. Nagarjuna, Research Associate (Soil Science) and K. Prasindhu, R.A (Plant pathology), KVK, Vonipenta visited turmeric and maize fields in Machugaripalli and Mittamanu palli villages of Mydukur mandal. Identified rhizome rot in Turmeric and suggested to remove the diseased plants and the soil around plants to be drenched with Mancozeb @ 2.5 gm per lit. Observed fall army worm infestation in maize and suggested installation of Pheromone traps @ 4 per ac for attracting male insects.



### Method Demonstrations

On 26 October 2021, K. Prasindhu, Research Associate (Plant Protection) and Dr. V. Nagarjuna, Research Associate, (Soil Science), KVK, Vonipenta conducted method demonstration on installation of fall army worm pheromone traps in maize field. Scientist K. Prasindhu, had interacted with farmers about maize crop and pest and disease management in maize and Dr. V. Nagarjuna interacted with farmers about nutrient management in



maize crop. K. Prasindhu conducted method demonstration on installation of fall army worm pheromone traps in maize field @ 4/acre at Machugaripalle village of Mydukur mandal.



On 23 October 2021, Ms. K. Prasindhu, Research Associate (Plant Protection) and Dr. Srividya Rani.N, Scientist & Head, KVK, Vonipenta conducted Method demonstration on "Installation of blue sticky traps and yellow sticky traps in blackgram under OFT "Assessment of viral disease management in blackgram" at Madirepalli village of Duvvur mandal.

Ms. K. Prasindhu, Research Associate (Plant Protection) had installed yellow sticky traps and blue sticky traps @ 20/acre.

On 25 October 2021, K. Prasindhu, Research Associate (Plant Protection) and Dr. V. Nagarjuna, Research Associate, (Soil Science), KVK, Vonipenta conducted method demonstration on seed treatment of ground nut. Scientist K.Prasindhu, had interacted with farmers about groundnut crop and pest and disease management in groundnut and Dr. V. Nagarjuna, interacted with farmers about nutrient management in groundnut crop. K. Prasindhu conducted method demonstration on seed treatment of ground nut with *Tebuconazole* @1g/kg seed at Gudipadu village of Duvvur mandal.



On 21 October 2021, Dr. V. Nagarjuna, Research Associate (Soil Science), Dr. Srividya Rani, N Scientist (Extension) & Head and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta conducted method demonstration for farmers and RHWEP students in OFT on evaluation of organic package in banana for higher yields at Kesalingayapalli village of Mydukur mandal. Explained the preparation and importance of the application of biofertilizer mixture (*Trichoderma harzianum*, *Azospirillum*, PSB and VAM mixed with FYM and neem cake).

On 29 October 2021 Dr. K Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavaram conducted method demonstration to RHWEP students on installation of pheromone traps for the control of brinjal fruit and shoot borer and yellow sticky traps for the control of white fly and jassid infestation and also explained about IPM strategies for brinjal.



On 29 October 2021, Sri K.C.Bhanumurthy, Scientist (Horticulture) of KVK, Pandirimamidi identified the beneficiary farmers to conduct demonstration of Nutmeg as an intercrop in Rubber at P.M Kota vil- lage of Maredumilli mandal. Observed the performance and effective utilization of rubber smoking chamber and rubber rollers provided to tribal farmers of P.M Kota village under TSP.

### On Farm Trial

On 25 October 2021, K. Prasindhu, Research Associate (Plant Protection) and Dr. V. Nagarjuna, Research Associate, (Soil Sci- ence), KCK, Vonipenta initiated OFT on “Assessment of man- agement module against fall army worm in Maize” During the programme scientists K. Prasindhu, had interacted with farm- ers about pest and disease management in maize and Dr. V. Nagarjuna interacted with farmers about nutrient management in maize crop. K. Prasindhu in- stalled fall army worm pheromone traps in maize field @ 4/acre at Machugaripalle village of Mydu- kur mandal.



On 26 October 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited chilli fields for follow up under OFT at Thorrivemula village of Mylavaram mandal and explained about the recommended fertilizer application, weed and water management in chilli.

On 23 October 2021, Ms. K. Prasindhu, Research Associate (Plant Protection) and Dr. Srividya Rani.N, Scientist & Head , KVK, Vonipenta conducted follow up visit on OFT: Assesment of viral disease management in black gram at Madirepalli vil- lage of Duvvur mandal. During the programme Scientist had provided yellow sticky traps, blue sticky traps and *Imidaclo- prid* chemical to beneficiary farmers.



On 20 October 2021, KVK, Pandirimamidi visited Super napier and CO-5 fields under OFT on Assessment of Super napier and CO-5 at Gandhinagaram village of Rampachodavaram mandal coordinated by Dr. Sravani, Research associate (Veterinary Science). During this visit, farmer was given information about irrigating the field and the harvesting techniques.

On 16 October 2021, KVK, Pandirimamidi conducted an OFT on Assessment of Super napier and CO-5 in the agency area. Three SC farmers were given Super napier and CO-5 slips for the better performance of livestock. Dr. B. Sravani, Research associate (Veterinary science) has organised this programme.



On 20 October 2021, KVK, Pandirimamidi initiated OFT on assessment of introduction of mushroom cultivation in agency area of East Godavari district under TSP-2021. As a part of OFT, Dr. P. Lalitha Kameswari, Principal Scientist and Head and Dr. N. Chiranjeevi, Research Associate (Plant Pathology) distributed milky and oyster mushroom spawn to the beneficiary farmers from I. Bhemavaram village of Maredumilli mandal.

On 20 October 2021, Dr. N. Chiranjeevi, Research Associate (Plant Pathology) and Dr. B. Sravani, Research Associate (Veterinary Sciences & AH), KVK, Pandirimamidi visited bhendi fields at Pedageddada village of Rampachodavaram mandal under OFT on Assessment of seed bio-priming in bhendi (TSP-2021) and the crop is at vegetative stage.



On 22 October 2021, Ms. K. Prasindhu, Research Associate (Plant Protection) and Dr. Srividya Rani, N, Scientist & Head, KVK, Vonipenta conducted follow up visit on OFT: Assessment of viral disease management in Black gram at Ganjikunta village of Mydukur mandal. During the programme scientist has provided yellow sticky traps, blue sticky traps and *Imidacloprid* chemical to beneficiary farmers.

### Front Line Demonstrations

On 20 October 2021, KVK, Pandirimamidi visited poultry birds under FLD on Demonstration of improved varieties of poultry birds like Sreenidhi, Vanasree and Ghagus in the agency area at Pandirimamidi and Bandapalli villages of Rampachodavaram-mandal coordinated by Dr. Sravani, Research associate (Veterinary science). Farmers were explained about the management, feeding and treatment aspects regarding backyard poultry.



On 20 October 2021, KVK, Pandirimamidi visited I. Polavaram village of Rampachodavaram mandal for the Demonstration of Osmanabadi goats in agency area under FLD coordinated by Dr. Sravani, Research associate (Veterinary science). Gathered information regarding the breeding condition, health and disease resistance, feeding and mortality rate of goats and neonatal care of kids.

On 22 October 2021, K. Prasindhu, Research Associate (Plant Protection) and Dr. Srividya Rani.N, Scientist & Head, KVK, Vonipenta conducted follow up visit on FLD: Demonstration on management of Dry root rot disease in sweet orange at Ganjikunta village of Mydukur mandal. Scientists explained the management of Dry root rot disease by following soil drenching with Mancozeb @ 0.2% followed by basal application of *Trichoderma resei* @100g and *Pseudomonas fluorescence* @100g multiplied in neem cake @ 2 kg and FYM @ 25kg per plant and provided necessary inputs to the farmers.



On 22 October 2021, K. Prasindhu, Research Associate (Plant Protection) and Dr. Srividya Rani.N, Scientist & Head, KVK, Vonipenta conducted Follow up visit on CFLD pulses: Assessment of performance of Black gram variety TBG-104 under NFSM-2021-22 at Ganjikunta village of Mydukur mandal. Scientists observed gram caterpillar and aphid infestation on black gram and recommended to spray Quinolphos@25 kg/ha and Emamectin benzoate @ 220g/ ha respectively. During the programme scientists provided yellow sticky traps, blue sticky traps and acephate chemical to the beneficiary farmers.

On 26.10.2021, 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 Potassium Nitrate @ 10g per lit on acid lime plants.



On 22 October 2021, Dr. S. Lavanya, Research Associate (Livestock production) and KVK staff visited Rajasri poultry breeds under FLD on “Assessment on performance of Rajashree poultry breeds as dual purpose backyard poultry” for follow up at Nallapureddy palli village. The scientist observed that the farmer is following the quality management practices, birds appeared in good condition by appearance wise and with stood adverse conditions.

On 23 October 2021, K. Prasindhu, Research Associate (Plant Protection) Dr. Srividya Rani.N, Scientist & Head, KVK, Vonipenta conducted follow up visit on CFLD: Assessment of performance of Black gram variety TBG-104 under NFSM-2021-22 at Madirepalli village of Duvvur Mandal. Scientists observed the infestation of gram caterpillar on blackgram and recommended to spray Quinolphos@25 kg/ha. Scientists provided yellow sticky traps, blue sticky traps and acephate chemical to the beneficiary farmers.





On 29 October 2021, KVK, Pandirimamidi conducted a Front line demonstration on Azolla cultivation as a feed for poultry and farm animals. Ten ST farmers were given Azolla kits along with Azolla culture from the surrounding villages of Rampachodavarm mandal. Dr. B. Sravani, Research associate (Veterinary science) has organised this programme.



On 20 October 2021, Dr. N. Chiranjeevi, Research Associate (Plant Pathology) and Dr. B. Sravani, Research Associate (Veterinary Sciences & AH), KVK, Pandirimamidi has visited chilli fields at Gandhi nagaram village of Rampachodavaram mandal under FLD on viral disease management in chilli and the crop is at vegetative stage.

On 23.10.2021, K. Prasindhu, Research Associate (Plant Protection) Dr. SrividyaRani.N, Scientist & Head, KVK, Vonipenta initiated FLD on "Demonstration of IPDM strategies in Onion" at Madirepalli village of Mydukur mandal. Scientists interacted with farmers about onion crop and demonstrated spraying of *Pseudomonas fluorescense* @ 5g/lit and *Beaveria bassiana* @ 10g/lit to control basal rot and thrips in onion.



### 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 October (3-4 PM).

Date	Topics
16.10.2021	బంతి సాగులో మెళకువలు డా.లలిత కామేశ్వరి, ప్రధాన శాస్త్రవేత్త & హెడ్ కె.వి.కె.పందిరిమామిడి
18.10.2021	చీని, నిమ్మలో పూత, పిందె దశలో యాజమాన్యం డా.ఎల్.ముకుందలక్ష్మి, సీనియర్ శాస్త్రవేత్త, చీని, నిమ్మ పరిశోధన స్థానం, తిరుపతి
19.10.2021	కోకోలో జీవ నియంత్రణ ద్వారా తెగుళ్ళ యాజమాన్యం డా.వి.గోవర్ధన్, శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం, అంబాజీపేట
21.10.2021	జీడిమామిడి తోటలలో నీటి యాజమాన్యం డా.కె.ఉమామహేశ్వరరావు, శాస్త్రవేత్త, జీడిమామిడి పరిశోధన స్థానం, బాపట్ల
22.10.2021	అధిక దిగుబడులకు మునగ రైతులు చేయవలసిన పనులు మరియు నన్యరక్షణ డా. కె.ఎం.యువరాజ్, ప్రొఫెసర్, ఉద్యాన కళాశాల, అనంతరాజుపేట
23.10.2021	చింతలో పురుగులు మరియు తెగుళ్ళ యాజమాన్యం డా.పి.దీప్తి, శాస్త్రవేత్త & హెడ్, ఉద్యాన పరిశోధన స్థానం, అనంతపురము

Date	Topics
25.10.2021	చీని, నిమ్మ తోటలలో వేరుకుళ్ళు తెగుళ్ళ సమగ్ర యాజమాన్యం డా.టి.రాజశేఖరం, శాస్త్రవేత్త, చీని, నిమ్మ పరిశోధన స్థానం, తిరుపతి
26.10.2021	కొబ్బరిలో అధిక వర్షాల ప్రభావం – తీసుకోవలసిన చర్యలు డా.బి.వి.కె భగవాన్, ప్రధాన శాస్త్రవేత్త & హెడ్, ఉద్యాన పరిశోధన స్థానం, అంబాజీపేట
27.10.2021	మేలైన యాజమాన్య పద్ధతులతో కూరగాయల సాగు కె.వెంకట సుబ్బయ్య, శాస్త్రవేత్త, కె. వి. కె, వెంకటరామన్నగూడెం
28.10.2021	మేలైన పశుగ్రాసాల సాగు డా.పి.మంజరి, శాస్త్రవేత్త, కె.వి.కె, పెరియవరం
29.10.2021	మిరియాల సాగులో మెళకువలు డా.వి.శివ కుమార్, శాస్త్రవేత్త & హెడ్, ఉద్యాన పరిశోధన స్థానం, చింతపల్లి
30.10.2021	చిలగడదుంపలో రకములు-శాస్త్రీయ యాజమాన్య పద్ధతులు డా.కె.మమత, సీనియర్ శాస్త్రవేత్త & హెడ్ i/c, ఉద్యాన పరిశోధన స్థానం, పెద్దాపురం

**“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 October, 2021.

Date	Topics
16.10.2021	చేమదుంప సాగులో యాజమాన్య పద్ధతులు
18.10.2021	కర్రపెండలం సాగులో యాజమాన్య పద్ధతులు
19.10.2021	గోరుచిక్కుడు, చిలగడదుంప, పెండలం, కంద సాగులో మెళకువలు
21.10.2021	చేమగడ్డ, బీట్ రూట్, ఉల్లిగడ్డ సాగులో మెళకువలు
22.10.2021	పుట్టగొడుగుల పెంపకంలో మెళకువలు
23.10.2021	ఖరీఫ్ మాసంలో సుగంధ తైల & ఔషధ మొక్కల సాగులో మెళకువలు
25.10.2021	చీని, నిమ్మ సాగులో మెళకువలు
26.10.2021	సుగంధ, ద్రవ్య పంటలలో చేపట్టవలసిన పనులు; పనస సాగులో మెళకువలు
27.10.2021	బొప్పాయి సాగులో మెళకువలు; వర్మి కంపోస్ట్ ఉపయోగాలు మరియు తయారీ
28.10.2021	కూరగాయ పంటలలో చేయవలసిన పనులు మరియు సూచనలు; జామ సాగులో మెళకువలు
29.10.2021	పెరటి తోటల పెంపకం, మిడ్లె తోటల పెంపకం
30.10.2021	పండ్లు, కూరగాయల నిల్వలో పాటించవలసిన ప్రాథమిక సూత్రాలు మరియు నిల్వ పద్ధతులు

## 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 October, 2021.

Date	Topic	Scientist Name
18.10.21	వాము సాగులో యాజమాన్య పద్ధతులు	Dr.B.Tanuja Priya Sr.Scientist, HRS, Lam
22.10.21	పాలి హౌస్ లో కాప్రికం సాగులో యాజమాన్య పద్ధతులు	Dr.M.Ravindrababu, Sr.Scientist (Hort.), HRS, V.R.Gudem
25.10.21	దానిమ్మ సాగులో యాజమాన్య పద్ధతులు	Dr.B.Vimala, Scientist, HRS, Anantapuramu
29.10.21	క్యారెట్, ముల్లంగి, బీట్ రూట్ పంటలలో యాజమాన్య పద్ధతులు	Dr.C.Sarada, Principal Scientist & Head, HRS, Lam

## Phone-in Live Programmes

Dr.K.Subramanyam, Principal Scientist & Head, HRS, Mahanandi attended Phone-in-live programme on “Integrated Pest & Disease Management in Pomegranate” at All India Radio, Vijayawada on 28 October 2021.

## General

Value added products of worshipped flowers viz., images of Sri. Lord Venkateswara Swamy, Sri Padmavati Ammavaru, Pot pourries and Resin made products were displayed in exhibition stall at Mahathi Auditorium, Tirupati on 30 & 31 October 2021.



## Visits



Twenty five final year agricultural RAWEP students from Agricultural College, Rajahmundry have visited HRS, Peddapuram on 25.10.2021. Dr. M. Janaki, Scientist (Hort.) & Head has explained the research activities going on at the station, production technology of cassava, sweet potato and other tuber crops.

Diploma in Agriculture Extension Services for Input Dealers (DESAI) 2021-22 batch, Kurnool have visited HRS, Mahanandi on 22 October 2021.



Dr. B.Babu Rao, Research Associate (Horticulture), PHTRS, V.R.Gudem explained about the scope and feasibility for establishment of fruit and vegetable processing unit to a group of farmers (20no.s) from Jagruthi F.P.O, Sabbavaram, Visakhapatnam district, Andhra Pradesh visited on 25 October 2021.

A group of farmers from Jagruthi Farmers Producers Organization (FPO), Sabbavaram mandal of Visakhapatnam visited KVK, Venkataramanagudem on 25.10.2021. Dr. E. KarunaSree Principal Scientist & Head, Dr. V. Deepthi, Scientist (Agricultural Extension), Dr. K. Venkata Subbaiah, Scientist (Horticulture), Dr. G. ShaliRaju, Scientist (Entomology) and Dr. A. Devi vara Prasad Reddy, Scientist (Fisheries) KVK, Venkataramannagudem participated in farmers training cum interaction meeting and explained about Integrated crop management in Papaya, Mango and cashew, Integrated Farming Systems, Processing and Value Addition of Millets, Fruits and Vegetables”.

### Awards

Dr. NBV. Chalapathi Rao, Principal Scientist (Entomology) received “Best Scientist Award” for his contribution in coconut pest and their management; Dr N. Emmanuel, Associate Professor (Entomology) College of Horticulture, Venkatramannagudem received “Agricultural Scientist Award - 2021” towards contribution in promotion of IPM on vegetable crops and improving livelihoods of Tribal farmers of A.P and Dr. D. Devika Rani, RA (Entomology) received “Best Poster Award” and stood in 1<sup>st</sup> position under the category of Biological Control from Dr .B.V. David foundation 3<sup>rd</sup> national conference on “Recent advances in crop protection including IPM and Environmental Sciences from GLP Perspective” held on 17 October 2021 in Chennai, Tamilnadu state.



Dr. NBV. Chalapathi Rao, Principal Scientist (Ent.) received “Rythu Nestam Puraskaram-2021” award on 30 October 2021 from Sri M.Venkaiah Naidu garu, Hon’ble Vice-President of India.



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