



Dr YSRHU *e-Newsletter*

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

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Dr YSRHU e-Newsletter

16-31 October 2020



Fortnight Focus


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From Vice-Chancellor's Desk

NEW INITIATIVES IN EXTENSION IN Dr YSRHU

Dr YSR Horticultural University is concentrating on transfer of technologies (extension activities) through Krishi Vigyan Kendras (KVKs) and Horticultural Research Stations (HRSSs). After assuming charge as Vice-Chancellor of Dr.YSRHU (30 June 2020), created Farmers Advisory Cell (FAC), Plant Protection Advisory Cell (PPAC), Electronic Wing, Dr YSRHU Youtube Channel, Village Adoption Programme under "Vice-Chancellor to Village" Programme "మన గ్రామం - మన విశ్వవిద్యాలయం" etc. for an effective transfer of technologies for the benefit of farmers, rural youth and women directly and through Rythu Bharosa Kendrams (RBKs), District Resource Centres (DRCs) and Department of Horticulture, Government of Andhra Pradesh.

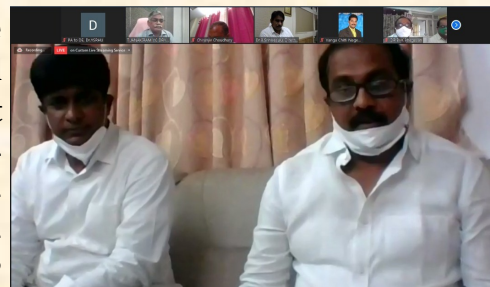
The Farmers Advisory Cell organized 13 webinars, 82 Phone-in Programmes while PPAC organized 4 webinars. Under Vice-Chancellor to Village Programme "మన గ్రామం - మన విశ్వవిద్యాలయం" 42 villages in 13 districts of Andhra Pradesh were adopted by 42 institutes under Dr YSRHU. Regular Advisories to Farmers, RBKs, DRCs and Department of Horticulture through e-publications (e-extension) are also being taken up.


Dr T.Janakiram
Vice-Chancellor

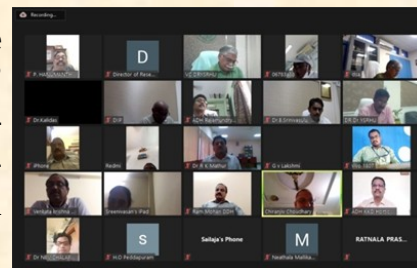
The Events

Webinars

Sri Kurasala Kannababu Garu, Hon'ble Minister for Agriculture & Co-operation, Government of Andhra Pradesh, has released "Logo" of "Dr YSRHU Year of Coconut 2020-21" in the august presence of Dr T.Janakiram, Hon'ble Vice-Chancellor, Dr YSRHU and Commissioner of Horticulture, Government of Andhra Pradesh, during the webinar on "Coconut Products & CDB Schemes" organised by Farmers Advisory Cell of Dr YSRHU in coordination with Coconut Development Board, Kochi, on 22 October, 2020. All the university officers, scientists of Dr YSRHU and officers from Department of Horticulture participated in the webinar.



Dr YSRHU conducted online state-level webinar on "Ameliorative Measures for Horticultural Crops Affected by Heavy Rains/Floods" on 20 October 2020 under the Chairmanship of Dr T.Janakiram, Vice-Chancellor as a part of "Dr YSRHU Year of Coconut 2020-21". University Officers and faculty of Dr YSRHU participated in the webinar and interacted after the presentations with participants.



Dr YSRHU conducted online state-level webinar on "Coconut based High Density Multi-Species Cropping Systems" on 29 October 2020 under the Chairmanship of Dr T.Janakiram, as a part of "Dr YSRHU Year of Coconut 2020-21". University Officers and faculty of Dr YSRHU participated in the webinar and interacted after the presentations with participants. Dr.R.V.S.k.Reddy, Director of Research gave a lecture on "Success Stories on Coconut based Cropping and Farming Systems".

Inaugurations

Hon'ble Vice-Chancellor Dr T.Janakiram, along with University Officers visited the University Museum on 29 October 2020 and inaugurated the Electronic Wing Unit and also recorded a programme with Dr T.Janakiram, Hon'ble Vice-Chancellor. In this visit KVK, Venkataramannagudem, teaching staff also participated.



The Andhra Pradesh Indigenous Ornamental Biodiversity Park was inaugurated by Hon'ble Vice-Chancellor, Dr. T. Janakiram at CoH, VR Gudem. Dr T. Suseela, Associate Professor acting as in-charge for this park. About 65 native plant species were collected and planted in the park with the main objective to enhance biodiversity and to study the adaptability of various species to local climatic conditions. All the University Officers and staff of CoH, VR gudem actively participated in the plantation programme.

Dr.YSRHU Year of Coconut Activities



As a part of Dr.YSRHU Year of Coconut 2020-21, Dr T.Janakiram, Vice-Chancellor has planted a coconut seedling at HRS, Ambajipeta and Prakasaraopalem on 30 and 31 October 2020 respectively.



The institutes under Dr.YSRHU conducted a plantation drive of coconut seedlings on the eve of Dr YSRHU Year of Coconut 2020-21.

Glimpses of Dr YSRHU Year of Coconut 2020-21



“Vice-Chancellor to Village” Program “మన గ్రామం-మన విశ్వవిద్యాలయం”

CoH, Venkataramannagudem launched “Vice-Chancellor to Village” Program “మన గ్రామం-మన విశ్వవిద్యాలయం” in adopted village of Prakasaraopalem on 31 October 2020. Dr T.Janakiram, Vice-Chancellor, inaugurated the programme. In this connection, Grama Sabha was organized for the benefit of farmers of village.



As a part of “Vice-Chancellor to Village” Program “మన గ్రామం-మన విశ్వవిద్యాలయం” , the institutes under Dr YSRHU have conducted “Grama Sabhas” during this fortnight as a part of action plan.

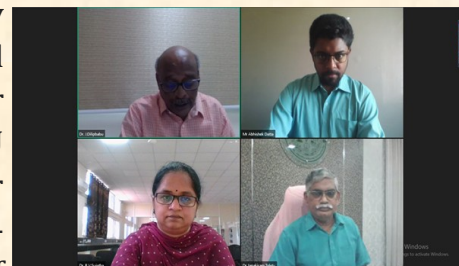
Glimpses of various Grama Sabhas



Education

Webinar on " Investor Awareness Programme on Commodity Derivative Market"

A webinar on " Investor Awareness Programme on Commodity Derivative Market" was organized in association with National Commodity & Derivatives Exchange Ltd. (NCDEX) on 23 October 2020 to create awareness to the students and staff of Dr.YSRHU about investment opportunities in commodity trading. Dr T.Janakiram, Vice-Chancellor, Dr YSRHU delivered a keynote address as a Chief Guest of the webinar. Dr J.Dilip Babu, Director of Industrial and International Programmes, and Dr R.V.Sujatha, Associate Professor, CoH, VRGudem , organized the webinar as moderators. Mr Abhishek Datta, Senior Executive, NCDEX delivered a lecture on commodity derivative markets.

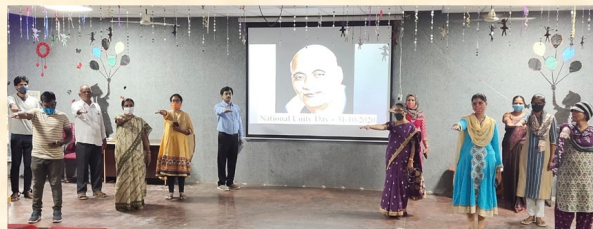


Summer Research Training Programme

Ms. T.S.S.Chandana, M.Sc (2nd year) Plant Pathology successfully completed the Summer Research Training Programme CSIR-SRTP (online)-2020 under the mentorship of Dr Bipul Das, CSIR-NEIST, Jorhat, Assam and received certificate on 23 October 2020 from Dr Shekhar C.Mande, DG, CSIR, Dr Alok Dhawan, Director, Indian Institute of Toxicology Research, Dr Narahari Sastry, Director, CSIR-North Eastern Institute of Science and Technology. Dr K.Sesha Kiran, Asst Professor helped in the application process and selection to the 3-month virtual training programme.

Rashtriya Ekta Diwas

The NSS Unit of CoH, Anantharajupeta celebrated the 145th Birth Anniversary of Shri Sardar Vallabhbhai Patel on 31 October 2020. The Associate Dean along with NSS volunteers, Programme Officers, faculty members and staff admired the Iron Man of India and the architect behind the Integrity of India. During the programme, "Rashtriya Ekta Diwas Pledge" was taken by the staff and students.



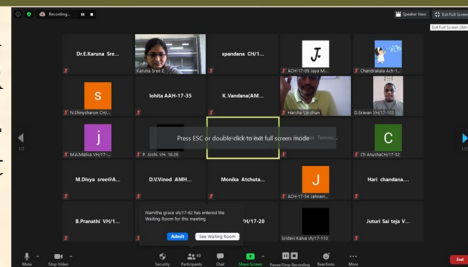
RHWEP Activities

RHWEP-2020 students of various districts from CoH, Anantharajupeta have conducted method demonstrations, viz, neemastram preparation, raised bed preparation for nurseries, sticky and delta traps setting and usage in the field, precautions to be taken while spraying, installation of information corners in the villages, etc. on different crops.



Principal Scientist and Head along with scientific staff of CRS, Petlur, interacted with RHWEP students of KVK, Periyavaram and briefed about the activities of Research Station, production and protection technologies transferred and Research being carried on acid lime at CRS, Petlur, through virtual meeting on 28 October 2020.

On 26 October 2020, KVK, Venkataramannagudem conducted online RHWEF review meeting for 42 B.Sc students of Dr YSR Horticultural University and reviewed their ongoing activities. This programme was coordinated by Dr V Deepthi, Scientist (Agricultural Extension), KVK, Venkataramannagudem.



Research

On 20 and 28 October 2020, 1st and 2nd consignments of 25 (number) of sooty mold feeding *Leichrinus nilgirianus* Kaszab beetles (Coleoptera: Tenebrionidae) were received from ICAR-CPCRI, Kayakulam, and released in Gangabondam biological control conservation block of HRS, Ambajipeta. This release was taken up as a part of study pertaining to establishment of this beetle in Andhra Pradesh as till date the beetle is reported in Kerala state only.

Due to continuous heavy rains (236.5 mm in last 15 days) at HRS, Ambajipeta, most of the cocoa trees are under inundation and observed the vascular dieback symptoms in cocoa trees and isolated the causal organism as *Lasiodiplodia* Ap. on PDA media.



Extension Activities

Method Demonstrations

On 20 October 2020, KVK, Venkataramannagudem, conducted method demonstration on calf starter preparation using locally available feed ingredients to the dairy farmers of Jagannathapuram, Ramannagudem and Venkataramannagudem villages of Tadepaligudem mandal and distributed calf starter feed to dairy farmers under SC-SP plan. This programme was coordinated by Dr T.Vijaya Nirmala, Scientist (Veterinary Science).



On 23 October 2020, Ms Suneetha Runjala, RA (Home Science), KVK, Vonipenta conducted method demonstration on “Underutilized Banana Male Flower” at Sunkulugaripalli village. She explained medicinal uses of banana male flowers, which is rich in antioxidants, flavonoids, proteins and fibres. Banana flower is de-petalized by removing red petals till white creamy petals appear. Chop the final bud and soak it in buttermilk for 30 minutes for detanning. After detanning, boil for 15-20 minutes. Then add all ingredients like mustard, red chilli and allow it to cook for 15 minutes.

Soil Health Cards

On 29 October 2020, P.Raja Sekhar, Scientist (SS&AC), KVK, Pandirimamidi, issued 22 Soil Health Cards to practicing farmers of cashew and tapioca at Gangavaram mandal as a part of Front Line Demonstrations on Integrated Crop Management in Cashew and Nutrient Management in Tapioca.



Training Programmes

Dr R. Nagaraju, Principal Scientist (Horticulture) & Head, Dr D. Sridhar, Scientist (Horticulture) and Dr T. Naga Lakshmi, Scientist (Plant Pathology), HRS, Anantharajupeta, participated in training programmes organised by Project Director Shri. Chandra Naik, District Resource Center, YSR Kadapa, on 22 October 2020 and explained about the ameliorative measures to be taken and Special horticultural practices to be followed for “Mango, Papaya and Banana” to save their crops during and after the continuous rains at Rythu Bharosa Kendrams of Yanadipalli and Raghavarajapuram villages.



Assistant Director of Agriculture and Agriculture Officers of Kadapa and Rly.Kodur mandals explained about the activities of “Rythu Bharosa Kendrams” to farmers.



Dr D. Sreedhar, Scientist (Horticulture), HRS, Anantharajupeta participated in the training programme on “Cultivation Aspects and Pest and Disease Problems of Papaya and Banana” on 22 October 2020 at Rythu Bharosa Kendram of Raghavarajapuram organised by District Resource Centre, YSR Kadapa. Project Director, Assistant Director of Agriculture, Agricultural Officer, Kadapa district participated in the programme.

On 20 October 2020, KVK, V.R.Gudem conducted training program on “Integrated Farming Systems for doubling of farmers income” to the farmers of West Godavari District, Andhra Pradesh. Dr E.Karunasree, Principal Scientist & Head, Dr A.Devivaraprasad Reddy, Scientist, Dr T.Vijaya Nirmala, Scientist, and Dr K.Venkata Subbaiah, Scientist, participated as resource persons and field visit to the IFS unit located at KVK instructional farm at VRGudem was arranged.



As a part of technical programme on oil palm, KVK, Venkataramanagudem, in collaboration with ICAR-IIOPR, Pedavegi conducted training cum demonstration on “Oil Palm Harvesting with Poles” on 28 October 2020. Dr M.V. Prasad, Principal Scientist (Agricultural Extension), IIOPR, Pedavegi explained about the use of harvesting of oil palm with poles and also distributed oil palm harvesting poles to oil palm farmers.

On 28 October 2020, KVK, Pandirimamidi, conducted monthly interaction meeting cum on-campus training programme on “Organic Farming in Cashew” to the PKVY farmers at KVK, Pandirimamidi. Dr P.Lalitha Kameswari, Senior Scientist & Head and P.Raja Sekhar, Scientist (SS&AC), explained about the best management practices to be followed in cashew and other crops under organic farming. About 20 farmers attended in the programme.



On 22 October 2020 Dr B.Govinda Rajulu, Principal Scientist (Plant Pathology) & Head, KVK, Periyavaram and Dr B.Vijayasree, Research Associate (Home Science) conducted training cum demonstration programme on Nutrigarden Model for year round availability of vegetables to the farmers and farm women of adopted village C.C.Kandriga. They also imparted training on how to rise nutrigardens and its significance of nutrigarden. The farmers were taken to the exposure visit to the established nutrigarden in the instructional farm of KVK and also distributed nutrigarden kits.



As a part of Dr.YSRHU Year of Coconut 2020-21 on 31 October 2020, Dr B.Govinda Rajulu, Principal Scientist (Plant Pathology) & Head, KVK, Periyavaram planted coconut plants in the instructional farm of KVK. For this programme Child Development Project Officer (CDPO), Rapur Sk.Shamshad Begum, along with Anganwadi teachers participated in the programme. Later Dr B.Vijayasree, Research Associate (Home Science) conducted training cum demonstration programme on Value addition of Coconut to the Anganwadi teachers of Rapur and Saidapuram mandals. The participants were trained on nutritional and health benefits and the scientists demonstrated different value-added products of coconut like dry coconut laddu with jaggary, coconut burfi and coconut rice. At the end the nutrigarden kits were distributed to the anganwadi teachers.

On 27 October 2020, P.Raja Sekhar, Scientist (SS&AC), KVK, Pandirimamidi attended a training programme as resource person on “Nutrient Management in Horticultural Crops” organized by TANAGER, NGO at Kakawada village of Rampachodavaram mandal and explained about diagnosis of nutrient deficiency symptoms at field level and its correction measures through proper fertilizer application and foliar sprays, especially in cashew at new leaf to peanut stage.



On 29 October 2020, Sri G. Sandeep Naik, Scientist (Plant Pathology) & Head, KVK, Vonipenta, participated in FPO farmers capacity building training programme organized by NABARD, Kadapa. They explained schemes under Aatmanirbhar Krishi being implemented by Government of India.

On 29 October 2020, KVK, Vonipenta conducted off campus training programme on “Micronutrient Management in Horticultural Crops” at D. Agraharam village of B.Mattam mandal. Dr V.Nagarjuna, Research Associate (Soil Science) and Ms Suneetha Runjala, Research Associate (Home Science) explained the role, function and diagnosis of micronutrient deficiency in different horticultural crops. VHA and 20 farmers attended the training programme.



On 21 October 2020, Dr S.Adarsha, Scientist (Entomology) and Dr N.Chiranjivi, Research Associate (Plant Pathology), KVK, Pandirimamidi initiated cluster frontline demonstration on blackgram Var. TBG 104 under NFSM 2020-21 in Konalova village of Addateegala mandal. He explained use of biofertilizers in pulses production, critical stages of irrigation, pest and disease management. AO, Addateegala, VAA, Konalova and 25 farmers participated.



On 16 October 2020, Dr S.Adarsha Scientist (Entomology), KVK, Pandirimamidi participated as a resource person in training programme on “Integrated Farming System to Farmer Producer Organization” of Gangavaram Mandal organized by APIIATP, East Godavari District. He explained management practices in cashew and also provided information on farm bill act as part of the program. APD,APIIATP, HO, Rampachodavaram, VAA and 40 farmers participated.

On 16 October 2020, Dr V. Yugandhar, Research Associate (Horticulture), Krishi Vigyan Kendra, Vonipenta, conducted off-campus training programme on “Integrated Crop Management in Onion” at Neelapuram village of Duvvur mandal. He explained about varieties, cultivation practices, soil test-based fertilizer management through fertigation, pests and disease management in onion.



On 20 October 2020, Shri G.Sandeep Naik, Scientist (Plant Pathology) and Head, KVK, Vonipenta participated as a technical resource person in farmers training program on “Best Management Practices in Tomato” organised by Department of Horticulture, at RHTI, Kadapa. He addressed the gathering on cultivation aspects, fertilizer management, water management, pest and disease management, harvesting, grading and packing.

On 23 October 2020, Shri G.Sandeep Naik, Scientist (Plant Pathology) and Head, KVK, Vonipenta participated as a technical resource person in farmers training program on “Best Management Practices in Mango” organised by Department of Horticulture, at RHTI, Kadapa. He addressed the gathering on cultivation aspects, fertilizer management, water management, flower and fruit care, pest and disease management, harvesting, grading and packing.



On 23 October 2020, KVK, Vonipenta conducted off-campus training programme on “Integrated Crop Management in Chilli” at Thor-rivemula village of Mylavaram mandal. Dr V. Yugandhar, Research Associate (Horticulture) explained about varieties, cultivation practices, soil test-based fertilizer management through fertigation and pests and disease management in chilli.

On 28 October 2020, Srividya Rani.N, Scientist (Extension), Dr V. Yugandhar, Research Associate (Horticulture) and Suneetha Runjala, RA (Home Science), KVK, Vonipenta conducted a group discussion on “Best Management Practices of different Crops to be Cultivated in Rabi” at Konnarajupalle village of S.A.Kasinayana mandal. The scientists explained about banana bunch management practices and pest and disease management in turmeric.



On 28 October 2020, Ms Suneetha Runjala Research Associate (Home Science), N. Srividya Rani, Scientist (Agricultural Extension) and Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta, conducted a training programme on “Importance of Nutrigarden” and provided nutrigarden kits to Anganwadi workers to establish Nutri-gardens at their Anganwadi centres. Scientist explained the layout of Nutri-gardens, manure preparation by using household vegetable and fruit waste. Distributed seed kits to selected Anganwadi Centres.

On 28 October 2020, Sri G. Sandeep Naik, Scientist (Plant Pathology) & Head, Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta, conducted extension functionaries training programme at Badvel and Porumamilla in collaboration with DRC, Kadapa and Department of Agriculture. Scientists explained about fertilizer management, weed management, pest and disease management in paddy, cotton, banana and turmeric.



Tribal Sub Plan

On 28 October 2020, Shri K.C.Bhanumurthy, Scientist (Horticulture), Dr S.Adarsha, Scientist (Entomology) and Dr N.Chiranjeevi, Research Associate (Plant Pathology) of KVK, Pandirimimidi, visited rubber plantations at P.M.Kota village of Maredumilli mandal. Orchards are at latex tapping. Farmers are effectively utilizing the tapping equipments, rubber rollers provided to tribal farmers under TSP for preparation of rubber sheets.



Survey

On 26 October 2020, Ms K.Sravani, Research Associate (Agricultural Extension) conducted baseline survey and collected data of the farm and farm women in adopted village (C.C.Kndriga) under “Vice-Chancellor to Village” programme.



On 28 October 2020, Srividya Rani.N, Scientist (Agricultural Extension), KVK, Vonipenta conducted survey on Knowledge level of farmers production and protection technologies in banana and impact of COVID-19 on agricultural activities of YSR district in Konarajupalli village of Kasinayana mandal. A total of 20 respondents were covered. They also collected the information on farmers. Dr

V.Yugandhar, RA, Horticulture and Ms Suneetha Runjala, RA (Home Science), assisted in data collection.

On Farm Trial

On 21 October 2020, Shri P.Raja Sekhar, Scientist (SS&AC) visited paddy fields as a part of On-Farm Trial on “Assessment of Novel Organic Liquid nutrients in Paddy” at I.Polavaram village of Rampachodavaram and monitored schedule spraying of organic liquid fertilizer @ 5ml/litre at grain formation stage and also observed the healthy growth over the control (farmers’ practice).



On 23 October 2020, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited chilli fields for follow-up under OFT at Thorrivemula village of Mylavarammandal. He explained about the recommended fertilizer application, weed and water management in chilli.

On 27 October 2020 Sri G. Sandeep Naik, Scientist (Plant Pathology) & Head and Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta, had provided groundnut seed to beneficiary farmers for conducting OFT on Introduction of groundnut high-yielding varieties, K9 and K6. The scientist emphasized on the importance of seed treatment with Tebuconazole @ 1 g/kg seed for management of Collar, stem and root rot diseases and followed by seed treatment with *Rhizobium* @ 200 g culture / 10 kg seed.



On 29 October 2020, Shri G. Sandeep Naik, Scientist (Plant Pathology) & Head and Srividya Rani. N, Scientist (Agricultural Extension) and Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta, provided blackgram var TBG-104 and GBG-1 seed to beneficiary farmers for conducting OFT on “Management of Viral Diseases in blackgram”. He emphasized on importance of seed treatment by conducting method demonstration on seed treatment with Imidacloprid

@ 5 ml per kg seed for controlling sucking pest complex and also recommended to cultivate sorghum or bajra as border crop and erection of yellow sticky traps. The cultivation aspects, weed management, water management, pest and disease management in blackgram were also discussed.

Diagnostic Visits

On 29 October 2020, Dr V.Nagarjuna, Research Associate (Soil Science) and Ms Suneetha Runjala, Research Associate (Home Science), KVK, Vonipenta, visited pomegranate fields for diagnosis of pests and diseases at D. Agraharam village of B. Matam mandal. They observed bacterial leaf blight and recommended application of Streptocyclin 0.5 g + copper oxychloride @ 3 g/litre for its management.



On 27 October 2020, V.Govardhan Rao, Scientist (Plant Pathology) & Head, BRS,Pulivendula visited banana fields at Ippatla village, Lingala mandal, Kadapa district . He observed sigatoka leaf spot and recommended to spray mineral oil @1% + one of the fungicides, viz. Propiconazole (0.1%) (or) Carbendazim + Mancozeb combination (0.1%) (Or) Carbendazim (0.1%) (or) Trifloxystrobin + Tebuconazole (1.4 g/litre) 2-3 times at 25-30 days interval. Later interacted with farmers regarding package of practices, varieties grown, fertilizer application, irrigation management, pests and diseases management, marketing, source of planting material, etc.



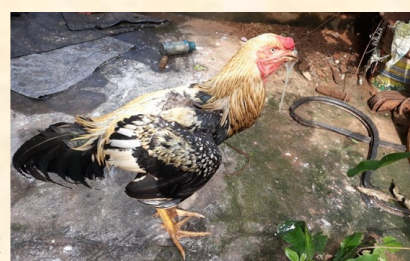
Dr M. Janaki, Scientist (Horticulture) & Head, HRS, Peddapuram visited cassava damaged fields (due to heavy rains) at Kattamuru and R.B.Patnam villages in Peddapuram mandal along with HO, Peddapuram and VHAs on 22 and 23 October 2020 at Peddapuram and observed rotting of tubers.

Dr.Ch.Ruth. Professor (Plant Pathology), CoH, Anantharajupeta visited papaya cv. Red Lady nursery and recommended use of virus free seedlings for planting. Septoria blotch caused by *Septoria chrysanthemellain* was observed on Chrysanthemum cv. Paper Violet, Paper White and Paper Yellow at Kamma palli village of YSR Kadapa district on 29 October spraying of Chlorothalonil 0.2% were recommended to control it.



Dr K. Ravindra Kumar, Scientist (Horticulture), HRS, Kovvur, inspected the flood water inundated fields of banana, papaya and vegetable crops in Vizianagaram district along with officials from Department of Horticulture on 22 and 23 October 2020 and recommended necessary ameliorative measures for its recovery.

On 17 October 2020, Dr T.Vijaya Nirmala, Scientist (Veterinary Science), KVK, Venkataramannagudem attended a case of diseased desi cock of farmer from Telikicherla village suffering from anorexia, facial swelling, nasal and oral mucous discharges and history of mortality in flock was noticed. He recommended treatment with Enrocine oral liquid @ 1ml in 1 litre of water, Lixen @ 2g/1 litre water and Ambiplex liquid @ 0.5 ml/1 litre of water orally for 5 days.



On 28 October 2020, Dr V.Yugandhar, Research Associate (Horticulture), Srividya Rani.N, Scientist (Extension) and Sunetha Runjala, RA (Home Science), KVK, Vonipenta, visited turmeric and banana fields for diagnosis of pest and disease incidence at Konnarajupalle village of S.A.Kasinayana mandal. They observed rhizome rot disease in turmeric and recommended soil drenching with Ridomil @ 0.25% to disease infested and surrounding plants to control the spread of Rhizome rot disease and explained about bunch management techniques, fertilizer management to be followed after bunch emergence in banana.



On 22 October 2020, Shri. G. Shaliraju, Scientist (Entomology) and Dr. U. Shiva Kumar, RA(SSAC), KVK, Venkataramanna-gudem, conducted diagnostic visit in guava fields and identified sucking pests and anthracnose disease incidence. They recommended suitable remedial measures.

On 28 October 2020, Shri G. Shaliraju, Scientist (Entomology), KVK, V.R.Gudem conducted diagnostic visit of banana fields at Raavigudem and West Rgulakunta and observed sigatoka leaf spot disease. Spray of Propiconazole @ 1 ml/litre along with mineral oil @10 ml/litre of water was recommended.



Dr A.Devivaraprasad Reddy, Scientist (Fishery Science) and Shri G.Shali Raju, Scientist (Entomology), KVK, V.R.Gudem, visited Ravigudem, West Rekulakunta of Buttaigudem for follow-up visit to OFT and also diagnostic visit to IFS unit on 28 October 2020.

On 20 October 2020, P.Raja Sekhar, Scientist (SS&AC), KVK, Pandirimamidi, visited demo fields under Integrated Farming System at I.Polavaram village of Rampachodavaram mandal and different components like paddy, Azolla cultivation, Vegetables, cowpea and redgram on bunds of farm ponds, blackgram on paddy bunds being grown by farmers during *kharif* season and observed infestation of leaf folder in paddy and recommended spraying of neem oil @5ml/litre under organic farming package. They also provided vegetable seed kits for nutritional kitchen gardening.



On 26 October 2020, Dr N. Chiranjeevi, Research Associate (Plant Pathology) and P. Raja Sekhar, Scientist (SS &AC), KVK, Pandirimamidi, visited paddy fields at Tallapalem village of Rampachodavaram mandal. They observed paddy butterfly larvae infestation and recommended spraying of 0.5% neem oil under organic package of practice.

On 20 October 2020, Dr S.Adarsha, Scientist (Entomology) and Dr N. Chiranjivi, Research Associate (Plant Pathology), KVK, Pandirimamidi observed fall army worm damage in maize and yellow vein mosaic virus incidence in okra fields at Peddageddada village of Rampachodavaram mandal. Suitable control measures were recommended.



On 19 October 2020, Sri G.Sandeep Naik, Scientist and Head and Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited acid lime fields for diagnosis of pest and diseases at Gandikota village of Mylavaram mandal. They identified citrus canker and recommended spraying of Streptocyclin @ 1 gm + copper oxychloride @30 gm per 10 litre of water twice at 20 days interval for disease management.



On 21 October 2020, Sri G.Sandeep Naik, Scientist and Head and Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited mango fields for diagnostic visit at Ponnnavolu village of Sid-davatam mandal. Zinc deficiency was observed and recommended spraying of Zinc Sulphate @ 5g/litre to correct nutrient deficiency twice at 7 days interval.

On 20 October 2020, Smt. Suneetha Runjala, Research Associate (Home Science) and Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted follow-up visit to nutri-garden at Adireddipalli village of Mydukurmandal. The scientist suggested to go for organic farming by using vermicompost, neem oil, cow dung and wood-ash.



On 22 October 2020, Shri G.Sandeep Naik, Scientist and Head and Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta had visited papaya fields for diagnosis of pests and diseases at Nagasanipalli village of Khajipeta mandal. The scientists identified papaya ring spot virus disease and collar rot in papaya fields and recommended removal and destruction of infected plants followed by spraying of Imidachloprid @ 0.3 ml/litre or fipronil @2 ml/litre for controlling of vector and soil drenching with copper oxychloride @ 0.3% at collar region against collar rot disease.

On 27 October 2020, Sri G.Sandeep Naik, Scientist and Head, KVK, Vonipenta visited turmeric and onion fields for diagnosis of pests and diseases at Madirepalli village of Duvvur mandal. The leaf spot and rhizome rot diseases was observed in turmeric and basal rot disease in onion and recommended to spray Chlorothalonil @ 2 g/litre for leaf spot disease and soil drenching with Ridomil @ 0.25% and surrounding plants to control the spread of Rhizome rot disease and soil drenching with copper oxychloride @ 0.3% against basal rot disease in onion.

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Frontline Demonstrations

On 29 October 2020, Dr. V.Nagarjuna, Research Associate (Soil Science) and Ms Suneetha Runjala, Research Associate (Home Science), KVK, Vonipenta, initiated the FLD on micronutrient management in pomegranate for getting higher yields at D. Agraharam village of B.Mattam mandal. They provided critical inputs (boron and zinc sulphate) to beneficiary farmers and also explained the dosage and method of application to farmers.



On 22 October 2020, Shri G. Shaliraju, Scientist (Entomology) distributed critical inputs for the management of root knot nematode in guava at Kadaavalli village. Later, he visited RBK centre for live streaming of webinar on value added products of coconut and schemes of Coconut Development Board.



On 17 October 2020, Dr P. Lalita Kameswari, Senior Scientist & Head and Dr S.Adarsha, Scientist (Entomology), KVK, Pandirimamidi, initiated cluster frontline demonstration on pulses, bengalgram var. NBeG 49 under NFSM 2020-21 in Gummuluru village of Korukonda mandal. Explained about variety characters, yield potential, management practices to be followed in *rabi* and usage of effective biopesticides alternative to chemicals. Ms. Swarnalatha, VHA, and 25 farmers participated. They provided critical inputs.

On 23 October 2020, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta, visited acid lime orchards for follow up under FLD on flower regulation in acid lime at Ponnampalli village of Mylavaram mandal. The scientist explained about spraying of gibberillic acid, cycocel and potassium nitrate for flower regulation and getting higher yield in summer crop, followed by demonstration on spraying of potassium nitrate @ 10g/litre on acid lime.



General

Meetings

Dr.A.Sujatha, Dean of Student of Affairs & PI, IBDC, gave lecture on “Honeybee and Horticulture” on 17 October 2020 organized by “Progressive Horticulture” under Hortalk-45 series.



Er P.C.Vengaiah, Scientist (FST), HRS Pandirimamidi participated in “International Online Faculty Development Programme (FDP) On “Green Perspectives in Food Processing Sectors” from 5 to 21 October 2020 by National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Haryana.

Dr C.Madhumathi, Principal Scientist (Horticulture) & Head, CRS Petlur participated in one day Webinar on “Remote Sensing in Agriculture: Opportunities and Challenges” on 22 October 2020 organized by Horticultural College and Research Institute for Women, Trichy.

Dr M.Kavitha, Senior Scientist (Plant Pathology), CRS, Petlur participated in International webinar on “Plant Health management in changing world” organized by NIPHM, Hyderabad on 29 October 2020.

Dr M.Kavitha, Senior Scientist (Plant Pathology), CRS, Petlur participated in online 5 days training programme on “Quality control of microbial bio pesticides” organized by NIPHM, Hyderabad from 12 to 16 October 2020.

Scientists of HRS, Ambajipeta, Kovvur, Lam, V.R.Gudem and Anantapuram participated in the webinar on 28th meeting of Central Sub-Committee on Crop Standards, Notification and Release of Varieties for Horticultural Crops Meeting under the chairmanship of Dr. A.K. Singh, Deputy Director General (Horticulture), ICAR and presented the varietal release proposals of 4 coconut varieties on 28 October 2020.

Dr R. Nagaraju, Principal Scientist (Horticulture) & Head, HRS, Anantharajupeta attended 'Virtual Sensitization Programme on Knowledge Management in the Networked Digital Environment' organized by NAHEP, New Delhi on 17 October 2020.

Dr T. Naga Lakshmi, Scientist (Plant Pathology) and Dr.Y.Sharath Kumar Reddy, Scientist (Plant Physiology), HRS, Anantharajupeta participated in online training on "Banana Tissue Culture Production: Opportunities for New Entrepreneur" held on 20 October 2020, organised by College of Horticulture and Forestry, CAU, Phasighat.

Dr T. Naga Lakshmi, Scientist (Plant Pathology), HRS, Anantharajupeta participated in International E-Conference on "Protecting Plant Health in a Changing World" held on 29 October 2020, organised by NIPHM, Hyderabad.

Dr K Mamatha, Senior Scientist (Horticulture) and Dr R.Naga Lakshmi, Senior Scientist (Horticulture), HRS, Kovvur participated in the International Webinar on 'Harnessing the Potential of Tropical Tuber Crops under Changing Climate (HPTTC 2020) on 27 October 2020 organized by ICAR-CTCRI, Thiruvananthapuram, Kerala, India.

Dr B. Srinivasulu, Director of Extension and Zonal President, Central Zone, IPS along with Dr. K. Sessa Kiran, Assistant Professor (Plant Pathology) & Councilor, Central Zone, IPS participated in the Executive Council meeting of Indian Phytopathological Society, New Delhi on 31 October 2020. President and Councilors of various zones of IPS along with Dr. P. K. Chakraborty, Member, ASRB, Dr. Rashmi Aggarwal (IARI), Dean & Jt. Director (Edn), Secretary, Joint Secretary, Treasurer of IPS also participated and discussed various issues pertaining to Indian Phytopathological Society, New Delhi.

Visits

A team of National Horticulture Board, Hyderabad, visited Horticultural Research Station, Ambajipeta for Accreditation and Rating of Horticulture Nurseries under NHB scheme on 29 October 2020.



Dr G. Sravanthi, Scientist (Entomology), MRS, Nuzvid, visited Vellaturu Horticultural farm in Krishna district along with NHB team for accreditation and rating of nurseries on 31 October 2020.

HRD

Dr D. Sreedhar, Scientist (Horticulture) and Dr Y.Sharath Kumar Reddy, Scientist (Plant Physiology) attended 21 days National training programme on "Technology Interventions towards Transformation of Agriculture, Sericulture, Animal Husbandry and allied sectors into sustainable enterprises for Atmanirbhar Bharat" during 11 - 31 October, 2020.

Dr V Deepthi, Scientist (Agricultural Extension), KVK, Venkataramannagudem has participated one week national workshop on research methodology during 12 - 17 October 2020 conducted by Skill development center, Adikavi Nannaya University, Rajamahendravaram.

Ms. Srividya Rani.N, Scientist (Extension), KVK, Vonipenta, undergone 21 days online-training programme on "Communication and management skills for extension professionals" organised by NAARM, Hyderabad from 1 - 21 October 2020. Undergone the classes in online mode regarding transactional analysis, conflict management, ICTs for extension professionals, leadership, team orientation, values and competencies for extension professionals etc.

Publications

A laboratory reference manual for students, viz., "Laboratory Manual on Physiological, Biochemical and Molecular Aspects" was prepared and compiled by CoH, Anantharajupeta.



V. Govardhan Rao, D. N. Dhutraaj, K. D. Navgire, K. T. Apet and C. V. Ambadkar. 2020. Evaluation of Different Fungal and Bacterial Antagonists against *Fusarium* Wilt of Eggplant caused by *Fusarium oxysporum* f. sp. *Melongenae*. International Journal of Current Microbiology Applied Sciences. Vol 9 (9): 3610-18.

A Reshma, K Mamatha, BVK Bhagavan, A Snehalatha Rani and DR Salomi Suneetha.2020"Genetic divergence studies in seedling progenies of elephant foot yam *Amorphophalluspaeoniifolius* (Dennst.)". International Journal of Current Microbiology and Applied Sciences. Vol.9(10)

MamathaK , Naidu M M, Nagalakshmi R and Bhagavan B V K.2020.Studies on the response of different commercial banana cultivars of Andhra Pradesh to organic production. In Proceedings of Virtual International Conference on Advances in Food and Agricultural Science and Technology held on 31 October 2020. pp194.

MamathaK , Naidu M M, Nagalakshmi R and Bhagavan B V K.2020. Effect of micronutrients on growth and yield of banana varMartaman(aab, silk) under Godavari alluviums of Andhra Pradesh. Abstract published in the Proceedings of Virtual International Conference on Advances in Food and Agricultural Science and Technology held on 31 October 2020.pp. 59.

R. Naga Lakshmi, M. Lakshminarayana Reddy , A.V.D. Dorajee Rao , B.V.K. Bhagavan , P. Subbaramamma and K. Uma Krishna 2020. Effect of foliar spray of bulb inducing chemicals on tuberose cv. Prajwal. Paper published in the Proceedings of Virtual International Conference on Advances in Food and Agricultural Science and Technology held on 31 October 2020. pp . 183-193.

E. Padma , K. Uma Jyothi, G. Ramanandam, P. Subbaramamma and K. Uma Krishna. 2020. Effect of Varieties, Dates of Sowing, Growth Regulators and their Interaction on Growth and Yield of Dolichos Bean (*Lablab purpureus* L.) during off Season under Coastal Andhra Pradesh Conditions. *International Journal of Current Microbiology and Applied Science*. 9(9): 933-942.

Phone-in-Live Programme

Dr P.Madhavi Latha , Scientist (Agronomy), HRS, Vijayarai attended Phone-in-Live Programme on "Irrigation and Nutrition Management in Oil Palm plantation" at Doordarshan Kendra, Vijayawada on 26 October 2020.

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

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

Date	Activities
16.10.2020	Integrated crop management in papaya Shri G. Sandeep Naik, Scientist & Head, KVK, Vonipenta
17.10.2020	Improved management practices in acid lime Dr K.Venkata Subbaiah, Scientist, KVK, Venkataramannagudem
19.10.2020	Biocontrol methods for disease management in coconut Smt B.Neeraja, Scientist, HRS, Ambajipeta
20.10.2020	Package of practices and plant protection measures for high yields in moringa Dr K.M.Yuvaraj, Professor, CoH, Anantharajupeta
21.10.2020	Improved cultivation of marigold Dr P.Lalita Kameswari, Senior Scientist & Head, KVK, Pandirimamidi
22.10.2020	Cultivation of medicinal plants Dr D.Aparna, Scientist, HRS, V.R.Gudem
23.10.2020	Mushroom cultivation Sri G.Shaliraju, Scientist, KVK, Venkataramannagudem
26.10.2020	Affect of heavy rains in coconut and cocoa and amelioration measures Dr B.V.KBhagavan, Principal Scientist & Head, HRS, Ambajipeta
27.10.2020	Affect of heavy rains in fruit crops and amelioration measures Dr K.Ravindra Kumar, Scientist, HRS, Kovvur
28.10.2020	Affect of heavy rains in vegetable crops and amelioration measures Dr M.Ravindrababu, Senior Scientist, HRS, V.R.Gudem
29.10.2020	Affect of heavy rains in flower crops and amelioration measures Dr P.Lalita Kameswari, Senior Scientist & Head, KVK, Pandirimamidi
31.10.2020	Affect of heavy rains in aromatic crops and amelioration measures Dr C .Saradha, Principal Scientist & Head, HRS, Lam

Patron: **Dr T.Janakiram**, Vice-Chancellor

Editors: **Dr B. Srinivasulu**, Director of Extension

Dr R.V.S.K.Reddy, Director of Research

Dr K.Gopal, Registrar

Sub-Editor : **Sri K.Ratna Kishore Babu**, Public Relations Officer

Dr Y.S.R. Horticultural University

Administrative Office, Venkataramannagudem-534 101,

West Godavari district, Andhra Pradesh

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