



Dr YSRHU e-Newsletter

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

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Dr YSRHU e-Newsletter

1-15 October 2020



Fortnight Focus

- Events
- Education
- Research
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From Vice-Chancellor's Desk


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

“The soul of India lives in its villages” - Mahatma Gandhi

The Dr YSR Horticultural University, Venkataramannagudem has launched “Vice-Chancellor to Village” a flagship program “మన గ్రామం-మన విశ్వవిద్యాలయం” on 2 October 2020, the 150th Birth anniversary of Mahatma Gandhi, with the aim of transforming villages, by adopting one village by each Krishi Vigyan Kendras, Horticultural Research Stations, Colleges of Horticulture and Horticultural Polytechnics working under the Dr YSR Horticultural University.

A number of initiatives viz., on technical information to Dr YSR Rythu Bharosa Kendrams, Horticulture related skill training programmes to women village organizations (Self-Help Groups) and Anganwadi workers, Awareness programmes on Kitchen/Nutrition gardening (or) Household gardening to rural women/youth and farmers, and importance and growing of horticultural crops to school children belonging to adopted villages and exposure visits for farmers, rural women/youth and school children to the adopted institutes of the university are planned under this programme. Besides, awareness to farmers on quality seed and planting material, soil testing, latest technical know-how production technologies etc. are also likely to be imparted to stakeholders on horticultural crops.

The vision of this programme is to enhance, **“Nutrition per Acre and Health per Acre”.**


Dr T. Janakiram
Vice-Chancellor

The Events

Mahatma Gandhi 150th Jayanthi Celebrations & Launching of “Vice-Chancellor to Village” program “మన గ్రామం-మన విశ్వవిద్యాలయం”

150th birth anniversary of Mahatma Gandhi was celebrated at Administrative office, all the constituent colleges, Research Stations and Krishi Vigyan Kendras of Dr. YSRHU on 2 October 2020. Dr T.Janakiram, Hon'ble Vice-Chancellor, Dr.YSRHU paid floral tributes to Bapuji at Administrative office. All the university officers and staff have participated in the program.



On the occasion of 150th birth anniversary of Mahatma Gandhi, Dr.T.Janakiram, Hon'ble Vice-Chancellor, Dr.YSRHU has launched a flagship program “Vice-Chancellor to Village” program “మన గ్రామం-మన విశ్వవిద్యాలయం” in the presence of all the university officers, teaching and non-teaching staff of Administrative Office and various institutes under Dr.YSRHU in a virtual mode.

Visit of Hon'ble Vice-Chancellor to Village “మన గ్రామం-మన విశ్వవిద్యాలయం” as a part of “Vice-Chancellor to Village” program on 02 October 2020. Dr T.Janakiram Hon'ble Vice-Chancellor has visited Pandugudem village (tribal village)of Buttaigudem mandal in West Godavari District and participated in Farmers interaction meeting. In this program Dr



E. KarunaSree, Principal Scientist and Head, KVK, Venkataramannagudem welcomed all the dignitaries and participants to the program and briefed about the KVK, activities. The programme was inaugurated by Dr T. Janakiram, Hon'ble Vice-chancellor, Dr. Y.S.R. Horticultural University by paying floral tributes to Mahatma Gandhiji and addressed the farmers on importance of villages in Indian economy. Dr B. Srinivasulu, Director of Extension, Dr. YSRHU explained about different KVK activities in pandugudem village and also given suggestions for further development of the village. Dr. R.V.S.K. Reddy, Director of Research, Dr. YSRHU, stressed on empowerment of women in the village development and role of women in farming. Sri Ratna Kishore, PRO, Dr.YSRHU addressed the farmers. Community Kitchen Garden programme was initiated by planting Coconut, Acidlime, guava, Moringa, Curry leaf and Mango plants and laying kitchen garden in Anganwadi centre of Pandugudem. On the same day distributed different crop inputs like organic manure to the cashew farmers under PKVY project, pineapple suckers, fodder seed, chilli seed under minikit trials. KVK scientific staff and more than 40 tribal farmers have participated.

Webinars

Dr YSRHU-Farmers Advisory Cell conducted online state-level webinar on “Management of Coconut Pests and Diseases through Bio-control Methods ” on 9 October 2020 under the Chairmanship of Dr T.Janakiram, Vice-Chancellor as 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-Farmers Advisory Cell conducted online state-level webinar on “Social Reorganization and empowerment of women through SHGs/Women FPOs” on 15 October 2020 on the occasion of ‘Mahila Kisan Diwas’ under the Chairmanship of Dr T.Janakiram, Vice-Chancellor. University Officers and faculty of Dr YSRHU, Officers from Department of Horticulture and farmers participated in the webinar and interacted with participants. Later women farmers were felicitated at respective KVKs on this occasion. Dr.R.V.S.k.Reddy, Director of Research gave a lecture on “Role women in production of coconut value added products”.



KVK, Venkataramannagudem



KVK, Pandirimamidi



KVK, Periyavaram



KVK, Vonipeta

Education

NSS Activites



CoH, Venkataramannagudem

“2Km plog run” programme was conducted by respective NSS teams of CoH, Venkataramannagudem and Anantharajupeta on the eve of Gandhi Jayanthi celebrations.



CoH, Anantharajupeta

COVID -19 Awareness Pledge was taken at CoH, Venkataramannagudem and CoH, Ananatharaupeta on 8th October 2020 as a part of NSS Activity.



CoH, Venkataramannagudem



CoH, Anantharajupeta

Webinar

Horti Business Incubation Centre, College of Horticulture, Venkataramannagudem has organised a webinar on "Intellectual Property Rights and Technology Commercialization: Pivotal for successful business " on 12 October 2020 to create awareness among faculty, scientists, researchers, students and entrepreneurs about Intellectual Property and technology commercialization which is crucial for any successful enterprise. About 894 participants from all over India have registered for the webinar. Dr T.Janakiram, Hon'ble Vice Chancellor has graced the programme as Chief Guest. Eminent speakers Dr Sanjeev Saxena, ADG (IP&TM), ICAR and Dr Sudha Mysore, Chief Executive Officer, Agri Innovate India Ltd., ICAR, New Delhi have delivered lectures on "Essentials of Intellectual Property for Entrepreneurs and Startup" and "Commercialisation of technologies through licensing " respectively. Dr.K.Uma Jyothi, Associate Dean has presided over the function and Dr. K.Uma Krishna was the moderator for webinar. The programme was organized by Dr.R.V.Sujatha, Associate Professor and Dr V.Sudha Vani, Associate Professor as Convenors and Sri M.Uday Bhaskar, Contractual Teacher and Sri B. Ambedkar, Teaching Associate as Co-Convenors.



Training programme for lab Attendants or lab Assistants



A training programme for lab attendants / lab assistants of College of Horticulture, Venkataramannagudem was conducted in the college from 5 to 15 October 2020. A total of 19 trainees participated in the programme. They were trained on operation and maintenance of instruments and equipment, cleaning and handling of glassware, handling of chemicals present in the laboratories of different departments. Training was also given on preparation of standard stock solutions and good laboratory practices. Dr.T. Janakiram,Vice-Chancellor, Dr.YSRHU attended the inaugural as well as valedictory functions of the programme. Dr. M. Paratpara Rao, Assistant Professor (GPBR) and Dr. K. Sivakesava Rao, Teaching Associate (Biochemistry) coordinated the training.

RHWEF Activities

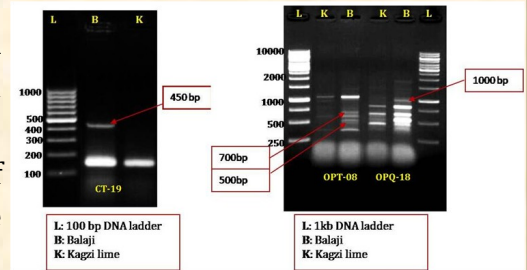
On 12 October 2020, KVK Venkataramannagudem conducted online review meeting to 42 RHWEF students placed in West Godavari District by Dr E. Karuna Sree, Principal Scientist & Head and Dr T.Vijaya Nirmala, Scientist (Veterinary Science). RHWEF students presented their host farmer details and field activities conducted during the fortnight.

On 13 October 2020, Dr K.Venkata Subbaiah, Scientist (Horticulture) KVK, Venkataramannagudem explained about cultivation practices of important horticultural crops, and Dr.T.Vijaya Nirmala, Scientist (Veterinary Science) explained about innovative technologies in animal husbandry, management practices of dairy, sheep and poultry rearing to 42 RHWEF horticulture students.

Research

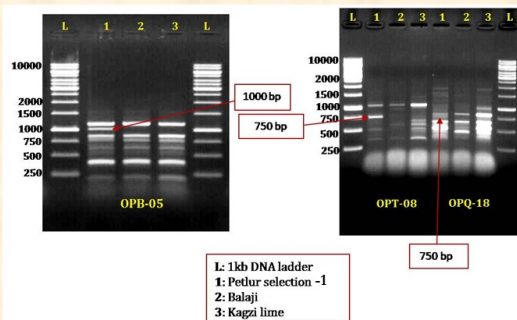
DNA fingerprinting of acidlime cv. Balaji

DNA fingerprinting of acidlime genotypes **Balaji and Kagzi lime** were profiled with both SSR and RAPD markers. Based on allelic separation of SSR marker and RAPD markers distinguished the acidlime genotypes **Balaji and Kagzi lime**. Out of 31 markers used for DNA profiling of acidlime genotypes, the SSR marker CT19 (450BP) and RAPD markers viz., OPA01 (1600bp, 1100bp, 750bp); OPC01 (1000bp, 650bp); OPT08 (700BP, 500 BP); OPQ18 (1000 BP) and OPB05 (100BP) specifically amplified in Balaji.



DNA fingerprint pattern generated with SSR & RAPD markers

DNA fingerprinting of acidlime cv. petlur selection-1



DNA fingerprint pattern generated with RAPD markers

DNA fingerprinting of acidlime genotypes **Petlur Selection, Balaji and Kagzi** were profiled with both SSR and RAPD markers. Based on allelic separation of RAPD markers OPT08, OPQ18, OPA05, OPG16, OPO04, OPB05 and OPC01 clearly displayed allelic differences in acidlime genotypes, **Petlur Selection-1, Balaji and Kagzi lime**. Out of 28 markers used for DNA profiling of acidlime genotypes, the RAPD markers viz., OPB05 (1000bp); OPC01 (1100bp, 600bp); OPT08 (750 bp); OPQ18 (750 bp) specifically amplified in **Petlur Selection-1**.

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



As part of Biological management strategies against Rugose spiralling whitefly Sri. Jadav Pradip, farmer of Varasinbhai village of Gujarat state procured 10,000 eggs of Predator *Pseudomallada astur* from Biocontrol lab HRS, Ambajipeta.

A total of 294.3cm rainfall was received during the 1st fortnight of October at HRS, Kovvur and all the experimental plots were inundated for four days. Necessary ameliorative measures like soil drenching with Copper oxychloride @3g/lit and spraying with 13-0-45 @ 5g/litre was taken up after draining the excess water.



Extension Activities

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

Sl.No.	Institute under Dr.YSRHU	Name of Adopted Village	Mandal & District
Krishi Vigyan Kendras			
1	Krishi Vigyan Kendra,V.R.Gudem	Pandugudem	Buttaiahgudem (M), West Godavari dist
2	Krishi Vigyan Kendra, Pandirimamidi	Pandirimamidi Kota	Maredumilli (M), East Godavari dist
3	Krishi Vigyan Kendra, Periyavaram	C.C.Kandriga	Venkatagiri (M), SPSR Nellore dist
4	Krishi Vigyan Kendra,Vonipenta	Sunkulagaripalli	Mydukur (M), Kadapa dist
Horticultural Research Stations			
5	Horticultural Research Station, Ambajipeta	Avidi	Kothapeta (M), East Godavari dist
6	Horticultural Research Station, Kovvur	Ravurupadu	Tallapudi (M), W.Godavari Dist
7	Horticultural Research Station, Pandirimamidi	Tamarapalli	Rampachodavaram (M), East Godavari
8	Horticultural Research Station, Venkataramannagudem	Jaggannapeta	Tadepalligudem (M), West Godavari dist
9	Horticultural Research Station, Chintapalli	Gondipakalu	Chintapalli (M), Visakapatnam dist
10	Post Harvest Technology Research Station, Venkataramannagudem	Bandarlagudem	Buttaiahgudem (M), West Godavari dist.
11	Horticultural Research Station, Peddapuram	R.B.Patnam	Peddapuram, East Godavari dist.
12	Horticultural Research Station, Lam	Venigandla	Pedakakani (M), Guntur dist.
13	Horticultural Research Station, Darsi	Chandalaru	Darsi (M), Prakasam dist
14	Mango Research Station, Nuzvid	Raavicherla	Nuzvid mandal, Krishna Dist
15	Cashew Research Station, Bapatla	Bethapudi	Bapatla (M), Guntur dist.
16	Horticultural Research Station, Vijayarai	Kodalarapalem	Pedavegi (M), West Godavari dist
17	Citrus Research Station, Tirupati,	Theerthampadu	Dakkili (M), SPSR Nellore
18	Horticultural Research Station, Anantapuramu	Neelampalli	Bukkarayasamudram (M), Anantapuram dist
19	Horticultural Research Station, Anantharajupeta	VPR Kandrika	Rly.Kodur (M), Kadapa Dist.

Sl.No.	Institute under Dr.YSRHU	Name of Adopted Village	Mandal & District
20	Horticultural Research Station, Mahanandi	Gopavaram	Mahanandi (M), Kurnool Dist
21	Citrus Research Station, Petlur	Theerthampadu	Dakkili (M), SPSR Nellore dist
22	HRS, Madanapalli	Bayyappagaripalle	B.Kothakota (M), Chittoor dist
23	HRS, Pulivendula	Ippatla	Lingala (M), Kadapa dist
Constituent Colleges of Horticulture			
24	College of Horticulture, V.R.Gudem	Prakasaraopalem	Nallajerla (M), West Godavari dist
25	College of Horticulture, Anantharajupeta	Nagavaram	Chitvel (M), Kadapa Dist
26	College of Horticulture, Parvathipuram	Seethampeta	Kurupam (M), Vizianagaram Dist
27	College of Horticulture, Chinalataripi	Oguru	Kandukur (M), Prakasam dist
Constituent Horticultural Polytechnics			
28	SKPP Horticultural Polytechnic, R.C.Puram	Muramanda	Kadiyam (M), East Godavari
29	Horticultural Polytechnic, Nuzvid	Annavaram	Nuzvid (M), Krishna dist
30	Horticultural Polytechnic, Kalikiri	Medikurthi	Kalikiri mandal, Chittoor dist.
31	SSPG Horticultural Polytechnic, Madakasira	Y.B.Halli	Madakasira, Anantapuram Dist
Affiliated Colleges of Horticulture			
32	Sri Krishnadevaraya College of Horticultural Sciences, Alamuru	M.B.Palli	Rapthadu (M), Anantapuram dist
33	NS College of Horticultural Sciences, Markapur	Gobburu	Peddaraveedu (M), Prakasam dist.
34	KBR College of Horticulture, Seelamvaripalli	Nallamadugula	C.S.Puram (M), Prakasam dist
35	JC Diwakar Reddy Horticultural College, Tadipatri	Jutur	Peddapappur (M) Anantapuramu dist.
Affiliated Horticultural Polytechnics			
36	Nova College of Horticultural Polytechnic, Jangareddygudem	Vegavaram	Denduluru (M), West Godavari dist.
37	Sadineni Chowdaraiah Horticultural Polytechnic, Chilakaluripeta	Maddirala	Chilakaluripet (M), Guntur dist
38	NRR Horticultural Polytechnic, Saluru	Neliparthi	Salur (M), Vizianagaram dist
39	SBVR Horticultural Polytechnic, Badvel	Nandipalli	Badvel (M), Kadapa dist.
40	Bellamkonda Lakshmi Ranga Private Horticultural Polytechnic	Jaflapuram	Podili (M), Prakasam Dist
41	SR Horticultural Polytechnic, Koilkuntla	Amadala	Koilakuntla (M), Kurnool dist
42	Sri Venkateswara Horticultural Polytechnic, Etcherla	Santha Seetarampuram	Etcherla (M), Srikakulam dist

Training Programmes

On 7 October 2020, Online training programme on “Scientific rearing of Backyard poultry” was organized for practicing farmers, rural youth and extension functionaries by KVK, Periyavaram. Dr B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram briefed the aim of the training programme. Dr. S.Shakila, Professor and Head, Department of Poultry Sciences, CVSc, Tirupati attended the training programme as resource person and explained regarding improved breeds of poultry which are suitable for backyard rearing, their feed, housing and health management. Dr.P.Manjari, Scientist, Veterinary Science, KVK-Periyavaram coordinated the programme and explained regarding common diseases of poultry and stressed the importance of post-mortem examination for better identification and treatment of infected birds.

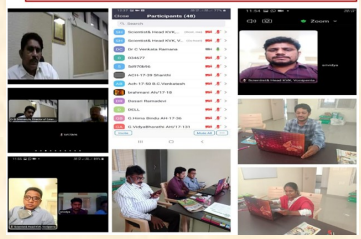


On 13 October 2020, Virtual training programme on “Best Management practices in Chilli, Brinjal & Bhendi under Heavy rain fall conditions” was organized for practicing farmers, rural youth and extension functionaries by KVK, Periyavaram. Dr B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram briefed the aim of the training programme. Dr B. Srinivasulu, Director of Extension addressed the participants and explained about the need to take up timely management practices for pest and disease in vegetables during heavy rain fall conditions. Dr C.V. Ramana, Senior Scientist (Horticulture), HRS, Lam, Guntur as a resource person explained regarding varietal selection and variety’s suitable to SPSR Nellore region and nursery management, INM, IPM, IDM which includes viral disease management and cost economics of chilli nursery cultivation. Ms. Y. Swarupa, Research Associate, Plant protection, KVK- Periyavaram explained in detail about Pests and diseases IPM and IDM practices and stressed about the importance of integrated management practices in brinjal and bhendi. Ms. K. Sravani, RA, Extension, KVK, Periyavaram created Awareness on farmers bills - 2020 and explained briefly about the bills recently introduced by GOI. On the afternoon of 13 October 2020, Dr B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram has visited adopted village C.C.Kandriga under the flagship programme 'Vice-Chancellor To Village and distributed vegetable minikits and enlightened the farmers regarding Horticulture crops and nutrition.

On 9 October 2020, Sri G.Sandeep Naik, Scientist (Plant Pathology) and Head, KVK, Vonipenta attended as technical resource person in farmers training program on “Best management practices in Onion” organised by Department of Horticulture, at RHTI, Kadapa. Scientist addressed the gathering on cultivation aspects, nursery management, fertilizer management, water management, harvesting, grading and packing.



Virtual training program on Best management practices in Chillies and Tomato KVK, Vonipenta in coordination with DRC, Kadapa



On 01 October 2020, KVK, Vonipenta conducted virtual training programme on “Best management practices in Chillies and Tomato”. Dr B. Srinivasulu, Director of Extension suggested to conduct training programmes on value addition to fruits and vegetables and circulate the training material to all RBK’s as e- publication and Sri Chandra Naik, PD, ATMA addressed the VAA’s and VHA’s to provide the technical information to farmers through RBK’s. Dr C.Venkata Ramana, Senior Scientist (Horticulture), addressed the farmers on cultivation aspects and varieties, Nursery management, Fertilizer management, Water management pests and disease management in Chillies, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta explained on fertilizer management, INM practices in Tomato, micro-nutrient deficiency and their management. Sri G.Sandeep Naik, Scientist (Plant Pathology) and Head from KVK, Vonipenta addressed the participants on pest and disease management in Tomato. Srividya Rani.N, Scientist (Extension) proposed vote of thanks. A total of 48 VHAs, VAAs and farmers attended the programme.

On 12 October 2020, KVK, Vonipenta conducted off campus training program on “Pests and disease management in Onion” at Madirepalli village of Duvvuru mandal. Sri G.Sandeep Naik, Scientist (Plant Path) & Head and Dr V. Nagarjuna, Research Associate (Soil Science) explained about the cultivation practices viz., seed treatments, fertilizer management, pests, diseases and their management and precautions to be taken during heavy rains and also created awareness on Farmers Bill 2020 (Empowerment & Protection) to the farmers.



On 13 October 2020, KVK, Vonipenta conducted off-campus training program on Pests and disease management in blackgram at Chowtapalle village of Proddutur mandal. Sri G.Sandeep Naik, Scientist (Plant Pathology) & Head and Dr V. Nagarjuna, Research Associate (Soil Science) explained about the cultivation practices viz., seed treatment, fertilizer management, water management, weed management pests, diseases and their management in Blackgram and Research Associate (SSAC) explained about cultivation practices in Bengalgram and also created awareness on Farmers Bill 2020 (Empowerment & Protection) to the farmers.

On 7 October 2020, Sri G. Sandeep Naik, Scientist (Plant Pathology) & Head and Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta participated in farmers training program and joint diagnostic field visit in paddy fields cultivated under Polambadi programme at Kalvapalli village of Gopavaram mandal. Scientists explained about pests and disease management, fertilizer and water management in Paddy. In this program DPD, ATMA, AO’s from FTC have participated.



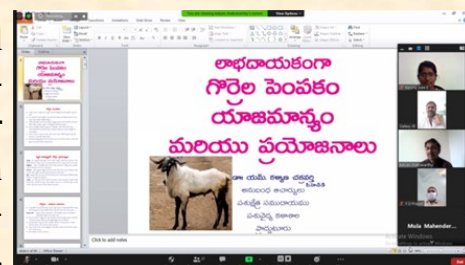
Dr R.Rajyalakshmi, Senior Scientist (Horticulture), MRS, Nuzvid attended meeting on ‘Fruits and Vegetables export’ organized by Department of Horticulture, Nuzvid along with farmers and other officials of Krishna district on 9 October 2020.

On 9 October 2020, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta attended Thotabadi programme organized by Department of Horticulture at Konnarajupalle village of S.A.Kasinayana mandal. Scientist explained about banana cultivation practices, INM, IPM and disease management.



Dr A.Devivaraprasad Reddy, Scientist, KVK, V.R.Gudem has attended Dr YSR Mastya Sagu Badi (MSB) program as resource person organized by the Department of Fisheries, Government of Andhra Pradesh at West Vipparru of Pentapadu mandal and Amberpeta of Pulla mandal, West Godavari District on 09 and 10 October 2020 respectively. Interacted with farmers and created awareness about the prevalence, precautions to be taken for the white spot syndrome virus (WSSV) and whitegut diseases occurring in the shrimp. Also explained about the importance of water quality testing, bio-security in aquaculture and the essence of probiotics in aquaculture.

On 15 October 2020, KVK, Venkataramannagudem conducted online virtual training program on “Scientific management practices for profitable sheep and goat rearing” to rural youth. Dr M.Kalyan Chakravarthy, Associate Professor, Livestock Farm Complex, NTR College of Veterinary Science, Gannavaram explained about types of rearing methods, housing management, different improved sheep and goat breeds, selection of ewes and rams for breeding, ram lamb rearing, Dr T.VijayaNirmala, Scientist (Veterinary Science) KVK, V.R.Gudem explained about different viral, bacterial, parasitic, nutrient deficiency diseases in sheep and goat, deworming, vaccination schedule, cultivation practices of improved fodders & fodder trees, concentrate feed preparation for feeding of sheep and goat.



On 06 October 2020, KVK, Pandirimamidi has conducted one day off-campus training programme on viral disease management in chilli at Ramavaram village of V.R. Puram mandal to the practicing chilli farmers. In this training programme VAAs, volunteers and 26 farmers attended. Dr N. Chiranjeevi, RA (Plant Pathology) and P. Raja Sekhar Scientist (SS&AC) explained about the viral diseases, symptoms, losses and management practices in chilli.

On 09 October 2020, KVK, Pandirimamidi has conducted on campus training programme to the village animal husbandary assistants on seasonal management practices in farm animals. Scientists explained about seasonal diseases in farm animals, pregnancy care, dietary aspects etc. Dr. N. Chiranjeevi (Plant Pathology i/c Veterinary Sciences) co-ordinated the programme. Dr Sai Krishna (Veterinary Surgeon), Rampachodavaram, D. Srinivas (Veterinary Surgeon), Gangavaram, KVK staff and 15 AHA's have participated.



On 15 October 2020, Dr. N. Chiranjeevi, Research Associate (Plant Pathology), KVK, Pandirimamidi has participated as a resource person to the training programme on APIIATP at D.N. Palem village of Devipatnam mandal conducted by Department of Horticulture. Explained about new farm bills act, management practices in cashew and visited the fields. In this programme, M. Anand (APD), Rampachodavarm, M. Ramesh (HO), Rampachodavaram and 90 farmers participated.



On Farm Trials

On 6 October 2020, Ms Y. Swarupa, Research associate (Entomology), KVK, Periyavaram visited acid lime orchard at Mannur and Subramanyam Village of Balayyapalli mandal and distributed carbofuran 3G granules as a part of OFT – Nematode management in acid lime orchards at Subramanyam Village of Balayyapalli mandal and suggested to apply carbofuran 3G @ 50g/plant. Distributed imidacloprid 17.8 SL as a part of FLD -Management of snow scale in acid lime at Mannur Village of Balayyapalli mandal and suggested to spray Imidacloprid @ 0.5ml/ litre of water.



On 6 October 2020, Sri G. Sandeep Naik, Scientist (PI Path) & Head and Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited guava fields for followup cultivated under IIHR SC Subplan and OFT “Management of Root knot nematode in Guava” at Palugurallapalli village of B.Matham mandal. Scientists explained about pruning techniques in guava and also observed mealybug infestation. Suggested to spray profenophos@2ml /litre.

On 8 October 2020, Sri G.Sandeep Naik, Scientist and Head and Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited tomato fields for follow up under OFT at Sunkulugaripalli village of Mydukur mandal. Scientist explained regarding the INM and IPDM practices to be followed in tomato for getting higher yields.



Krishi Kalyan Abhiyaan-3



On 8 October 2020, KVK, Vonipenta conducted Krishi Kalyan Abhiyaan-3 with a theme of Diversified farming systems at Nagisetipalli village of B. Matham mandal. Sri G.Sandeep Naik, Scientist and Head and Dr V. Yugandhar, Research Associate (Horticulture) addressed the farmers on application of carbofuran 3G@160g per cent nursery bed to control gallmidge damage, clipping of leaf tips before transplanting, pulling of rope to control leaf folder, pest and disease management, fertilizer management and water management in Paddy. Dr.V.Yugandhar, RA (Horti.) addressed the farmers on importance of Integrated Farming system and models of IFS. Divya, VAA, Nagasanipalli and 30 farmers were participated.

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 at Alimili (V), Balayapalli (M), SPSR Nellore (Dt) on 12 October 2020. Observed that bittergourd crop was affected by alternaria leaf blight (*Alternaria cucumerina*) and fruit fly (*Bactrocera dorsalis*) and suggested the farmer to spray carbendazim 12 % + mancozeb 63% WP @ 2.0 g/litre of water and installation of fruit fly traps @ 5/acre.



Dr R. Nagaraju, Principal Scientist (Horticulture) and Head, HRS, Anantharajupeta reported crown rot of date palm after receipt of continuous rains. Toppling of the crown from the palm observed and fronds became desiccated turning to brown at the base leaving foul smell.

On 03 October 2020, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited banana fields for diagnosis of pests and diseases at Vonipenta village of Mydukur mandal. Scientist explained about bunch management techniques, fertilizer management to be followed after bunch emergence and also observed sigatoka leaf spot and suggested to spray Chlorothalonil @ 0.2% or Propiconazole @0.1% + mineral oil @ 1%.



On 06 October 2020, Sri G.Sandeep Naik, Scientist and Head and Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited turmeric fields for diagnosis of pests and diseases at T.Kothapalli village of Mydukur mandal. The scientists observed the leaf spot and rhizome rot diseases and suggested to spray Chlorothalonil @ 2 g/l for leaf spot disease and drenching with Ridomil @ 0.25% to the disease infested and surrounding plants to control the spread of Rhizome rot disease.

On 08 October 2020, Sri G. Sandeep Naik, Scientist, (Plant Pathology), Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Cabbage field for diagnosis of pests and diseases at Sunkulugaripalli village of Mydukur mandal. Scientists explained regarding the INM and IPDM practices to be followed in Cabbage for getting higher yields and precautions to be taken during heavy rains.



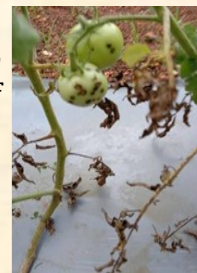
On 09 October 2020, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited tomato fields for diagnosis of pest and disease incidence at K.N.Kottala village of S.A.Kasinayana mandal. Observed septoria leaf spot in tomato and suggested to spray mancozeb @ 0.2% to manage the disease.

On 10 October 2020, Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted a diagnostic field visit in banana at Musalinayanapalli village of Mydukur mandal. Observed the Sigatoka leaf spot and suggested to spray of Propiconazole @ 0.1 % for management of the disease.



On 14 October 2020, Dr V. Nagarjuna, Research Associate (Soil Science) and Dr V. Yugandhar, KVK, Vonipenta conducted a diagnostic field visit in Chilli fields at T. Kothapalli village of Mydukur mandal. Identified Zinc deficiency and suggested to spray of zinc sulphate @ 2 gm/litre twice at 7-10 days interval for correcting the nutrient deficiency.

On 14 October 2020, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted a diagnostic field visit in tomato at Mittamanupalli village of Mydukur mandal. Observed bacterial leaf spot and early blight in tomato and suggested to spray plantomycin @ 1 g/10 litre and propiconazole @ 0.1 % for management of the disease.



Front Line Demonstrations

On 6 October 2020 Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta interacted with farmer for conducting the Front Line Demonstration on “Micronutrient management in Pomegranate” to enhance crop yields at D. Agrahram and Rekulakuntla Villages of B. Mattam mandal. The scientist explained the importance of micronutrient management in pomegranate for getting higher yields.



On 8 October 2020, Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted a follow up visit for FLD on Integrated Nutrient management in turmeric for correcting the nutrient deficiency at Settivaripalli village of Mydukur mandal. The Scientist identified leaf spot and suggested application of Chlorothalonil @ 2.0 gm /litre for managing the disease.

On 9 October 2020, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited banana fields for follow up under FLD at K.N.Kottala village of S.A.Kasinayana mandal. Scientist provided the micronutrient mixture to the beneficiary farmers and explained about the recommended fertilizer application based on soil test results, weed and water management in banana.



On 1 October 2020, Dr S. Adarsha (Entomology) and Dr. N. Chiranjeevi, RA (Plant Pathology), KVK, Pandirimamidi has conducted follow-up visit to chilli fields under FLD on “Viral disease management in chilli” at sabarikothagudem and potlavayigudem villages of V.R Puram mandal. Chilli variety LCA 625 is demonstrated and the crop is at early vegetative stage.

Survey

On 6 October 2020, Ms K. Sravani, Research Associate (Agriculture Extension), KVK, Periyavaram made a visit to Mannuru village, Balayyapalli mandal for data collection on 'Study on technological gap in recommended practices in acid lime production by farmers' in Nellore district of Andhra Pradesh.



General

Meetings

Dr C.Madhumathi, Principal Scientist (Horticulture) and Head, CRS, Petlur participated in International webinar series on "Moringa – A super Food – Boon to Mankind" from 5 to 7 October 2020 organized by Department of Vegetables in association with EDII Periyakulam Horti Business Incubation Forum, Periyakulam, Tamil Nadu.

Dr M.Kavitha, Senior Scientist (Plant Pathology), CRS, Petlur and Dr T. Naga Lakshmi, Scientist (Plant Pathology), HRS, Anantharajupeta participated in online 5 days training programme on "Plant Health Management in protective cultivation " organized by NIPHM, Hyderabad from 5 to 9 October 2020. Dr. M. Ravindra Babu, Senior Scientist, (Horticulture), HRS, V.R.Gudem delivered a lecture on "Protected cultivation – opportunities and challenges" in online training programme on "Plant Health Management on Protected Cultivation" on 5 October 2020.

Dr T. Naga Lakshmi, Scientist (Plant Pathology), HRS, Anantharajupeta participated in the International E-Conference on "Multidisciplinary approaches for plant disease management for achieving sustainability in agriculture" held from 6 to October 9 2020, organised by Department of Plant Pathology, College of Horticulture, Bengaluru (University of Horticultural Sciences, Bagalkot).

Dr Y.Sharath Kumar Reddy, Scientist (Plant Physiology), HRS, Anantharajupeta attended National webinar on "Transforming agricultural education institutions for better future through industry academia collaborations" conducted by Acharya N.G.Ranga Agriculture University, Lam, Guntur. Andhra Pradesh, on 7 October 2020.

Dr Y.Sharath Kumar Reddy, Scientist (Plant Physiology), HRS, Anantharajupeta attended online meeting on "Enhancing the input use efficiency in papaya and net house cultivation of papaya" under the chairmanship of AICRP Project Co-ordinator Dr.Prakash Patil, on 8 October 2020.

Dr Y.Sharath Kumar Reddy, Scientist (Plant Physiology), attended online meeting of AICRP Pre-Group discussion on "Evaluation of different root stocks of mango for problematic soils" on 12 October 2020.

Dr T. Naga Lakshmi, Scientist (Plant Pathology), HRS, Anantharajupeta participated in National Webinar on "Nanotechnological Interventions in Agriculture", on 14 October 2020 Organized by SKN Agriculture University, Jaipur (Rajasthan).

Dr Y.Sharath Kumar Reddy, Scientist (Plant Physiology), attended Zoom app meeting on "Food safety and nutritional security under Global summit of overseas and resident Indian scientist and academicians", VAIBHAV, Vaishwik Bharatiya vigyanik summit on 14 October 2020.

Scientists of HRS, Ambajipeta participated in the webinar on “Biopesticides – Registration and quality control; issues – way forward” on 6 October 2020 organized by ICAR – NBAIR, Bengaluru.

Dr. P. Ashok, Senior Scientist, (Horticulture), HRS, V.R.Gudem participated in webinar on “Imaging sensor based phenol typing of crops” organized by ICAR – IISR on 14 October 2020.

On 03 October 2020, All the scientific staff of KVK, Venkataramanagudem attended meeting on interaction with KVKs by Hon’ble Union Agricultural Minister on Farmers bill Acts which are implemented by Government of India.



On 02 October 2020, KVK Venkataramanagudem staff have participated in the programme organized virtually by ICAR-ATARI-X on the eve of 150th Birth Anniversary of Mahatma Gandhi and special lecture was given by Dr. S.N. Puriji Chairman, QRT for Zone –X.

On 03 October 2020, Dr E.KarunaSree, Principal Scientist & Head, Dr K.Venkata Subbaiah , Scientist (Horticulture) and Sri G.ShaliRaju, Scientist (Entomology), KVK, V.R.Gudem attended Training & Visit Monthly workshop for the month of October, 2020 organized by RARS, Maruteru, ANGRAU and discussed about the various crops condition in the district.

Visits

The Central Evaluation team for RKVY-RAFTTAR visited the Electronic wing and community Radio and Mini ATIC cum conference hall established by KVK, Venkataramannagudem on 14.10.2020 and expressed satisfaction towards the activities taken under RKVY in the university campus.



Dr YSRHU Year of Coconut 2020-21 Activities

Dr B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram organized Coconut saplings plantation programme at adopted Anganwadi centers of Venkatagiri mandal on 11.10.2020. Dr B.Govinda Rajulu acknowledged the Anganwadi teachers regarding the nutritional benefits of coconut and encouraged them to have coconut palms in their backyards. This programme was conducted as part of Year of Coconut 2020-21 celebrations.



HRD

Dr V.Deepthi, Scientist (Agricultural Extension), KVK, Venkataramannagudem participated seven days short training course on “Communication and personality development” organized by Division of SAF, Faculty of Forestry, SKUAST-Kashmir from 29 September to 5 October 2020

Dr V Deepthi, Scientist (Agricultural Extension), KVK, Venkataramannagudem participated and presented paper (poster) on “Green thumbs get an organic imprint: a goodness of case study on organic farming” in the online International Web Conference on “Perspective on Agricultural and Applied Sciences in COVID-19 Scenario (PAAS-2020)” Organized by the Agricultural & Environmental Technology Development Society (AETDS), U.S. Nagar, Uttarakhand, India; Bangladesh Agricultural Research Institute (BARI), Gazipur, Bangladesh; Shobhit Institute of Engineering &

Technology, Meerut, India; Soils, Water and Environmental Res. Inst, (SWERI), Agriculture Research Center, (ARC) Giza, Egypt, Rajiv Gandhi Central University, Itanagar, and Cortevaagriculture on October 4-6, 2020.

Publications

Nagalakshmi, T., Nagaraju, R. and C H. Ruth, 2020. "Evaluation of new fungicides for the management of downy mildew, *Pseudoperonospora cubensis* in Musk melon" poster presented in International E-Conference on "Multidisciplinary approaches for plant disease management for achieving sustainability in agriculture".

Nagalakshmi, T., Sarada Jayalakshmi Devi R., Gopal, K. and Khayum Ahemmad, S. 2020. "Integrated management of purple leaf blotch of onion caused by *Alternaria porri*". poster presented in International E-Conference on "Multidisciplinary approaches for plant disease management for achieving sustainability in agriculture".

G Sarada, K Manjula, T Muralikrishna, K Gopal, B Ravindra Reddy and R Nagaraju. 2020. Screening of muskmelon genotypes against melon fruit fly, *Zeugodacus cucurbitae* (Coquillett) under field conditions. *Journal of Pharmacognosy and Phytochemistry*, Sp 9(3): 57-62.

G Sarada, K Manjula, T Muralikrishna, K Gopal and B Ravindra Reddy. 2020. Fruit fly trap catches versus weather parameters in muskmelon (*Cucumis melo* L.): A study. *Journal of Entomology and Zoology Studies*, 8(3): 2004-2007.

Mamatha K, Rao MBN, Bhagavan BVK, Umajyothi K and Anuradha M (2020). Studies on correlation and path coefficient analysis in turmeric (*Curcuma longa* L.). *Journal of Pharmacognosy and Phytochemistry* 2020; 9(5): 2149-2157.

P. Vimatha, K. Mamatha, K. Umajyothi, K. Sasikala and V. S. N. Deepika (2020). Effect of Organic Manures and Biostimulants on Quality of Orange Fleshed Sweet Potato (*Ipomoea batatas* L.) under Godavari Alluviums of Andhra Pradesh. *Int.J.Curr.Microbiol.App.Sci*(2020) 9(9): 391-395.

P. Vimatha, K. Mamatha, K. Umajyothi, K. Sasikala and V. S. N. Deepika (2020). Effect of Organic Manures and Biostimulants on Quality of Orange Fleshed Sweet Potato (*Ipomoea batatas* L.) under Godavari Alluviums of Andhra Pradesh. *Int.J.Curr.Microbiol.App.Sci*(2020) 9(9): 391-395.

K. Mamatha, M. B. N. Rao, BVK. Bhagavan, K. Umajyothi, M. Anuradha and K. Sivaraju. (2020). Studies on Genetic Variability and Heritability. in Turmeric (*Curcuma longa* L.). *Int.J.Curr.Microbiol.App.Sci* (2020) 9(9): 329-335

Phone-in-Live Programme

Dr M.Ravindra Babu, Senior Scientist (Horticulture), HRS, V.R.Gudem attended Phone-in-Live Programme on "Polyhouse cultivation of vegetables and flowers" at Doordarshan Kendra, Vijayawada on 01 October 2020.

Dr B.V.K.Bhagavan, Principal Scientist (Horticulture) and Head, HRS, Ambajipeta attended Phone-in-Live Programme on "Approaches for getting higher yields in coconut" at Doordarshan Kendra, Vijayawada on 15 October 2020.

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

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

Date	Activities
01.10.2020	Improved management practices in cabbage & cauliflower Dr V.Ramana, Principal, SSPG Horticultural Polytechnic, Madakasira
03.10.2020	Necessity of Post harvest machinery in horticultural crops Sri P.C.Vengaiyah, Scientist, HRS, Pandirimamidi
05.10.2020	Coconut varieties—Good management practices Dr B.V.KBhagavan, Principal Scientist & Head, HRS, Ambajipeta
06.10.2020	Cashew management Dr K. Umamaheswararao, Scientist, CRS, Bapatla
07.10.2020	Disease Management in Chilli Smt T.Vijaya Lakshmi, Senior Scientist, HRS, Lam
08.10.2020	Improved Cultivation Practices in Tomato
09.10.2020	Raising of kitchen gardens Dr E.Karuna Sree, Principal Scientist & Head, KVK, V.R.Gudem
12.10.2020	Pest management in coconut through biocontrol agents Dr N.B.V.Chalpathi Rao, Principal Scientist, HRS, Ambajipeta
13.10.2020	Sweet Potato varieties-Scientific management practices Dr M.Janaki, Scientist & Head, HRS, Peddapuram
14.10.2020	Tips for tissue culture banana cultivation Dr K.Ravindra Kumar, Scientist, HRS, Kovvur
15.10.2020	Improved management practices in Jasmine Dr P.Lalita Kameswari, Senior Scientist & Head, KVK, Pandirimamidi

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