Alienation of land to Banana Research Station, Venkatampalli

Government of Andhra Pradesh have accorded permission for alienation of land to an extent of AC.70.03 cents at Venkatampalli village of Pulivendula mandal, YSR Kadapa district to Dr.Y.S.R.Horticultural University for establishment of Banana Research Station. Accordingly, Dr.K.Gopal, Registrar has taken over the said land from the District Collector & Magistrate, YSR Kadapa district on 23.12.2019.

Swachhata Pakwada Programme

Swachhata Pakwada Programme was conducted by all the KVKs of Dr.YSRHU from 16.12.2019 to 31.12.2019 to curb the single use plastic items in adopted villages, schools, Parks to create awareness among the farmers, students and public. Scientists emphasized on the importance of cleanliness of the surroundings and generation of wealth from waste, plastic free, composting of kitchen and home waste materials, promoting clean & green technologies and also administered a pledge with farmers and students at local level.
Exposure Visits
An exposure visit to Kadiyapulanka nurseries as a part of course no.FCLS-231 for Second B.Sc(Hons) Horticulture students. The students got exposed to the available plant material and different varieties in commercial flowers. Dr.A.V.D Dorajee Rao, Professor (Hort.), CoH, V.R.Gudem coordinated the program.

Dr.Mamatha, Dr. Yohan and Dr. Hari Vara Prasad (Teaching Associate), CoH, Anantharajupeta accompanied the 2nd year students of B.Sc (Hons.) Horticulture in study tour as a part of their curriculum to commercial vegetable nursery, ARS Perumallapalli and RARS Tirupati on 21.12.2019.

Dr. M. Raja Naik, Assoicate Professor (Hort.) and Dr. N. Vinod Kumar, TA, CoH, Anantharajupeta have accompanied the students of 2nd year B.Sc (Hons.) Horticulture to Balireddypalli, Obulavaripalli mandal on 31.12.2019 towards an exposure visit to flower crops and interacted with farmers, regarding advanced production, protection technologies including marketing of flowers.

Guest Lecture
Dr.D.R.Salomi Suneetha, CoH, Venkataramannagudem delivered an invited talk on “Current trends in bio fuel production as an alternate energy security” in the two day national seminar on “Present Research in green sustainable technologies held during 18th-19th December 2019 organized by P.R Govt College, Kakinada.

Research
Scientists of HRS, Anantharajupeta observed severe (20-35%) incidence of Eumusae leaf spot (Mycosphaerella eumusae) Banana cv Grand Naine, Rasthali and Bontha and low incidence (10%) was recorded on Amruthapani at Anantharajupeta and Y Kota of Kodur Division due to continuous rains during the season.

At HRS, Anantharajupeta, severe damage of leaf eating caterpillar and fruit borer was observed due to continuous rains. None of the chemical pesticides were found effective due to surface runoff. Spraying of Beauveria bassiana liquid formulation @ 5ml/l effectively controlled all the instars of Helicoverpa and Spodoptera and the damage was completely arrested.
Scientists of HRS, Anantharajupeta, observed fruit sucking moth damage in and around Rly. Kodurmandal in tomato. Severe damage was reported by the farmers of Yeddulavari, Chinnarajupodu of Rly. Kodur mandal.

Training Programmes

Dr. M. Raja Naik, Assoicate Professor (Hort.), CoH, Anantharajupeta attended a training program as resource person on “Water, nutrient management and advanced plant protection aspects in mango during, after flowering and fruit setting” at Papannagaripalli, Kondalathurphu villages, T. Sundupalli Mandal, YSR Kadapa dist. on 29.12.2019 organized by M/s. Coromandel International Ltd and My Gromor, Rajampeta.

Dr. R. Rajyalakshmi, Sr.Scientist (Hort) & Head, Dr. B. K. M. Lakshmi, Sr. Scientist (Path.) and Dr. G. Sravanthi, Scientist (Ento.) organised training programme to mango farmers of Prakasam district at Mango Research Station, Nuzvid on 24.12.2019.

On 28.12.2019 KVK, Venkataramannagudem conducted training program on “Improved backyard poultry rearing” to the tribal farmers of Buttaigudem Mandal. Dr. B. Srinivasulu, Director of Extension has attended as a chief guest and addressed the gathering about the importance of backyard poultry rearing as a source of subsidiary income and distributed forty one units having 20 no. each of Rajasri variety chicks to tribal families. Dr. T. Vijaya Nirmala, Scientist (Veterinary Science) and Dr. E. Karuna Sree, Principal Scientist & Head has coordinated the training program.

KVK, Venkataramannagudem conducted 3 days skill oriented training program from 26.12.2019 to 28.12.2019 on “Value addition of minor millets and processing of mixed fruit jam, tomato Ketchup and tomato products” to NABARD working group women from Vijayawada. In this program they learnt about preparation of mixed fruit jam, tomato ketchup and different value added products from minor millets. More than 20 farmers have participated.

On 23.12.2019, Dr. K. Venkata Subbaiah, Scientist (Hort.), KVK, Venkataramannagudem attended as a guest to Kisan day celebrations which was organised by Nova Group of Institutions, Andhra Pradesh and Telangana State and stressed on ‘Importance of Society or FPO formation for getting remunerative prices for farmers produce’.
On 18.12.2019, Mandal level SERP meeting was conducted by KVK, Periyavaram at Gudipalli on “Production and protection technology in vegetables”. Acknowledged the farmers about the package of practices and production technologies in vegetables and acknowledged the farmers with new varieties of chilli, tomato, french beans and potato which are suitable for Gudipalli mandal. Dr. P.Syam Sundar Reddy, Associate Professor, CoH, Anantharajupeta attended as resource person and explained about the importance of off season flower crops. He emphasized that micronutrient formulations should be used for better production in flower crops and vegetables. Dr.B.Govinda Rajulu, Principal Scientist & Head coordinated the program.

On 19.12.2019, Mandal level SERP meeting was conducted by KVK, Periyavaram at Kupaam, Chittoor dist. Emphasized on adoption innovative technologies viz., drip irrigation system, importance of application of Vermi compost and by-products of neem in vegetable crops. Stressed the need for introduction of fruit crops like guava and acid lime in Kuppam area. Dr. P.Syam Sundar Reddy, Associate Professor, CoH, Anantharajupeta attended as resource person and acknowledged regarding high yielding practices in tomato, potato, beans, carrot, beet root and chilli and temperature tolerant Kufri Lalima Potato Variety and IPM in vegetables. Dr.B.Govinda Rajulu, Principal Scientist & Head coordinated the program.

On 16.12.2019, KVK, Pandirimamidi conducted mandal level training program on cashew production technology to FPO farmers of Rampachodavaram mandal. Sri Hemanth, DPM, SERP attended as chief guest for the program. Sessions on cashew production, protection and processing were conducted to FPO members during the program. Dr. P.C. Vengaiah, Scientist (FST), HRS Pandirimamidi explained about processing and value addition in cashew and emphasized the role of FPO in establishing market linkages. SERP representatives and 49 farmers have participated in the program. Dr. S. Adarsha Scientist (Ento.), Sri P.Raja sekhar, Scientist (SS&AC) and Sri N. Chiranjeevi Research Associate coordinated the programme.

On 17.12.2019, KVK, Pandirimamidi conducted mandal level training program on cashew production technology to FPO farmers of Addateegala mandal. Sri B.Sireesha Devi, APM, SERP and 6 SERP representatives attended the program. Sessions on cashew production, protection and processing were conducted to FPO members. 50 farmers have participated in the program. Dr. S. Adarsha, Scientist (Ento.) and Sri N. Chiranjeevi Research Associate coordinated the programme.
From 18.12.2019 to 20.12.2019, KVK, Pandirimagamidi conducted three mandal level training programs on ‘Cashew production technology’ to FPO farmers of Gangavaram, Y.Ramavaram and Rajavomangi mandals. Sri P. Madhu Babu, APM- Y.Ramavaram, SERP, Sri Satyanarayana FPO CC- Ganagavaram, Sri Aparna, APM- Rajavomangi and 26 SERP representatives attended the program. Sessions on cashew production, protection and processing were conducted to FPO members during the program. 160 farmers have participated in the programs. Dr. S. Adarsha, Scientist (Ento.) and Sri N. Chiranjeevi, Research Associate coordinated the programme.

On 16.12.2019 and 26.12.19, Sri K.C.Bhanumurthy, Scientist (Hort.), KVK, Pandirimagamidi attended as a resource person to a training program to VHA and VAA on ‘Cultivation of vegetable crops’ at Rajahmundry organized by Dept. of Agriculture, Rajahmundry. About 123 VHA, VAA have participated.

CFLD

As a part of Cluster Front Line Demonstration – Oil seeds, ground nut seed of Dharani Variety was distributed to farmers on 21.12.2019. As part of this programme, Ms. Y. Swarupa, RA explained the package of practices of groundnut cultivation for Rabi season to the farmers.

On 17.12.2019, P Raja Sekhar, Scientist (SS&AC), KVK, Pandirimagamidi visited Paidiputta village of Y.Ramavaram mandal along with Sri Chakradharababu, Laya-NGO, Addateegala to interact with farmers for implementation of Cluster Front Line Demonstrations on Sesame var. YLM-66 under NFSM-2019-20. As part of this programme, a technical session on cultivation of Sesame Var. YLM-66 was conducted and provided critical inputs like sesame seed and pendimethalin to 25 farmers of Paidiputta, Pasariginne and Komaravaram villages of Y.Ramavaram mandal.

On 21.12.2019, Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted follow up visit for FLD on enhancing banana bunch yield through application of N, K and S. The scientist explained the nutrient management and fertilizer requirement at the time of bunch emergence in banana.

On 27.12.2019, KVK, Vonipenta provided seedlings of IIHR chilli varieties viz., Arka khyati, Arka Swetha and Arka Meghana under IIHR SC sub plan being implemented in KVK, Vonipenta operational area.

On 17.12.2019, KVK, Venkataramannagudem supplied critical inputs to the acid lime farmers under technical program “Crop regulation in Acid lime”. Under this program Arka Citrus special was supplied for spraying during flowering, pea nut stage and fruit development stage for improving fruit size in summer crop.
Diagnostic Visits

Dr. L. Mukunda Lakshmi, Senior Scientist (Hort.) and Dr. T. Rajasekharam, Scientist (Pl. Path.) CRS, Tirupati along with department officials visited the acid lime and sweet orange gardens at Chiyyedu Village of Ananthapur rural mandal, Anantapur district on 24.12.2019 under SCSP programme of AICRP on Fruits.

On 19.12.2019, Dr. K. Venkata Subbaiah, Scientist (Hort.), KVK, Venkataramannagudem visited tribal villages for monitoring ongoing technical program in Vankavarigudem, East Rekulakunta, Pedda Kapavaram etc. Suggested the farmers to follow clean cultivation like removal of pest and disease infected parts, removal of weeds etc.

On 23.12.2019, Dr. S. Adarsha Scientist (Ento.), KVK, Pandirimamidi observed thrips infestation in vegetative stage of watermelon crop at Peddageddada village of Rampachodavaram mandal and recommended spraying of fipronil @ 2ml/l for control of pest.

On 23.12.2019, P. Raja Sekhar, Scientist (SS&AC) and N. Chiranjeevi, Research Associate (Pl. Path.), KVK, Pandirimamidi has visited chilli and blackgram fields at Ramavaram village of V.R. Puram mandal and observed root rot in chilli and YMV in blackgram. For management of root rot in chilli recommended carbendazim @ 1 g/l + mancozeb @ 3-4 g/l or carbendazim @ 1g/l + COC @ 3 g/l spray at the base of the plant and to manage YMV in blackgram, dimithoate @ 2 ml/l or triazophos @ 1.5 ml/l spray was recommended for vector control.

On 28.12.19, Sri Bhanumurthy K.C, Scientist (Hort.), KVK, Pandirimamidi visited cashew orchard at Jagarampalli village of Rampachodavaram mandal. The orchards are at new flush initiation stage, observed micronutrient deficiency, Tea mosquito bug infestation and suggested the farmers to go for foliar application of Formula - 4 or Micro nutrient mixture @ 5g/l for micro nutrient deficiency and to spray monocrotophos @ 1.6 ml/l & carbendazim @ 1g/l to manage the pest.

On 16.12.2019, Sri G. Sandeep Naik, Scientist (Pl. Path.) & Head, KVK, Vonipenta, along with Sri Krishna Murthy, ADA, Mydukur and Smt Laxmi Prasanna, MAO, Mydukur have visited paddy field var. MTU 1262 to observe the performance of variety at Mamillapalli village of Mydukur mandal. Observed false smut disease and suggested the spraying of propiconazole @ 1 ml/l for controlling the disease and also suggested to remove and destroy the disease infested panicles.
On 17.12.2019, Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta has visited papaya and tomato fields for diagnosis of pest, disease incidence and nutrient deficiency at Musalinayana palli and T. Kothapalli village of Mydukur mandal. Observed papaya ring spot virus disease and mosaic disease and suggested to spray neem oil @ 2.5 ml/l and acephate @ 2.5 g/l along gum for controlling the insect vector. In Tomato indentified the zinc deficiency and suggested to spray zinc sulphate @ 2 g/l.

On 20.12.2019, Sri G. Sandeep Naik, Scientist (Pl. Path.) & Head, KVK, Vonipenta visited banana and guava fields for diagnosis of pests and disease incidence at Itukulapadu village of B.Mattam mandal. Explained about bunch management practices to be followed viz., covering with boot leaf, bunch covering and spraying of sulphate of potash at 5th and 15th day after denavelling in banana. Observed nematode infestation in guava and suggested to apply of carbofuran 3G @ 30 gm per plant or Purpureocillium lilacinum @ 25g + neem cake @ 200 g per plant to control nematode infestation.

On 25.12.2019, Sri G. Sandeep Naik, Scientist (Pl. Path.) & Head and Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited blackgram (var. TBG-104) fields for diagnosis of pests and diseases at Madirepalli village of Diuvvuru mandal. Observed bud necrosis and suggested to spray imidacloprid @ 0.03% or fipronil @ 0.2% to control viral disease transmitting vector.

On 28.12.2019, Sri G. Sandeep Naik, Scientist (Pl. Path.) & Head and Dr V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited guava fields for diagnosis of pests and disease at Vedurur village of Chapadu mandal. Observed nematode infestation in guava. Conducted method demonstration on preparation of spray solution of Purpureocillium lilacinum @ 25g + neem cake @ 200g/plant to control nematode infestation.

National Farmer’s Day

On 23.12.2019, National Farmer’s Day was celebrated at KVK, Periyavaram to mark the birth anniversary of Sri Chaudhary Charan Singh who served as the 5th Prime Minister of India. Dr.B.Govinda Rajulu, Principal Scientist & Head addressed the gathering and told that it is the duty of everyone to endorse the great work of farmers as farmers are the backbone in this agriculturally dependent nation. On this occasion, Smt. B. Jhansi resident of Valliveedu village, Venkatagiri Mandal was felicitated for her active participation as SHG member and for innovative practices in agriculture. Dr. P. Manjari, Scientist (Veterinary science), Ms. Y. Swarupa, Research Associate (Plant protection), RHWEf students and KVK staff have participated in the program.
**Kisan and Vigyan Diwas**
On 25.12.2019, KVK, Vonipenta conducted Kisan and Vigyan Diwas at Madirepalli village of Duvvur mandal. The scientists discussed on cultivation practices of major crops and suggested the farmers follow the IPM and INM practices for reducing the cost of cultivation in sustainable farming.

**Meetings**
Dr. Poonam Malakondaiah, IAS, Special Chief Secretary to Government of A.P convened a meeting at AP-CRAL, Pulivindula on 23.12.2019 with Horticulture, Agriculture and Veterinary University officials and discussed about the land availability at AP-CARL, Pulivendula and infrastructure facilities to start new colleges during the year 2020-21. Dr. K. Gopal, Registrar, Dr. RVSK Reddy, Director of Research and Dr. R. Nagaraju, Principal Scientist & Head, HRS, Anantharajupeta attended the meeting and submitted the feasibility report.

Dr.A.Devivaraprasad Reddy, Scientist, KVK, Venkataramannagudem has presented a paper entitled “Impact of the activities of Krishi Vigyan Kendra's (KVks) in Doubling the Tribal Farmers Income through Tribal Sub Plan Activities in East & West Godavari Districts of Andhra Pradesh” at International Conference on Extension for strengthening agricultural research and development (eSARD)2019 at JSS, Mysuru, Karnataka from 14.12.2019 to 16.12.2019 organised jointly by ICAR-ATARI, Bengaluru, Karnataka, Extension Education Society, Coimbatore, Tamil Nadu and ICAR JSS Krishi Vigyan Kendra, Mysuru, Karnataka.

**Visits**
Sixty two 2nd year B.Sc (Agriculture) students from Kadiri Babu Rao College of Agriculture visited HRS, Kovvur on 28.12.2019. Dr. R. Naga Lakshmi, Senior Scientist (Hort.), Dr. K. Ravindra Kumar, Scientist (Hort.) and Dr A Snehalatha Rani, Scientist (Pl. Path.) explained the research activities going on at the station.

**Phone-in-Live Programmes**
Dr. B.V.K.Bhagavan, Principal Scientist(Hort.) & Head, HRS, Ambajipeta attended Phone-in-Live programme on ‘Kobbari mariyu kobbarilo antarapantala yajamanyam’ at Doordarshan Kendra, Vijayawada on 16.12.2019.


**Publications**

Dr. S. Narasimha Rao, Assistant Professor (Pl. Path.), CoH, Venkataramannagudem. In vitro evaluation of fungicides, botanicals and bio agents against the field bean anthracnose incited by *Colletotrichum lindemuthianum*. Phyto Pathological Society, Central Zone conference held at Andhra University, Visakhapatnam from 17th-18th December, 2019.

**Awards**

Dr. K. Mamatha, Senior Scientist (Hort.), HRS, Kovvur received Best Oral Presentation Award for the presentation of research paper on ‘Variability in open pollinated seedling progenies in Elephant foot yam” at National conference on “Horticulture for sustainability and Nutritional Security” organized by UHS, Bagalkot from 19th to 20th December, 2019 at KRC, College of Horticulture, Arabhavi, Karnataka.


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