



## Fortnight Focus

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## From Vice-Chancellor's Desk

### HRD in Dr.YSRHU

Dr.YSR Horticultural University (Dr.YSRHU) under new initiative focusing on Human Resource Development (HRD) programmes to senior officials, teaching , non-teaching staff and students of Dr.YSRHU.

Dr.YSRHU in collaboration with IT Department, GAD, Secretariat, Government of Andhra Pradesh have conducted training programme on e-office to all university officers, teaching and non-teaching staff (including outsourcing JACTs of Dr.YSRHU).Organized online training programme on AP Govt. Services rules & CCA rules, Accounts rules & Noting & Drafting, Leave rules and TA rules in co-ordination with APHRDI, Bapatla to the non-teaching staff of Dr.YSRHU.

Organized virtual training programme for Drivers and Cleaners of Dr.YSRHU in co-ordination with Motor Vehicle Inspector, Unit Office, Tadepalligudem about safety measures, character and conduct of drivers, keen sense of attitude and time management, alertness, cleaning of vehicles and smooth driving etc.

In co-ordination with ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad conducted online training on “Executive Development Programme (EDP) on Leadership Development” for senior officials (32 members); “Management Development Programme (MDP) on Leadership Development” for faculty (40 members); “Administrative & Finance Management Training” for Non-teaching staff (20 members) and “Entrepreneurship Development” for students (60 members) of Dr.YSRHU.

**Dr T.Janakiram**  
**Vice-Chancellor**



## The Events

### Constitution day

National Constitution Day was celebrated at Dr.YSRHU Administrative Office and all the institutes of Dr.YSRHU on 26 November 2021. All the staff and students have taken pledge on this occasion.



### Dr.YSRHU : Udhyana Thali

Dr. T. Janakiram, Hon'ble Vice-chancellor Dr. YSRHU in the presence of Dr. B. Srinivasulu Director of Extension, Dr.E.Karuna Sree, Principal Scientist & Head, Scientists of KVK, tribal women trainees inaugurated the "Udhyana Thali" on 16 November 2021, a novel activity taken up by KVK, Venkataramannagudem by way of providing nutritious millet based lunch packs to the KVK trainees and required consumers on prior order basis.



### MoU



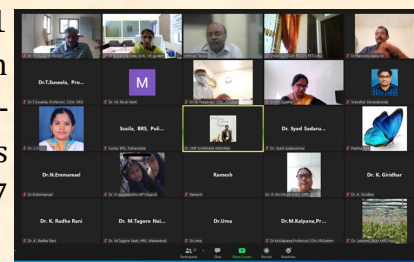
Dr. YSR Horticultural University, V.R.Gudem has entered into a Memoranda of Understanding (MoU) between Adikavi Nannaya University, Rajamahendravaram, Jawaharlal Nehru Technological University, Kakinada and National Institute of Technology, A.P., Tadepalligudem on 27 November 2021 at NIT campus, Tadepalligudem. Dr.T.Janakiram, Hon'ble Vice-Chancellor, Dr.YSRHU along with University Officers have participated in this programme.



## HRD in Dr.YSRHU



ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad conducted 5 days online training on “Executive Development Programme (EDP) on Leadership Development” for senior officials (32 members) of Dr.YSRHU from 30 November 2021 to 4 December 2021 for faculty (40 members) on “Management Development Programme (MDP) on Leadership Development” from 29 November to 3 December 2021 and for students (60 members) on “Entrepreneurship Development” from 22 to 27 November 2021.



## Education

### Placements

Three students namely Pravajit .P, Vijayswaroop .S and Ashok .U of 2016 admitted batch of College of Horticulture, Anantharajupeta were recruited as Assistant Managers in IDBI and were posted at Pune.

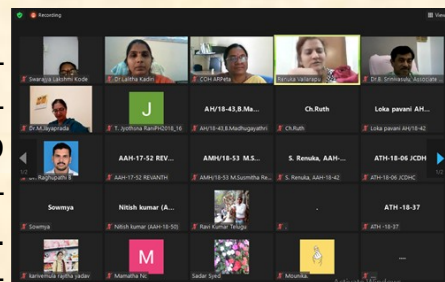


### JRF Ranks

College of Horticulture, Anantharajupeta, 16 students and College of Venkataramanagudem 15 students got ICAR- Junior Research Fellowship for the year 2021-22 and were allotted in various ICAR institutes.

### NSS Activities

An online motivational speech by Dr. Renuka Vallarapu, Agri. Education Analyst, Pensilvenia, USA was conducted on “Seed Your Future: Guiding students to explore higher education- MS or PhD (Horticulture) opportunities abroad with full scholarship” at College of Horticulture, Anantharajupeta on 23-11-2021 by NSS Cell. Dr. B. Srinivasulu, Associate Dean, Dr. V.V. Padmaja, Associate Professor, Dr. Lalitha Kadiri, Associate Professor (Agro) & Dr. M. Jayaprada, Associate Professor (GPBR) organized the programme for the benefit of students.



**BC Cell:** A meeting was organized by the Associate Dean, College of Horticulture, Anantharajupeta with BC Cell incharge, teaching, non-teaching staff and students at College of Horticulture, Anantharajupeta on 22-11-2021 and discussed the activities to be taken up for the welfare of the students and staff.

As a part of educational tour, students of final year B.Sc. (Hons.) Horticulture, Centurion University, Paralakhemundi visited the laboratories and instructional farms at College of Horticulture, VR gudem on 22.11.21. Dr. G. Kranthi Rekha, Assistant Professor (Horticulture) and P. Gangadhar, Teaching Associate (Horticulture) showed the laboratories and instructional farms.





## Vanamahotsavam

NSS officers Dr. D. R. Salomi Sunitha, Professor, Dr RV Sujatha, Associate Professor, Dr A. Harsha Vardhan, Assistant Professor organised the “Vanamahostavam” on 29 November 2021 under the chairmanship of Dr. K. Uma Jyothi, Associate Dean. Dr. T. Janakiram, Vice Chancellor, Dr. A.S. Padmavathamma, Dean of Horticulture, Dr. A. Sujatha, Dean of Student Affairs and Dean of PG studies, Dr. R.V.S.K. Reddy, Director of Research, Dr. B. Srinivasulu, Director of Extension, Dr. K. Gopal, Registrar, Dr Dhanunjaya Rao, DIIP, Dr. D. Venkataswami, University Librarian, teaching staff and students planted simarouba plants along the borders of university.



## Rythu Sadassus

Final year B.Sc. (Hons.) Horticulture students conducted Rythu sadassu and Exhibition at Katravulapalli Village, Jagampeta (Mandal) East Godavari district on 25 November 2021 as a part of RHWEP. Dr. K. Uma Jyothi, Associate Dean, COH, VRG, Dr P. Lalitha Kameswari, Principal Scientist & Head, KVK, Pandirimamidi, Dr. P. Vinaya Kumar Reddy, Assistant Professor (Horticulture) & Associate Dean Representative RHWEP, COH, VRG, Dr. Bhanumurthy, Scientist (Hort.), KVK, Dr. Adarsha, Scientist (Entomology), KVK and Mr. Rajasekhar, Scientist (Soil Science), KVK and Coordinator, RHWEP and farmers participated in the programme.



On 29 November 2021 as a part of RHWEP, final year B.Sc. (Hons.) Horticulture students conducted Rythu sadassu and Exhibition at Venkataramannagudem village, West Godavari district. Dr. A.S. Padmavathamma, Dean of Horticulture, Dr YSRHU, VRG, Dr. K. Uma Jyothi, Associate Dean, COH, VRG, Dr. E. Karunasri, Principal Scientist & Head, KVK, VR Gudem, Dr. K. Usha Kumari, Assistant Professor (Horticulture) & Associate Dean Representative RHWEP, COH, VRG, Dr. Venkatasubbaiah, Scientist (Hort.), KVK and Coordinator, RHWEP and Smt. Anusha, Grama sarpanch and progressive farmers participated in the programme.

## RHWEP Activities

As a part of RHWEP program, KVK, Venkataramannagudem conducted three vocational trainings on 1. Production of Vermicompost, Azolla, 2. Mushroom production 3. Propagation techniques and nursery management in Horticultural crops. In this program Dr. T. Vijaya Nirmala, Scientist (Veterinary Science), Dr. K. Venkata Subbaiah, Scientist (Horticulture) participated as resource persons respectively. This program was coordinated by Dr. K. VenkataSubbaiah, Scientist in Horticulture. In this program 42 RHWEP students have participated.





## Research

Banana germplasm was collected from the agency area of Visakhapatnam on 15-16<sup>th</sup> November, 2021. During the exploration, nearly 13 different accessions viz., PasaraBontha, Naatubontha, Boodidaarati, Seemaarati, Amrutalu, Gajulagutti, Kommaarati, Seemataruarati etc. were collected and planted at HRS, Kovvur for further evaluation. Very high incidence of banana skipper butterfly and scarring beetle was observed in banana grooves maintained in the tribal farmer fields and field bunds.



Two variety release proposals i.e. PDP-9 in Cassava and PSP-1 in Sweet Potato have been submitted to Director of Research, Dr. YSRGU, V.R. Gudem from HRS, Peddapuram



43 Op seedlings of cassava are showed resistance to CMD out of 107 op seedlings collected by Dr. M. Janaki, Scientist (Hort.) & Head, HRS, Peddapuram.

Under CDB Project on establishment of “Bio control laboratory at Dr. YSRHU, Andhra Pradesh for mass Production of bio agents” at HRS, V.R.Gudem, multiplication of predator *Dichochrysa astur* has been taken up and predator eggs were supplied to the farmers of Telikicharlla and Nallajerla vil-lages for the management of rugose spiralling whitefly in coconut and oil palm orchards.

## Webinars

Dr.YSRHU-Farmers Advisory Cell conducted online state-level webinar on “అధిక వర్షాల వలన ఉద్యాన పంటలలో చేపట్టవలసిన నష్ట నివారణ చర్యలు” on 24.11.2021 under the Chairmanship of Dr.T.Janakiram, Vice-Chancellor.

Dr.YSRHU-Farmers Advisory Cell and HRS, Lam conducted online state-level webinar on “మిరప పంటపై చర్చా కార్యక్రమం” on 30.11.2021 under the Chairmanship of Dr T.Janakiram, Vice-Chancellor.

## Extension Activities

### Campaign on Agriculture and Environment : The Citizen Face under Azadi Ka Amit Mahostav

On 26 November 2021, National campaign on the theme “Agriculture and Environment: The citizen face” was organized at all the KVKs under Dr.YSRHU. Conducted an exposure visit to KVKs, debate to students on the theme Agriculture and Quiz competitions. Prizes were distributed to the winners in the competition.





## Vice-Chancellor to Village Activities

Dr.Ch.Ruth, Prof.(Pl.Path.) and Dr. K. Swarajya Lakshmi, Prof. (Horti.), CoH, Anantharajupeta have conducted awareness programme on 'Mushroom cultivation' in Venkatareddypalli, Kadapa dt. and established mushroom unit by a progressive farmer Sri. K.Subramanyam Raju. Pink and white oyster and button mushrooms are being grown in the unit. Dr. B. Sreenivasulu, Associate Dean visited the mushroom unit on 22 November 2021 and interacted with rural women. Village Sarpanch, RBK staff, MPP and school children participated in the programme.



Dr. K. Swarajya Lakshmi, Dr.K.Lalitha, Dr. V. V. Padmaja, Dr.Deepthikiran from College of Horticulture, Anantharajupeta along with PG students conducted awareness programme on Agriculture and Horticulture Education. Importance of fruits and vegetables in human health; Physical and mental fitness through physical exercise and meditation, Healthy habits, self discipline and good lifestyle; Careful usage of mobile phones to the students of Mandal Praja Parishath High school, Venkatareddypalli, the adopted village on 16 November 2021.

Dr. E. Padma, Associate Professor (Hort.) and Dr. K. Usha Kumari, Assistant Professor (Hort.), CoH, Venkataramannagudem conducted awareness programme on "Home nutrition garden" at Z.P. High School, Pullalapadu (adopted village) on 22 November 2021. Students actively participated in sowing of nutrigarden.

Dr. M. Janaki, Scientist (Hort.) & Head, HRS, Peddapuram; Dr. G. Byju, Dr. Ch. Pradeepika, and Dr. A.V.V.Koundinya from ICAR-CTCRI, Thiruvananthapuram, Kerala; Smt. N. Sujatha, Horticulture Officer have visited the tapioca fields of Kattamuru covered under demonstrations on 23 November 2021 which is an adopted village under VC-Village programme of HRS, Peddapuram and also visited Jai Balaji Sago factory, Vetalapalem



Coconut farmers meeting was conducted at Ramannagudem village and distributed liquid formulation of *Isaria fumorosa* for on farm demonstration purpose on 20 November 2021 for the control of rugose spiralling whitefly.

On 26 November 2021, Dr. N.B.V. Chalapathi Rao, Principal Scientist (Ent.) Sri. A. Kireeti, RA (Hort.), and Dr. D. Devika Rani (Ent.) visited adopted village Mamidikuduru and organized group discussion on insect pest management in coconut especially on integrated pest management of Rugose spiralling whitefly and Rhinoceros beetle management.





On 20 November 2021, Smt B. Neeraja, Scientist (Pl.Path) and Dr. G. Koteswara Rao, RA (Hort.) visited adopted village Mamidikuduru as part of VC to Village programme and conducted meeting on introduction of released varieties and technologies of Horticultural Research Station, Ambajipeta to the adopted village Mamidikuduru along with Mamidikuduru FPO farmers, coconut farmers and explained in detail about various measures against cyclone flooded fields of coconut, cocoa and arecanut. Further information was given on IPM of pests and diseases.



On 23 November 2021 KVK, Periyavaram conducted awareness programme on Soil test based fertilizer application at adopted village Siddavaram (VC to Village program). In this programme Dr.M.A. Aariff Khan senior professor (Soil Science), PJTSAU enlightened the farmers on the importance of soil test based fertilizer application and use of soil health card. Ms.K.Sravani, RA (Agri Extension) explained the farmers regarding usage of Rhizobium culture for seed treatment. Dr.B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram distributed Rhizobium culture to the beneficiaries.

### Method Demonstrations

Dr.Ch.Ruth, Prof.(Pl.Path.) and Dr. K. Swarajya Lakshmi, Prof. (Horti.), CoH, Anantharajupeta conducted Method demonstration on preparation of *Trichoderma harzianum* culture on 29 November 2021 at NVS colony of Venkatareddypalli village of YSR. Kadapa district against soilborne diseases.



On 26 November 2021 Dr. K Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavaram conducted method demonstration to RHWEP students on "Preparation of waste decomposer solution from starter culture" and enlightened multi-potent efficiency and uses of waste decomposer in Horti-Agricultural crops to get good quality and high crop

yield.

### ICAR- SC Sub Plan

On 17 November 2021, Dr. S. Lavanya, Research Associate, (Livestock production), Dr. SrividyaRani. N, Scientist & Head and KVK Staff from Krishi Vigyan Kendra, Vonipenta provided Rajasri birds to farmers of Somireddipalli village of B.Mattam mandal under ICAR- SC Subplan.



On 23 November 2021, Dr. V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta conducted followup visit in Pomegrante fields at T.Kothapalli village of Mydukur mandal under ICAR - SC Subplan. During the visit scientist explained fertilizer management at initial stage of plants.



## Dr.YSRHU Year of Citrus 2021-22

On the eve of year of Citrus, YSRHU- 2021, elocution and essay writing competition was conducted to the UG and PG students at College of Horticulture, Anantharajupeta.



## Training programmes



Dr. M. Janaki, Scientist (Hort.) & Head, HRS, Peddapuram has coordinated the training programme on “Improved technologies of tuber crops for enhancing farm income” organized by ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala under SCSP at Horticultural Research Station, Peddapuram on 24.11.2021. Dr. T. Janakiram, Honorable Vice-Chancellor, Dr. YSRHU has attended as a Chief Guest and distributed the planting material and sprayers to tapioca farmers. Dr. R.V.S.K Reddy, Director of Research, Dr. K. Mamatha from Dr. YSRHU, Andhra Pradesh; Dr. G. Byju, Dr. Ch. Pradeepika, and Dr. A.V.V.Koundinya from ICAR- CTCRI, Thiruvananthapuram, Kerala; Dr. S. Rammohan Rao, PD, AP-MIP, East Godavari, Smt. N. Sujatha, Horticulture Officer, Peddapuram; VHA’s and farmers have participated in the training programme.

Dr.G.Sravanthi, Scientist (Entomology), Mango Research Station, Nuzvid attended meeting on “Measures to be taken to initiate flowering in mango along with Integrated Pest and disease management in mango” along with ADH, Nuzvid and other department officials organised by Department of Horticulture at Kondaparva on 30.11.2021.



Dr.R.Rajyalakshmi, P. Scientist (Horticulture), Mango Research Station, Nuzvid visited mango gardens and suggested farmers on “Measures to be taken to initiate flowering in mango along with Integrated Pest and disease management in mango” at Mittagudem on 27 November 2021.



On 16 November 2021 Sri. G. ShaliRaju, Scientist (Ento.), KVK, V.R.Gudem attended as a resource person for the Mandal level Agricultural Advisory Board meeting at Kaikaram village, Ungutur mandal and explained about KVK activities, importance of bio fertilisers, biopesticides and measures to be taken in paddy fields during heavy rains.

On 30 November 2021, Dr.E.KarunaSree, Principal Scientist & Head participated as resource person in training programme to the members of the Biodiversity Management Committees (BMCs) and Home Herbal Garden Beneficiaries (HHGBs) on the concept of Biological Diversity Act 2002 & A.P. Biological Diversity Rules 2009 with focus on its “Conservation and Sustainable utilization of medicinal plants resources in Andhra Pradesh and delivered a lecture on “Agricultural Biodiversity, Land Races Organic Farming and Integrated Farming Systems”.





KVK, Venkataramannagudem conducted three days skill training on “Advanced Dry Flower Technologies” from 25<sup>th</sup> to 27<sup>th</sup> November, 2021 as a part of the technical programme for the year 2021-22. Different resin art products using dry flowers and plant parts i.e. key chains, book marks, wall clocks, paper weights, trays, coasters, pendants, wall hangings etc. were learned by the women participants. Dr. E. KarunaSree, Principal Scientist and Head co-ordinated the programme. Dr. B. Srinivasulu Director of Extension Dr. YSR Horticultural University participated as chief guest for the valedictory session on 27.11.2021 and interacted with the participants and gave suggestions for products preparation for commercial use. Certificates were distributed by the chief guest to the participants.



On 16 November 2021 conducted one day training programme to tribal women on “Importance of Integrated Farming Systems for enhanced livelihood of tribal families” at KVK, Venkataramannagudem. The tribal women from Madakamvarigudem village of Jeelugumilli mandal attended the training and learned about various components of Integrated Farming System that can be incorporated to the exist-

ing cropping pattern in their village.

On 26 November 2021, Sri. G. ShaliRaju, Scientist (Ento.), KVK, V.R.Gudem Conducted training programme on Integrated Pest and Disease Management (IPDM) in Vegetables and Maize to the tribal farmers from Marrigudem Village, Buttaigudem mandal.



On 26 November 2021, KVK, Venkataramannagudem, Dr. YSR Horticultural University conducted Training cum Exposure visit to Sai Rakesh vocational college, Gauravaram on Horticultural crops. Students got exposed to Processing and Skill training Centre, Mushroom unit, IBDC, Nursery etc. This program was coordinated by Dr. K. VenkataSubbaiah, Scientist (Horticulture) and Dr. A. Devivaraprasad Reddy, Scientist (Fisheries). In this program 100 students have participated.

On 24 November 2021, KVK, Pandirimamidi has conducted off campus training program on improved cultivation practices of cashew at I.Polavaram village and addressed the farmers on canopy management of young orchards, management of flower and fruit drop, integrated management of pests and diseases. Sri Bhanumurthy K.C, Scientist (Horticulture) coordinated the program. 28 farmers and technical assistants from Reliance Foundation have participated.





On 23.11.2021 KVK, Pandirimamidi has conducted off campus training program on improved cultivation practices of cashew at Gopavaram village and addressed the farmers on canopy management of young orchards, management of flower and fruit drop, integrated management of pests and diseases. Sri Bhanumurthy K.C, Scientist (Horticulture) coordinated the program. 25 farmers and technical assistants from Reliance foundation participated.



On 17 November 2021, Dr.B.Vijayasree, Research Associate (Home Science) conducted On campus Training Programme on “Nutrition smart Agriculture” at KVK, Periyavaram. The Farm women, extension functionaries (Anganwadi teachers) and SHG women of Dakkili, Venkatagiri, Balayapalli mandals of SPSR Nellore district were acknowledged about growing of Millets

along with cereals to promote Nutrition smart Agriculture and explained the importance of millets, promotion of Nutrithali, Millet meal and establishment of nutrigardens to prevent nutritional deficiencies and malnutrition among farming families. Dr.B.Govindarajulu Principal Scientist (PP) & Head enlightened the participants on different varieties of millets, fruit and vegetable crops to promote good nutrition for farming community. Later distributed Vegetable Seed kits (NHRDF) to the participants as part of FLD. In this programme ICDS–CDPO, ICDS supervisors, SERP VOA and KVK scientists have participated.

On 27 November 2021, Dr.B.Vijayasree, Research Associate (Home Science) attended as resource person for the programme on “Awareness Program on Nutrition and Health Education to the Adolescent girls in rural areas” conducted by Common Service Centre (CSC), e-Governance services India Ltd, “Stree Swabhiman yojana” under the Ministry of Electronics and Information Technology, Government of India – Digital India, at A.P. Residential School for girls, Venkatagiri. The adolescent girls of the school were acknowledged with awareness on Nutrition education, Sanitation, Health and Hygiene aspects to build their knowledge, skills, and positive attitudes about Nutrition and health.



### Diagnostic Visits



On 20 November 2021, Dr. V. Nagarjuna, Research Associate (Soil Science) from KVK, Vonipenta, conducted field visits for monitoring the flooding conditions at Sivapuram, Gaddamavari-palli, Somyajulapalli and Pullur villages of Mydukur and Khajipet mandals. The scientist observed black gram, Paddy, Groundnut and Maize crops and suggested the management practices i.e., tagging the paddy tillers, application of rock salt

for arresting the germination of fallen grains, application of plant growth regulator for flowering in black gram and removal of excess water from crop fields. MAO, Mydukur and VAA, VHA also visited the farmers fields.



Dr.Ch.Ruth, Prof.(Pl.Path.) and Dr.K.Swarajya Lakshmi, Professor (Hort.), CoH, Anantharajupeta along with PG students, RBK staff and farmers conducted diagnostic visits at Nadimpalli and Venkatareddypalli villages on 21 and 26 November 2021 and observed mites, mealy bugs incidence, citrus greening, nutritional deficiencies and pumpkin beetles damage in guava and sweet orange crops respectively and suggested control measures.



Dr.Ch.Ruth, Prof.(Pl.Path.) and Dr.K.Swarajya Lakshmi, Prof.(Hort.), College of Horticulture, Anantharajupeta along with PG students and farmers visited coconut plantation (8months old) at NVS colony, Venkatareddypalli village of YSR. Kadapa district on 29 November 2021 and observed rare pest i.e, coconut skipper *Gangarathysis* @ 5 to 10 leaf folds per plant, Rhinoceros beetle damage and rotting of flag leaf and suggested Chlorpyrifos spray @ 2.5 ml/L followed by Chlorantraniprole granules @5g./plant.

Dr.C.Sarada, Principal Scientist (Hort), Dr.K.Sireesha, Senior Scientist (Ento) and Dr.A.Rajani, Senior Scientist (Hort), HRS, Lam attended diagnostic field visit in chilli fields around Nandigama, Penuganchiprolu, Chandaluru, Vatsavai and Jagaihpmandals of Krishana district on 16 November 2021 along with officers of Dept of Horticulture.

Smt.T.Vijaya Lakshmi, Senior Scientist (Path) and Dr.K.Sireesha, Senior Scientist (Ento), HRS, Lam attended diagnostic field visit in chilli fields around Edlapadu Guntur District on 22 November 2021 along with officers of Dept of Horticulture.

Dr.P.Ashok, Senior Scientist (Hort.) and Dr. M Ravindra Babu, Senior Scientist (Hort.) HRS, V.R.Gudem conducted a diagnostic visit to Papaya, *Coccinia* fields at Jaggannapeta and Telikacharla in collaboration with Reliance Foundation on 26 November 2021 and suggested suitable control measures for downy mildew, Pumpkin beetles and red spider mites.



On 17 November 2021 Dr V Deepthi, Scientist (Agril Extension) KVK Venkataramannagudem has conducted diagnostic visit to brinjal fields in Telikicherla village, Nallajerla mandal and observed fruit and shoot borer infestation and suggested to spray profenophos 2ml per litre at 2-3 times with 10days interval.

On 22 November 2021, Dr. K. VenkataSubbaiah, Scientist in Horticulture went to Amruthapuram for diagnosing and observing ongoing technical programme on Assessment of Ridge gourd var. Arka Prasana ridge gourd field and also recorded the harvested produce and suggested suitable remedial measures for further improvement of crop yield.





On 23 November 2021, Dr. V. Yugandhar, Research Associate (Horticulture) and Dr. S. Lavanya, Research Associate (Livestock production) of Krishi Vigyan Kendra, Vonipenta had visited Tomato and Papaya fields at T.Kothapalli village of Mydukur mandal. During the visit scientists suggested to drain out excess water from fields followed by spraying of Potassium nitrate @ 5g per liter in Papaya and Tomato and also observed wilting symptoms in Papaya and Tomato. Suggested soil drenching with Copper oxy chloride or Metalaxyl M.Z @ 0.3% after draining excess water from the field.



On 23 November 2021, Dr. V. Yugandhar, Research Associate (Horticulture) and Dr. S. Lavanya, Research Associate (Livestock production), KVK, Vonipenta, visited Maize fields for diagnosis of pests and diseases at Tippireddipalli village of Mydukur mandal. Observed the incidence of Fall Army Worm (FAW) in Maize and suggested to spray Emamectin Benzoate @ 0.04% or Thiodicarb @ 0.05% against FAW.

On 23 November 2021, Dr. Srividya Rani N, Scientist and Head (Extension) and Dr. V. Nagarjuna, Research Associate (Soil Science) from KVK, Vonipenta, conducted field visits for monitoring the flooding conditions at Mittamanupalli, Machugaripalli, Vonipenta and Duvvur villages of Mydukur and Duvvur mandals. Observed the black gram, Paddy, and Turmeric crops and suggested the management practices i.e., tagging the paddy tillers, application of rock salt for arresting the germination of fallen grains, application of plant growth regulator for flowering in black gram, removal of excess water from crop fields and drenching with metalaxyl @ 1 gm/lit for controlling spreading of Rhizome rot disease in turmeric. ADA, FTC, MAO, Mydukur, MAO, Duvvur and VAA, VHA also visited the farmers fields.



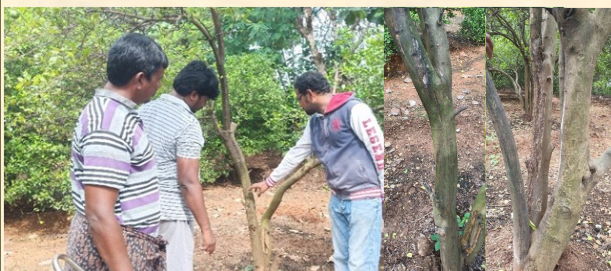
On 25 November 2021, Dr. V. Nagarjuna, Research Associate (Soil Science) and Dr. S. Lavanya, Research Associate (Veterinary science) KVK, Vonipenta had visited Black gram fields for diagnosis of pest and disease incidence at Lekkalavari-palli and Ganjikunta villages of Mydukur mandal. During the visit, scientists observed Corynespora leaf spot leaf spot and Leaf crinkle disease in black gram and suggested to spray with Hexaconazole @ 2 ml/lit and Propiconazole @ 1 ml/lit for control of Corynespora leaf spot leaf spot and Thiamethoxam @ 0.2 gm/lit for the insect vector.

On 25 November 2021, Dr. V. Yugandhar, Research Associate (Horticulture) and Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited banana fields for diagnosis of pests and diseases at Thimmayapalli village of Mydukurmandal. Observed the Sigatoka leaf spot disease in banana fields and suggested to spray Chlorothalonil @ 0.2% or Propiconazole @ 0.1%.





On 16 November 2021, Dr.B.Govindarajulu Principal Scientist (PP) & Head visited Acid lime orchards and nurseries in Gudur and Sydapuram mandals and enlightened the citrus growers regarding protective measures to be taken up due to heavy rains.



On 24 November 2021, Dr. K Mallikarjunarao, Research associate (Horticulture), KVK, Periyavaram, visited acid lime orchard at Siddavaram village, Venkatagiri Mandal and SPSR Nellore District. Observed Longitudinal bark and wood splitting disease and suggested to prune and destroy dried up twigs

and branches followed by spraying of 0.1% Carbendazim twice at 15 days interval over the trunk and branches and drenching of 1% Bordeaux mixture (1lt /1 sq.m area) at the tree basin immediately after the next day of irrigation.

On 25 November 2021, Dr. K Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavaram visited chilli nurseries at Chintagunta Village, Venkatagiri mandal and SPSR Nellore District. Observed damping off in chilli and recommend to drench nursery beds with Copper oxychloride @3g/l (or) 1% Bordeaux mixture, twice at weekly interval and suggested to uproot and destroy the infected seedlings.



On 27 November 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited mango field for diagnosis of pests and diseases at Singarayapalle village of Kalasapadu mandal. Observed Mango hoppers in Mango and recommended to spray chlorpyrifos 20%E.C @ 2 ml /l to control pest.

On 27 November 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Turmeric fields for diagnosis of pests and diseases at Eguva Thamballapalle village of Kalasapadu mandal. Observed leaf spot disease infection in turmeric and recommended to spray with Mancozeb @ 0.25% or Chlorothalonil @ 0.25%.



### Front Line Demonstrations



Dr. T. Janakiram, Hon'ble Vice-Chancellor along with Dr. B. Srinivasulu Director of Extension Dr. YSR Horticultural University participated as chief guest and addressed the participants and distributed the "Community Nutri-garden Kits" to the tribal women group from Madakamvarigudem of Jeelugumilli mandal on 16 November 2021 as part of FLD on Community Nutri Gardens under Home Science Discipline.



On 23 November 2021, Dr. S. Lavanya, Research Associate (Livestock production) and Dr. V. Yugandhar, Research Associate (Horticulture) visited Rajasri poultry breeds under FLD on “Assessment on performance of Rajashree poultry breeds as dual purpose backyard poultry” for follow up at T. Kotapalli village of Mydukur mandal. The scientist explained the rearing practices of Rajasri chicks and gave information on locally available feed ingredients like broken rice, ground nut straw, wheat grain, and rice bran need to be given for chicks.



On 25 November 2021, Dr. S. Lavanya, Research Associate (Livestock production) and Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta had visited Super Napier grass fields at Ganjikunta village of Mydukur mandal.

### National Milk Day

On the occasion of Birth anniversary of Dr.Vergese Kurien, “Father of White Revolution” in India, National Milk Day was celebrated on 26 November 2021 at KVK, Periyavaram. Training programme was organized for dairy farmers on “Disease management in Cattle and Buffaloes” by Dr.P.Manjari, Scientist (Veterinary Science), KVK, Periyavaram and acknowledged the farmers regarding various diseases, its preventive measures and emphasized supplementation of animal feed with mineral mixtures and bypass fat for better reproductive health and higher production. Dr.S.Rasool, ADAH, Venkatagiri attended as Chief Guest and enlightened the farmers regarding clean milk production techniques and ways of preventing udder diseases. They attended webinar conducted by ICAR-NDRI, Karnal on “Sustainable Dairy production: Clean milk Production” and were acquainted with latest technologies of detecting adulteration and residues in milk. As part of FLD on demonstration of bypass fat supplementation on milk production, Dr.B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram distributed bypass fat packets to the beneficiaries.



On 26 November 2021 Dr. SrividyaRani. N, Scientist & Head, Dr. S. Lavanya, Research Associate (Livestock production), Dr. V. Nagarjuna, Research Associate (Soil Science) and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta conducted National Milk Day at Krishi Vigyan Kendra, Vonipenta. During the programme Dr. S. Lavanya explained the importance of clean milk production and best milking methods to

farmers. Dr. V. Nagarjuna explained the nutritional value of milk and importance of rearing of cattle in Integrated Farming Systems for creation of employment and generating additional income. RHWEP students also participated in this programme.



National Milk Day was celebrated at KVK, Venkataramanagudem on 26 Novemembr 2021. Conducted awareness programme on importance of feed and fodder management to the tribal farmers and participated in the online webinar on “Clean milk production and Disease Management in cattle and Buffalo” Organized by ICAR-NDRI, karnal. Dr. A. Devivaraprasad Reddy Scientist (Fisheries) co-ordinated the programme.



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

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

Date	Topics
16.11.2021	దానిమ్మ సాగులో మెళకువలు శ్రీమతి బి.విమల, శాస్త్రవేత్త, ఉద్యాన పరిశోధనా స్థానం, అనంతపురము
17.11.2021	కొబ్బరి విత్తనపు కాయ ఎంపిక మరియు నాటే సమయంలో తీసుకోవలసిన జాగ్రత్తలు డా.బి.వి.కె భగవాన్, ప్రధాన శాస్త్రవేత్త & హెడ్, ఉద్యాన పరిశోధనా స్థానం, అంబాజీపేట
18.11.2021	అరటిలో నాణ్యమైన గెలల దిగుబడికి పాటించవలసిన మెళకువలు డా.ఆర్.నాగలక్ష్మి, సీనియర్ శాస్త్రవేత్త, ఉద్యాన పరిశోధనా స్థానం, కొవ్వూరు
19.11.2021	జామలో నులి పురుగుల యాజమాన్య పద్ధతులు డా.ఎం.ముత్యాల నాయుడు, ప్రధాన శాస్త్రవేత్త & హెడ్, ఉద్యాన పరిశోధనా స్థానం, దర్శి
20.11.2021	జీడిమామిడిలో పురుగుల యాజమాన్యం డా.బి.నాగేంద్ర రెడ్డి, శాస్త్రవేత్త, జీడిమామిడి పరిశోధనా స్థానం, బాపట్ల
22.11.2021	చీని, నిమ్మలో సమగ్ర పోషక యాజమాన్యం డా.బి.గోవింద రాజులు, ప్రధాన శాస్త్రవేత్త & హెడ్, కె.వి.కె, పెరియవరం
23.11.2021	అపరాల సాగులో మెళకువలు డా.వి.దీప్తి, శాస్త్రవేత్త, కె.వి.కె, వెంకటరామన్నగూడెం
24.11.2021	ఆయిల్ పామ్ తోటలలో సమగ్ర పోషక మరియు నీటి యాజమాన్యం డా.పి.మాధవీలత, సీనియర్ శాస్త్రవేత్త, ఉద్యాన పరిశోధనా స్థానం, విజయరాయి
25.11.2021	అరటి ఎగుమతికి పాటించవలసిన మేలైన యాజమాన్య పద్ధతులు డా.టి.సుశీల, సీనియర్ శాస్త్రవేత్త & హెడ్, అరటి పరిశోధనా స్థానం, పులివెందుల
26.11.2021	ఉల్లి మరియు వెల్లుల్లిలో సమగ్ర సస్యరక్షణ డా.కె.సుబ్రహ్మణ్యం, ప్రధాన శాస్త్రవేత్త & హెడ్, ఉద్యాన పరిశోధనా స్థానం, మహానంది



Date	Topics
27.11.2021	మిరప సాగులో సమగ్ర పోషక యాజమాన్యం డా.సి.వెంకట రమణ, సీనియర్ శాస్త్రవేత్త, ఉద్యాన పరిశోధనా స్థానం, లాం
29.11.2021	చీని, నిమ్మ తోటలలో సమగ్ర పురుగుల యాజమాన్యం డా.డి.శ్రీనివాస రెడ్డి, సీనియర్ శాస్త్రవేత్త, చీని, నిమ్మ పరిశోధనా స్థానం, తిరుపతి
30.11.2021	తీగజాతి కూరగాయల సాగులో మెళకువలు

**“Udyana Vani” programs under Farmers Advisory Cell of Dr YSRHU**

Dr YSRHU-Farmers Advisory Cell organized the following “Udyana Vani” Programs during the second fortnight of November, 2021.

Date	Topics
17.11.2021	నవంబర్ మాసంలో వివిధ తోట పంటలలో చేయవలసిన పనులు మరియు సూచనలు; గులాబీ, గ్లాడియోలస్ సాగులో మెళకువలు; COVID-19 Guidelines
18.11.2021	నవంబర్ మాసంలో వివిధ తోట పంటలలో చేయవలసిన పనులు మరియు సూచనలు; ఫ్యాషన్ ట్రూట్, వాక్యాయ సాగులో యాజమాన్య పద్ధతులు – సస్యరక్షణ చర్యలు
19.11.2021	నవంబర్ మాసంలో వివిధ తోట పంటలలో చేయవలసిన పనులు మరియు సూచనలు; జేర్పెర, హేలికోనియ సాగులో మెళకువలు
20.11.2021	నిమ్మ సాగులో మేలైన యాజమాన్య పద్ధతులు
22.11.2021	మిరప సాగులో మెళకువలు
23.11.2021	గోరుచిక్కుడు, చిలగడ దుంప, పెండలం మరియు కంద సాగులో మెళకువలు
24.11.2021	సేంద్రియ వ్యవసాయంలో జీవ ఎరువుల ప్రాముఖ్యత
25.11.2021	నవంబర్ మాసంలో వివిధఉద్యాన పంటలనందు చేయవలసిన పనులు మరియు సూచనలు
26.11.2021	నవంబర్ మాసంలో వివిధఉద్యాన పంటలనందు చేయవలసిన పనులు మరియు సూచనలు; పుట్టగొడుగుల పెంపకం
27.11.2021	నవంబర్ మాసంలో వివిధ ఉద్యాన పంటలనందు చేయవలసిన పనులు మరియు సూచనలు ;రబీ మాసంలో ఉద్యాన మరియు వ్యవసాయ పంటలలో పాటించవలసిన మెళకువలు
29.11.2021	కూరగాయల సాగులో తెగుళ్ళ యాజమాన్యం
30.11.2021	వాతావరణ సూచనలు; నవంబర్ మాసంలో పూల తోటలలో చేయవలసిన పనులు మరియు సూచనలు ఆకుకూరల సాగులో మెళకువలు



## Technical support to RBK Channel

Following Scientists of Dr YSRHU are deputed for recording technical content at Integrated Call Centre, Gannavaram through RBK Channel during the second fortnight of November, 2021.

Date	Topic	Scientist Name
19.11.21	రబీ కూరగాయల సాగులో మేలైన యాజమాన్య పద్ధతులు	Dr.K.Venkata Subbaiah, Scientist & Head, KVK, V.R.Gudem
22.11.21	ఆధునిక పద్ధతిలో కూరగాయల నారు పెంపకం	Dr.M.Ravindrababu, Sr.Scientist (Hort.), HRS, V.R.Gudem
26.11.21	వివిధ రకాల పండ్లకు రవాణా సమయంలో తీసుకోవలసిన ప్యాకింగ్ విధానములు	Dr.R.Rajyalakshmi Sr.Scientist, MRS, Nuzvid
29.11.21	మిడ్డెపై కూరగాయల సాగు – నమూనాలు	Dr.E.Karuna sree, Principal Scientist & Head, KVK, Venkataramannagudem

## Phone-in Live Programmes

Dr. Mamatha N.C., Teaching Associate (Veg. Sci.) delivered a radio talk on "Tomato Saagulo Sasyarakshana" on 16<sup>th</sup> November, 2021 at All India Radio, Tirupati, which was aired on 18<sup>th</sup> November, 2021.

On 30.11.2021 Dr.B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram attended as resource scientist in Phone- in programme, Multi audio conference on the topic "Adhika varshala valana nimma, Cheeni, thotalalo chepattavalasina nashta nivarana charyalu" conducted by Reliance foundation , Nellore and attended to queries of farmers of Nindali, Venkatareddipalli, Vakyam, Alimili, Balayapalli villages of Balayapalle mandal, SPSR Nellore dist.

## TV Programmes

Dr. R. Naga Lakshmi, Senior Scientist (Hort.), HRS, Kovvur attended Pasidipantalu Live Phone in programme on "Best management practices to be followed in banana during winter" telecasted in DD saptagiri on 25.11.2021.

## General

### Visits

Dr. C. Byju, Principal Scientist & Head (Crop Production Division), ICAR -CTCRI, Thiruvananthapuram and scientists ICAR-CTCRI Dr.A.V.V. Koundinya and C. Pradeepika visited experimental plots pertaining to AICRP on tuber crops at HRS, Kovvur on 25.11.2021.



Sri V. Venkata Ranga Rao, acid lime grower from Rajahmundry, visited PHTRS, V.R.Gudem 25 November 2021. Dr. B.Babu Rao, Research Associate (Horticulture) demonstrated about the functioning of fruit grading and sorting unit, cold storage and ripening chambers at integrated pack house unit and fruit and vegetable processing unit.



Y.Mukesh Varma, Agriculture B.Sc. final year RAWEP student from College of Agriculture, Saralgaon, Maharashtra and Agriculture B.Sc. final year RAWEP students (8 no.) from Lovely Professional University, Punjab visited PHTRs, V.R.Gudem on 16 & 22 November respectively. Dr. B.Babu Rao, Research Associate (Horticulture) Demonstrated about the functioning of fruit grading and sorting unit, cold storage and ripening chambers at integrated pack house unit.



Explained the feasibility in establishment of acid lime based food processing industry and the preparation of different value added products from acid lime to a group of acid lime growers and traders from Eluru, West Godavari District, Andhra Pradesh who visited on 30.11.2021, by Dr. B.Babu Rao, Research Associate (Horticulture).

### Meetings

Dr.R.Nagaraju, Principal Scientist & Head, Dr. L. Mukunda Lakshmi, Senior Scientist (Hort), CRS, Tirupati and Dr.G.Ramanandam, Principal Scientist (Hort.)& Head, Dr.K.Ravindra Kumar, Senior Scientist (Hort.), HRS, Kovvur attended National training programme on “ Conservation, Management and Utilization of Horticultural Genetic Resources for Livelihood and Nutritional Security ” through virtual mode from 22 to 26 November 2021. Dr.K.Ravindra Kumar, Senior Scientist (Hort.) presented research work entitled “Collection, in vitro multiplication and restoration of endangered native banana cv. Amrutapani (AAB)”.

Dr.K.Ravindra Kumar, Senior Scientist (Hort.) and Dr.G.Ramanandam, PS (Hort.) & Head participated in banana exploration programme from 15<sup>th</sup>-16<sup>th</sup> November, 2021 at High Altitude Tribal Zone of Visakhapatnam to collect the hill bananas and other germplasm accessions from Chintapalli, G.K.Veedhi and G.Madugula mandals. Dr.Sivakumar, Scientist (Hort.) & Head, HRS, Chintapalli accompanied the survey programme and assistance was given for the exploration programme.



Dr. ChS. Kishore Kumar, Scientist (Plant Pathology), HRS, Kovvur attended 21 day training programme on “Plant Health Management strategies in different crops” at NIPHM from 10.11.2021 to 30.11.2021.

Dr. M. Janaki, Scientist (Hort.) & Head, HRS, Peddapuram has attended the webinar on “Post harvest processing and value addition in cassava” organized by ICAR- Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala on 18-11-2021 in virtual mode.

Dr. M. Janaki, Scientist (Hort.) & Head, HRS, Peddapuram has attended the “Stakeholders meet – cum – planning workshop on diversifying cassava value chains for promoting starch industries” organized by ICAR- Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala on 22-11-2021 in virtual mode.



Dr. B. Ramesh Babu, Senior Scientist (Hort.) HRS, V.R.Gudem has participated in a webinar on “Translational genomics for improvement of horticultural crops” organized by global connect series in collaboration with Plant genomics and Biotechnology, West Virginia State University, USA on 27 November 2021.

Scientist of Horticultural Research Station, Ambajipeta participated in 30<sup>th</sup> Annual Group Meeting through virtual mode conducted by AICRP on Palms, Kasaragod, Kerala from 22<sup>nd</sup> to 24<sup>th</sup> November, 2021. In this meeting Sri A. Kireeti presented crop improvement results and Dr. V. Govardhan Rao, Scientist (Pl.Path.) gave a presentation on Disease management and Transfer of Technology during the respective session.

### 9<sup>th</sup> Indian Horticulture Congress-2021

The following scientists of Dr.YSRHU were participated in the 9<sup>th</sup> Indian Horticulture Congress-2021 from 18 to 21 November, 2021 at Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, Uttar Pradesh which which was organized by Indian Academy of Horticultural Sciences, New Delhi and presented papers and posters on various sessions

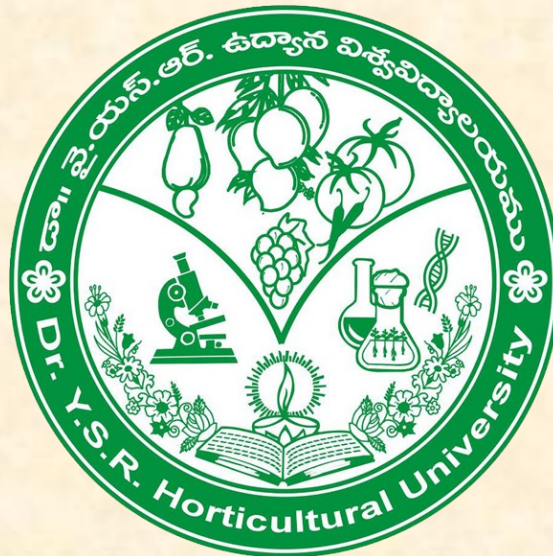
Name of the Scientist	Type of Presentation	Title
Dr. B.V. K. Bhagavan, Principal Scientist (Hort.) & Head, HRS, Ambajipeta	Presentation	Impact of INM in coconut based high density cropping system in East coast Region of Andhra Pradesh
Dr. N.B.V. Chalapathi Rao, Principal Scientist (Ent.), HRS, Ambajipeta	Presentation	Successful Bio-control of Coconut Slug caterpillar ( <i>Macroleptra nararia</i> ) with potential parasitoid <i>Pediobius imbrues</i> (Hymenoptera:Eulophidac) in Andhra Pradesh
Dr.K.Ravindra Kumar, Senior Scientist (Hort.), HRS, Kovvur	Paper (virtual)	Standardization of in vitro commercial multiplication of ivy gourd ( <i>Coccinia indica</i> )
Dr. A. Snehalatha Rani, Scientist (Plant Pathology), HRS, Kovvur	Posters (virtual)	‘Non-chemical management of postharvest diseases of banana’ and ‘Survey for plant parasitic nematode genera associated with banana crop in Andhra Pradesh’
Dr. K. Venkata Subbaiah, Scientist (Horticulture), KVK, Venkataramannagudem	Paper (virtual)	Changes in qualitative nutritional and sensory profile of banana biscuits prepared from native variety of Andhra Pradesh in storage period
	Poster (virtual)	Demonstration on Improved Cultivation Practices in Ridge gourd for Livelihood Improvement of Tribal farmers in West Godavari district of Andhra Pradesh
Sri. G. ShaliRaju, Scientist (Ento.), KVK, V.R.Gudem	Poster (virtual)	Impact of Demonstrations on Integrated Pest Management in Brinjal and Okra on Livelihood Improvement of Tribal farmers in West Godavari district of Andhra Pradesh



On 30.11.2021 Dr V Deepthi, scientist (Agril extension) KVK Venkataramannagudem has attended the online workshop on natural farming which was organized under the chairmanship of Vice-Chairman, NITI Aayog

## Publications

Rajipushpaltha, VSSanthosh Mithra, S.Sunitha, James George, M Nedunchezhiyan, K.Mamatha, P.Ashok, Sheriful Alam, BK Saud, J Tarafdar, Surajit Mitra, Chandra Deo, M Velmurugan, G.Suja, V.Ravi. 2021. Impact of climate change on the yield of tropical root and tuber crops vs rice and potato in India. Food security. (NAAS rating 8.1).



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