



# Dr YSRHU e-Newsletter

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



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Dr YSRHU e-Newsletter

1-15 December 2021

Indian Council of Agricultural Research



Certificate

**PANDIT DEENDAYAL UPADHYAY ANTYODAYA KRISHI PURASKAR-2019**  
(Zone X)

is presented to

**Smt. Tellam Ramana**

East Rekulakunta, Buttaigudem Mandal, Distt.-West Godavari, Andhra Pradesh

**Fortnight Focus**

- The Events
- Education
- Research
- Extension
- General

(T. Mohapatra)  
Secretary (DARE) &  
Director General (ICAR)

(Narendra Singh Tomar)  
Agriculture & Farmers Welfare Minister, GoI  
& President, ICAR Society

**From Vice-Chancellor's Desk**

## **AQUA BASED HORTI-IFS:A VIABLE MODEL FOR DOUBLING FARM INCOME**

Integrated Farming System (IFS) is considered to be a powerful tool and holds the key for ensuring income, employment, livelihood and nutritional security. In the IFS approach, horticulture provides excellent opportunities in raising income of the farmers even under abrasive conditions.

Dr.YSRHU - Krishi Vigyan Kendras (KVKs) have validated 15 IFS models in operational areas. Among the successful IFS models accepted by the farmers, Aqua (Fish pond) based Horti-IFS is a very successful model for doubling income in tribal areas, where fish ponds are commonly existing.

With intervention of Dr.YSRHU-KVK, Venkataramannagudem, M/s.Tellam Ramana, Tribal women farmer has received ICAR award "Pandit Deendayal Upadhyay Antyodaya Krishi Puraskar-2019 and state level "Outstanding performance award-2019 for adopting and popularizing Fish pond based Horti-IFS model.

**Dr T.Janakiram**  
Vice-Chancellor

## The Events

### Dr. B.R.Ambedkar's Vardanthi

Dr. B. R. Ambedkar's 65<sup>th</sup> Vardhanti was observed at Dr.YSRHU Administrative Office and all the institutes of Dr.YSRHU on 6 December 2021. All the staff and students paid floral tributes in commemoration of his contributions and reforms made as the architect of Indian Constitution



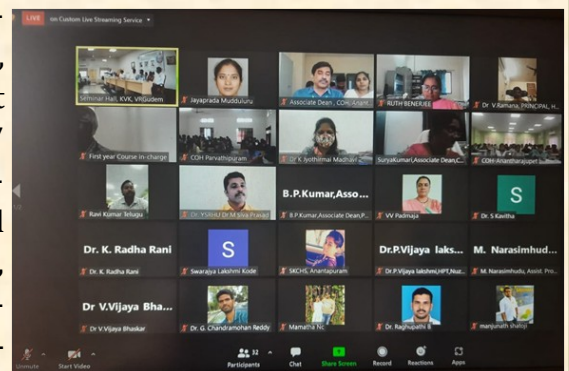
### Amarajeevi Sree Potti Sriramulu Vardanthi

Amarajeevi Sree Potti Sriramulu Vardanthi was observed at Dr.YSRHU Administrative Office and all the institutes of Dr.YSRHU on 15 December 2021. All the staff and students paid floral tributes in commemoration of his contributions and reforms made as well as the formation of the Andhra Pradesh state.



### National Agriculture Education Day

"Agricultural Day Celebrations" at University level was organized by NSS Cell, COH, Venkataramannagudem & CoH, Anantharajupeta of Dr. YSRHU on 3 December 2021 at KVK, Venkataramannagudem on hybrid mode (physical 7 virtual). Dr. T. Janakiram, Hon'ble Vice-Chancellor, Dr. YSRHU, the chief guest, gave keynote address and presented "Best NSS Programme officers" awards to Dr. C. N. Byanna, Principal and NSS Programme Officer, Horticultural Polytechnic College, Kalikiri, and Dr. B. TanujaPriya, Senior Scientist (Horti.) on this special occasion. The programme was presided over by Dr. A. Sujatha, Dean of Student Affairs & NSS Programme Coordinator, Dr. YSRHU. Dr. B. Srinivasulu, Associate Dean, COH, Anantharajupeta presented "Glimpses of NSS activities in Dr. YSRHU". Chief guest of the programme Prof. K. Hemachandra Reddy, Chairman, Andhra Pradesh State Council of Higher Education (APSCHE,) Govt. of Andhra Pradesh, Guntur, gave



valuable message on this occasion. Distinguished university officers, Dr. A. S. Padmavathamma, Dean of Horticulture and Controller of Examinations, Dr. R.V.S.K. Reddy, Director of Research, Dr. B. Srinivasulu, Director of Extension, Dr. K. Gopal, Registrar, Dr. K. Dhanumjaya Rao, Director of Industrial and International programmes, Dr. D.V. Swamy, University Librarian, Sri. K. Ratna Kishore Babu, Public Relations Officer and all other university officers, Associate Deans of all the colleges (V.R.Gudem, Anantharajupeta, Chinalatarapi, Parvathipuram), Principals of all the Diploma colleges and affiliated college Associate Deans, respective NSS programme officers and programme organizers Dr. K. Umajyothi, Associate Dean, COH, Venkataramannagudem, Dr. B. Srinivasulu, Associate Dean, COH, Anantharajupeta and NSS Programme officers of COH, V.R.Gudem and Anantharajupeta, staff and students of DR. Y.S.R. H.U. participated in the programme.



On this day, Prof. K. Hemachandra Reddy, Chairman of A.P. State Council of Higher Education, Govt. of A.P and Dr. T. Janakiram, Hon'ble Vice-Chancellor of Dr. YSRHU Inaugurated the English Language Laboratory on 3<sup>rd</sup> December, 2021 at Horti Business Incubation Centre (HBIC), College of Horticulture, Venkataramannagudem under the chairmanship of Dr. K. Uma Jyothi, Associate Dean. Dr. A.S. Padmavathamma, Dean of Horticulture, Dr. A. Sujatha, Dean of Student Affairs and Dean of PG studies, Dr. B. Srinivasulu, Director of Extension, Dr. K. Gopal, Registrar, Dr. Dhanunjaya Rao, DIIP, Dr. D. Venkataswami, University Librarian, teaching staff and students participated in the programme. Dr K. Uma Krishna, Professor & Head of the Department ESSC, Dr R.V. Sujatha, Assoc. Prof., In-charge HBIC, Dr. B. Ambedkar, Teaching Associate organised the programme.



Dr. K. Uma Krishna, Professor & Head of the Department ESSC, Dr R.V. Sujatha, Assoc. Prof., In-charge HBIC, Dr. B. Ambedkar, Teaching Associate organised the programme.

### HRD for Non-Teaching staff of Dr.YSRHU

ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad conducted 5 days training on “Administrative & Finance Management” for non-teaching staff (20 members) of Dr.YSRHU from 6 to 10 December 2021.



## Education

### NSS Activities

Dr.B.Srinivasulu, Associate Dean, Dr. K.Swarajya Lakshmi, Professor (Hort) PG and Phd students of College of Horticulture, Anantharajupeta voluntarily joined with other service societies and trusts & participated in Flood relief activities at Pulaputthur village, Akepadu Panchayath, of Nandalur Mandal, Kadapa Dist on 5 December 2021.



## Rythu Sadassus

Final year B.Sc. (Hons.) Horticulture students conducted Rythu sadassu and Exhibition at Nuzividu, Krishna district on 4 December 2021 as a part of RHWEP. Dr B.K.M. Lakshmi, Principal Scientist & Head, Dr R. Rajya Lakshmi, Principal Scientist, Dr. C.P. Viji, Associate Professor (Entomology) & Associate Dean Representative RHWEP, COH, VRG, and farmers participated in the programme.



On 7 December 2021 as a part of RHWEP, final year B.Sc. (Hons.) Horticulture students conducted Rythu sadassu and Exhibition at Nidumukkala village, Guntur district. Dr. T. Janakiram, Vice- chancellor, Dr YSRHU, and Dr. R.V.S.K. Reddy, Director of Research, Dr YSRHU interacted with the students through online (ZOOM) mode and released the pamphlet on thrips menace in chilli crop on this occasion. Dr. C. Sarada, Principal Scientist & Head, Lam, Guntur, Dr Vijaya Lakshmi, Sr. Scientist, Dr. P. Subbaramamma, Assistant Professor (Plant Physiology) & Associate Dean Representative RHWEP, COH, VRG, Dr. Rajani, Scientist (Hort.), Lam & Coordinator, RHWEP and Grama sarpanch, MPTC, Ex MPP and progressive farmers participated in the programme.

On 07.12.2021 Students of B.Sc. Horticulture (batch 2018) of Dr.YSRHU allotted to KVK, Periyavaram organized Rythu Sadassu and Exhibition at Siddavaram village of Venkatagiri mandal under the flagship of VC to Village programme. Dr.B.Govinda Rajulu, Principal Scientist and Head, KVK, Periyavaram, Dr.C.Madhumati, Principal Scientist and Head, CRS, Petlur and Sri Nagarjuna Sagar, ADA, Venkatagiri attended as chief guests. The students explained about the exhibits on horticulture techniques for enhancing productivity like IFS models, models of mulching, multilayer cultivation, protected cultivation, biofertilizers, etc to the guests and farmers.



On 13.12.2021 Rythu Sadassu was organized by RHWEP students of College of Horticulture, Anantharajupeta, Dr.YSRHU, V.R.Gudem allotted to Krishi Vigyan Kendra, Vonipenta. In this programme Dr Ramaya Professor (Entomology) and Dr.Arunodhayam, Assistant Professor (plant pathology), College of Horticulture, Anantharajupeta and Associate Dean Representatives addressed the farmers regarding the importance of the RHWEP programme and to practically learn the things which the farmers are doing in their own fields by involving the students. Pamphlet was released by the students regarding RHWEP activities done by the students. Dr. Srividya Rani, N, Scientist & Head, KVK, Vonipenta addressed the farmers on reduction of cost of cultivation, cultivation of crop based on market price and the activities of RHWEP students, vocational trainings, method demonstrations, arranging information corners in which the farmers are

benefitted by knowing the recent advancements in agriculture. Students also arranged a stall on varieties of fruits and vegetables grown in the villages, soil testing, water conservation and soil conservation measures etc. In this programme Dr.V.Yugandhar, RA, (Horti.) and Dr. S. Lavanya, R.A (Livestock production), RHWEP students and the farmers attended the programme.

### **e-books launching under ICAR-SCSP**

Dr. T.Janakiram, Vice-chancellor, Dr YSRHU launched the e-books at University Library on 7 December 2021 purchased under ICAR SCSP project grants received for CoH, Venkataramannagudem in the presence of 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. Principal Investigators of SCSP viz., Dr. T. sussela, Professor, Dr. M. Kalpana, Professor and Dr. N. Emmanuel, Associate Professor conducted the event under the chairmanship of Dr. K. Uma Jyothi, Associate Dean. Teaching staff and students have participated in the programme.



### **Exposure visit**

Dr. K.Swarajyalakshmi, Professor (Hort) guided the 3<sup>rd</sup> year CD batch students by visiting "Grama Panchayath Market" and "Raja - vegetable and fruit market" at Kodur for exposure visit. Students were explained about pack house technology, packing, transportation and supply chain management of fruits and vegetables. Students interacted with the fruit and vegetable vendors and buyers in the market.



Polytechnic students from Horticulture Polytechnic, Kalikiri visited Citrus Research Station under exposure visit Programme on 14/12/2021 and Dr. R. Nagaraju, Principal Scientist & Head, Dr. L. Mukundalakshmi, Senior Scientist (Hort), Dr.Srinivasa Reddy, Senior Scientist (Ent) and Dr. T. Rajasekharam have explained the research station

activities and Dry flower technology.

### **RHWEP Activities**

KVK, Periyavaram organized vocational trainings for RHWEP students of 2018 batch at All India Radio, Nellore (06.12.2021), Bio-control Lab., Nellore (09.12.2021), Soil Testing Lab., Nellore (09.12.2021), ATMA, Nellore (09.12.2021) and Ciphil Herbal Pvt. Ltd., Gudur (10.12.2021) as part of Multimedia training, plant protection, plant production and industrial training and got acquainted with the activities. The programmes were coordinated by Dr.P.Manjari, Scientist Veterinary Science and RHWEP In-charge, KVK, Periyavaram.



## Training program (Virtual mode) attended by PG-PHT students, COH-Anantharajupeta

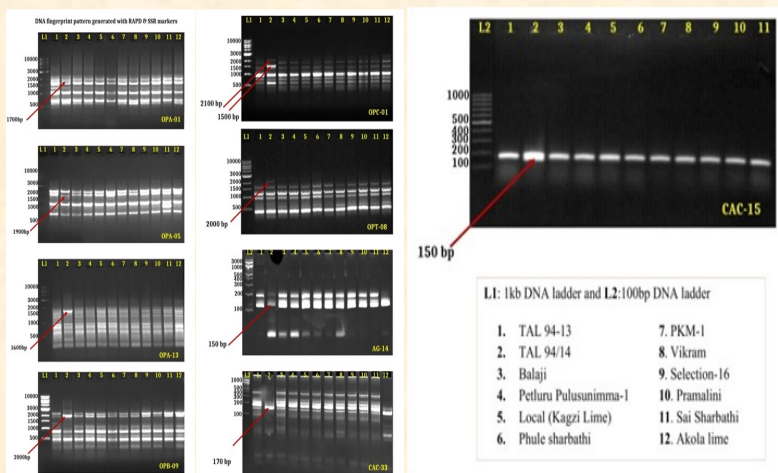
PG-PHT students have attended a six days training program on “Non-thermal food processing technologies for preservation and quality enhancement” which was started on 13<sup>th</sup> December 2021, organized by National Institute of Food Technology, Entrepreneurship and management, Thanjavur (NIFTEM).



## Research

### DNA fingerprinting of acidlime cv TAL-94/14

Acidlime genotypes TAL 94-13, TAL-94/14, Balaji, Petlur Pulusunimma-1, Phule sharbathi, PKM-1, Vikram, Selection-16, Pramalini, Sai Sharbathi, Akola lime and Kagzi lime were profiled with both SSR and RAPD markers. Based on allelic separation of SSR marker AG14, CAC15, CAC33 and RAPD markers OPA01, OPA05, OPA13, OPB09, OPC01 and OPT08, the acidlime genotype TAL-94/14 displayed distinct allelic differences with other acidlime genotypes viz., TAL 94-13,



Balaji, Petlur Pulusunimma-1, Phule sharbathi, PKM-1, Vikram, Selection-16, Pramalini, Sai Sharbathi, Akola lime and Kagzi lime. Out of 28 markers 20 markers are polymorphic in the twelve acidlime genotypes included in this study.

The SSR markers viz., AG14 (150bp); CAC33 (170bp); CAC15 (150bp) and RAPD markers viz., OPA01 (1700bp); OPA05 (1900bp); OPA13 (1600bp); OPB09 (2000bp); OPC01 (2100bp, 1500bp); OPT08 (2000bp) specifically amplified in TAL-94/14.

The promising Bio-control agent from Horticultural Research Station, Ambajipeta *i.e* *T.reesei* (YSRHU *Treesei*-1) has been deposited at National Agriculturally Important Microbial Culture Collection (NAIMCC), Maunath Bhavan, Uttar Pradesh by Dr.V.Govardhan Rao, Smt. B. Neeraja, Dr. A. Snehalatha Rani, Smt. T. Naga Laxmi and Dr. B. Srinivasulu from Horticultural Research Station, Ambajipeta and the accession number allotted is NAIMCC-F-04174.



Dr. V. Govardhan Rao, Scientist (Pl. Path), Dr. D. Devika Rani, Research Associate (Ent.) and Kum. A. Rachana, JRF (CDB TMOC Project) conducted survey and surveillance of coconut pest and diseases in various villages of Vishakapatnam (Nakkapalle, S. Rayavaram, Payakaraopeta, Atchutapuram and Bheemili), Vizianagaram (Bhogapuram, Pusapatirega, S.Kota and Kottavalasa) and Srikakulam (Ranastalam, Kaviti, Kanchili, Ichapuram and Sompeta) districts in Andhra Pradesh and collected soil and plant samples on 7<sup>th</sup> to 10<sup>th</sup> December 2021.



Dr.K.Mamatha, Principal Scientist (Hort), Dr K.Ravindra Kumar, Senior Scientist (Horticulture) and Dr Ch.S Kishore Kumar, Senior Scientist (Pl Path.), HRS, Kovvur visited Teeparru village of peralimandal and observed a well-developed fruit head of elephant foot yam and collected the seed for further evaluation.

## Extension Activities

### Dr.YSRHU Year of Citrus

#### Citrus Graduation Readiness Webinar

As part of “Dr.YSRHU Year of Citrus,2021”, CoH, Anantharajupeta has started “Citrus Graduate Readiness Programme for Agri/Horti. UG students” for 10 weeks (08-12-21 to 14-02-2022) in online mode. On this occasion the official inauguration was done by Hon’ble Vice Chancellor, Dr.YSRHU, Dr.T.Janakiram on 08-12-2021. Dr.Dilip Ghosh, Director, CCRI, Nagapur was the chief guest of the function. All the University Officers, Associate Deans of all the constituent and affiliated colleges of Dr.YSRHU, academic faculty from UHS Bagalkot & ANGRAU and students from various Universities have attended the programme. During this training program experts from National institutes across the country, scientists & faculties of Dr.YSRHU delivered lectures on various aspects of citrus. Students from all SAUs and ICAR institutes got registered for the training. About 1500 students enrolled themselves for this course.



#### Vice-Chancellor to Village Activities

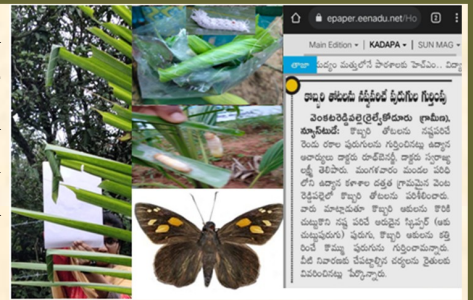
On 4 December 2021, Dr. V. Govardhan Rao, Scientist (Pl. Path.), Dr. G. Koteswara Rao, RA, (Hort.) and Kum. Sri Lakshmi Ramani (SRF) visited adopted village Mamidikuduru as a part of VC to Village programme and conducted awareness meeting on field demonstration of Biocontrol management of Rugose spiralling whitefly in coconut. Further on the occasion of World Soil day Dr V. Govardhan Rao Scientist (Pl.Path.) explained about soil health importance and their management for better production in adopted village Mamidikuduru in which Smt. Sailaja (HO), Sri. Ravi Shankar (VHA), Mamidikuduru Farmer Producer Organization farmers and coconut farmers have participated. Later visited Pedapatnam-lanka village for identification of beneficiaries and their field verification under SCSP sub plan.



Dr.G.Ramanandam, Principal Scientist (Hort)&Head, & Dr.Ch.S.Kishore Kumar, Sr.Scientist (PP) have visited the adopted village and proceeded to nearby horticultural crop fields(banana, cabbage & guava) to survey and diagnose the incidence of pests and diseases of various horticultural crops and observed the incidence of wilt in banana and pest incidence in cabbage. Explained the symptoms of pests and diseases, advised

the farmers to use correct fungicides and pesticides for controlling at correct time with correct dosage.

Dr.Ch. Ruth Benerjee, Professor (Pl.Path.) and Dr.KodeSwarajya Lakshmi, Professor (Hort.), CoH, Anantharajupeta visited the coconut gardens of farmer, located at Venkatareddipalli village on 30-11-2021. Noticed the leaf rolling insects and suggested control measures. The news on coconut skipper was covered in local newspaper on 1 December 2021.



Dr. K. SwarajyaLakshmi, Co-ordinator, VC to Village along with the team Mr. EreshKumar,TA (Agrl.Engg), Dr. Nalini, TA (Ento) and Dr. Kavitha, TA (Agrl.Extn), conducted Essay writing & Elocution competition to 7<sup>th</sup> and 8<sup>th</sup> class students of Mandal Praja Parishad School, Venkatareddipalli on Agricultural Education. Distrib-

uted prizes to the winners. On this occasion Smt. Aktharunnisa, a retired lecturer was invited as a guest speaker, who interacted with the students and motivated them to set goals and strive for their achievement. In this program Dr.Ch Ruth, Dr.Syed Sadarunnisa, Sri Harikrishna Reddy, Village Sarpanch, Panchayath Secretary have also participated and graced the occasion.

On 16 December 2021 a field visit was conducted by scientific staff of HRS, V.R.Gudem in adopted village Ramannagudem. During this program guava orchard of Sri Mohan Rao visited where incidence of mealy bug, rugose spiralling white fly was recorded apart from certain nutrient deficiency symptoms of potassium and boron. Very low incidence of red rust was also observed. To control rugose spiralling whitefly, erection of yellow sticky traps 20-25 per ha for trapping RSW adults. *Dichochrysa astur* 1000 eggs per acre for the RSW management, Water + detergent spray for 2 times at 15 days interval and Azadirachtin 10000ppm @1ml per lit + detergent spray 2 times at 10 days interval were recommended. Regarding nutrient disorder, foliar spray of K<sub>2</sub>SO<sub>4</sub> 2% at fortnightly interval to control K deficiency and to correct boron deficiency spraying of 0.3% boric acid before flowering was recommended.



### Front Line Demonstrations



On 4 December 2021, Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Tomato fields for follow up under FLD at Vonipenta village of Mydukur mandal. During the visit scientist explained about fertilizer management and disease management during the fruiting stage. Scientist observed septoria leaf spot in tomato and suggested to spray Mancozeb @ 0.2% to manage the disease.

On 7 December 2021, Dr. S. Lavanya, Research Associate (Livestock production) and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Rajasri poultry breeds under FLD on "Assessment on performance of Rajasri poultry breeds as dual purpose backyard poultry" for follow up at T. Kottapalli village of Mydukur mandal.





### Tribal Sub Plan

On 6 December 2021, Krishi Vigyan Kendra, Pandirimamidi has provided Sesame @2.5 kg per acre to the tribal farmers under TSP – 2021-22 in order to promote cultivation of Oil-seed crop in Paddy fallows during Rabi season. Total fifty farmers were benefited through seed distribution. P.Raja Sekhar, Scientist (SS & AC) Krishi Vigyan Kendra, Pandirimamidi coordinated this programme.



### On Farm Trial

On 8 December 2021, KVK, Pandirimamidi has conducted field day in paddy as part of on-farm trial on assessment of novel organic liquid nutrients in paddy at I.Polavaram village of Rampachodavaram mandal, P. Raja Sekhar, Scientist (SS&AC) has explained about the valid organic farming practices like use of qualitative composts, bio-fertilizers, organic manures etc rather than depending upon local organic formulations and conducted crop cutting experiment and got the expected yield of 5.9 t/ha under trial while the yield of 5.2 t/ha under farmer's practice. P. Raja Sekhar, Scientist (SS&AC) coordinated this programme.



On 7 December 2021, Dr.V.Nagarjuna, R.A. (Soil Science), form KVK, Vonipenta has conducted a follow-up visit for OFT "Evaluation of organic package in paddy" at Chapadu village of Chapadu mandal. During the visit the scientist observed the bacterial leaf blight in paddy and suggested to drain the field and to apply of 10 % Vermiwash for supplementing the potassium nutrient at farmer fields.

On 8 December 2021, Dr.V.Nagarjuna, R.A. (Soil Science), KVK, Vonipenta conducted a follow-up visit for OFT on Introduction of Groundnut variety K9 at Gudipadu village of Duvvur mandal. During the visit the scientist observed poor germination and low plant population due to continuous raining conditions (from past one month) at farmer fields.



### SC-SP Projects



On 2 December 2021 Dr. S. Lavanya, Research Associate, (Livestock production), Dr. SrividyaRani. N, Scientist & Head and KVK Staff from Krishi Vigyan Kendra, Vonipenta provided Black Bengal Goats to five SC farmers of Mydukur division including adopted villages of Krishi Vigyan Kendra, Vonipenta under ICAR- SC Subplan- 2021. Dr. S.

Lavanya, Research Associate (Livestock production) explained that Black Bengal Goat shows the high prolificacy, high fertility, early sexual maturity, adaptability to hot humid conditions and superior quality meat and skin. Dr. Srividya Rani, N, Scientist & Head guided the farmers how to generate income from Goat farming and explained the nutritive values of goat meat and milk.

Dr. J. Teja, SMS, Veterinary, KVK, Utukuru, Kadapa district participated in providing of goats and explained the breed characteristics like small in size but its body structure is tight. An adult male goat weighs about 25 to 30 kg and female about 20 to 25 kg.

Dr. P. SyamSundar Reddy, Assoc. Professor (Hort.) conducted training program on 15 December 2021 to SC-SP beneficiary farmers on advanced and scientific nursery technology", in high cost F1 vegetables where each and every seed is valuable.



### Training programmes

On 4 December 2021, KVK, Venkataramannagudem conducted training cum exposure visit on "Integrated farming system" to rural youth from Ganapavaram village. This program was co-ordinated by Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, Venkataramannagudem.



On 6 December 2021, KVK, Venkataramannagudem conducted skill training program on "Propagation techniques in Horticultural crops" to Govt. Degree college students, Pentapadu. Demonstrated grafting of mango and learnt other grafting techniques in fruit crops and Nursery Management. This program was coordinated by Dr. K. VenkataSubbaiah, Scientist (Horticulture), KVK, Venkataramannagudem.

On 6 December 2021, KVK, Venkataramannagudem conducted training cum exposure visit on "Scientific management practices in sheep and goat rearing" to rural youth from Pentapadu village. This program was co-ordinated by Dr.T.VijayaNirmala, Scientist (Veterinary Science), KVK, Venkataramannagudem.



From 7 to 9 December 2021, KVK, Pandirimamidi organised three days skill training programme on mushroom production and value addition to rural youth, women and farmers under TSP-2021. As a part of the programme practical sessions were conducted on spawn production (mother culture, mother spawn and commercial spawn production), selection, cutting and sterilization of paddy straw, bedding, spawning, maintenance of mushroom unit, casing, harvesting, packing, and preparation of value added products like mushroom nuggets, mushroom kofta, mushroom pakoda, mushroom bajji, mushroom fried rice, mushroom biryani, mushroom sauce, mushroom soup, mushroom cabbage salad, mushroom biscuits, dry mushrooms, dry mushrooms powder, mushroom kadai, mushroom curry etc. In this programme KVK staff, 25 trainees have participated. Dr. N. Chiranjeevi, Research associate (Plant Pathology) coordinated the programme.

Dr.D. Srinivasa Reddy, Senior Scientist (Ent), CRS, Tirupati attended farmers training programme as resource person on 9 December 2021 at Kona and Devalapalli of Kalakada mandal, Chittoor District on the topic " Pest and Diseases Management in Tomato".



On 3 December 2021, Dr. K Mallikarjunarao, Research associate (Horticulture), KVK, Periyavaram, conducted Off-campus training programme on "Importance and Methods of Seed treatment" at RBK-Kalaganda Village, Balayapalle mandal, to farmers and RBK staff on the eve of National Agricultural Education Day-2021. Explained about the importance of seed treatment, different methods of seed treatment and its advantages, recommendation of Insecticides, fungicides and bio-control agents to be used for seed treatment in major vegetable crops, acid lime, pulses, ground nut and paddy; and safety precautions in seed treatment. Later demonstrated seed treatment procedure in chilli, green gram and paddy. Dr. B. Govindarajulu, Principal Scientist and Head addressed the farmers regarding importance of Agricultural education day. In this program Dr. B. Vijaya sree, Research associate (Home Science), Ms. K Sravani, Research associate (Agricultural Extension), RBK – VAA, B. Panchulayya, Village volunteers and more than 20 farmers have participated.

On 3 December 2021, Dr.B.Vijayasree, Research Associate (Home Science) conducted training program on "Establishment of Nutrigardens through Organic Cultivation" at RBK, Kalaganda to farmers, farm women and RBK staff on the eve of Agricultural Education Day - 2021. The vegetable growing farmers are acknowledged on significance of Nutrigardens and discussed about vegetable crops grown in their area, consumption pattern at household level, market availability and income details. Provided awareness on importance of nutri garden and its establishment to meet the recommended dietary allowances of vegetables and fruits in the diet to reduce micro nutrient deficiencies and malnutrition among farming community in rural areas. Dr.B.Govindarajulu enlightened the participants on importance of organic cultivation and Agricultural Education Day. Vegetable Seed kits were distributed to the participants. Dr.K.Mallikarjunarao, Research Associate, Horticulture, Ms.K.Sravani, Research Associate, Agricultural Extension, RBK- VAA B.Penchulaiah and Village volunteers have participated.



On 14 December 2021, Dr. K. Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavaram conducted awareness programme on "Importance of drip irrigation and fertigation (per drop more crop)" along with mulching techniques for commercial vegetable and fruit production to farmers and rural youth at KVK Periyavaram.



On 14 December 2021, Dr. K. Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavaram conducted awareness programme on "Importance of drip irrigation and fertigation (per drop more crop)" along with mulching techniques for commercial vegetable and fruit production to farmers and rural youth at KVK Periyavaram.

On 8 December 2021 Ms .K.Sravani Research Associate (Agriculture Extension) conducted awareness programme on Cultivation practices of Groundnut Variety Kadiri Lepakshi 1812 under CFLD oilseeds programme to the farmers and explained about crop production and Dr.B.Govindarajulu Principal Scientist (PP) & Head acknowledged the farmers on pest management practices of Groundnut Variety Kadiri Lepakshi 1812 followed by distribution of Groundnut seed to the beneficiary farmers.



On 7 December 2021, KVK, Pandirimamidi conducted a one day training programme on Vaccination, Post mortem and Management of backyard poultry. Dr. Sravani conducted practical session regarding vaccination, post mortem in poultry birds and demonstration on brooding and Azolla cultivation. 18 trainees from GVK NGO participated in this programme.

On 6 December 2021, KVK, Pandirimamidi has conducted off campus training program on Importance and promotion of nutri gardening at Seethapalli village of Rampachodavaram mandal and addressed the SHG women on nutritional importance, production of quality vegetables in the backyards, models of nutri gardening etc. and provided vegetable seed kits. Sri Bhanumurthy K.C, Scientist (Horticulture) coordinated the program. 30 SHG women, DPD, Velugu and CC, Velugu participated.



On 06.12.2021 KVK, Pandirimamidi has conducted off campus training program on Effective tapping and processing methods in Rubber to farmers at Vetukuru village of Maredumilli mandal and addressed about identification of matured rubber trees for tapping, measures to be followed while tapping, processing etc. Sri Bhanumurthy K.C, Scientist (Horticulture) coordinated the program. 32 rubber farmers have participated.

### Diagnostic Visits

Dr.T.VijayaNirmala, Scientist (Veterinary Science) and Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, Venkataramannagudem visited indigenous cattle farm on 09.12.21 at Venkataramannagudem village, Tadeaplligudem mandal in coordination with Veterinary Assistant Surgeon (VAS), Department of Animal Husbandry, Tadeaplligudem. Observed Sahiwal cow showing symptoms such as diarrhea since one week, anorexia, weakness and reduced milk yield and suggested for deworming and oral administration of Neblon powder @50g through drinking water for 3 days.



On 06.12.2021, Dr. K Mallikarjunarao, Research associate (Horticulture), KVK, Periyavaram, visited Colocasia field at Siddavaram village of Venkatagiri Mandal (VC to village). Observed taro leaf blight disease and suggested to spray with Metalaxyl MZ (0.2%) twice at twenty days interval and enlightened about the best management practices of Colocasia.



On 14 December 2021, Dr. N. Chiranjeevi, Research Associate, KVK, Pandirimamidi has visited black thrips infested chilli fields at TP veedu, Gannavaram, Gowridevipatnam, Nandigama and Nellipaka villages of Yatapaka mandal and recommended suitable management practices to the farmers. In this visit Agriculture officer, Horticulture officer, Yatapaka, VAAs, VHAs and farmers participated.

On 07.12.21, Dr.T.VijayaNirmala, Scientist (Veterinary Science), KVK, V.R.Gudem visited small scale poultry farm of poultry farmer at V.R.Gudem village. Observed infected birds showing symptoms such as fluid accumulation around the eyes, inappetance, greenish diarrhoea, ruffled feathers, drooping of head and suggested treatment with oral administration of Enrocine liquid-2 ml in 1 liter of water, Lixen powder-1g in 1 liter of water and Famitone liquid-1ml in 1 liter of water for five days and also suggested separation of infected birds from healthy ones.



On 07-12-2021 Dr. K. VenkataSubbaiah, Scientist (Horticulture), KVK, Venkataramannagudem visited Veerampalem village for monitoring on going technical programs, participated in harvesting of Ridge gourd var. ArkaPrasana and also suggested to collect seeds from the selected fruits to preserve the seed for next season.

On 7 December 2021, Dr.V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta and Sri.G.Sandeep Naik, Scientist, HRS, Anantharajupeta had visited tomato fields for diagnosis of pest and disease incidence at Adireddipalli village of Mydukur mandal. Scientist observed the fruit borer in tomato and suggested to spray Flubendamide @ 0.03% to control the pest.



On 7 December 2021, Dr.V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta and Sri.G.Sandeep Naik, Scientist, HRS, Anantharajupeta visited tomato fields for diagnosis of pest and disease incidence at Adireddipalli village of Mydukur mandal. Scientists observed fruit borer in tomato and suggested to spray Flubendamide @ 0.03% to control the pest.

On 14.12.21, Dr.E.KarunaSree, Principal Scientist & Head, Dr.T.VijayaNirmala, Scientist (Veterinary Science) and Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, Venkataramannagudem visited poultry farm of women farmer under ARYA (Attracting and Retaining Youth in Agriculture) project. Observed that the health condition of improved birds was good and suggested supplementation of shell grit @10 per cent of poultry feed for higher egg production and also distributed supplements and medicines for more growth and egg production of birds.



On 4 December 2021 Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited chrysanthemum fields for diagnosis of pests and diseases at Vonipenta village of Mydukur mandal. The scientists observed aphid infestation in chrysanthemum and suggested to spray Methyl demeton @ 0.2% for control of aphids in chrysanthemum.

On 6 December 2021, Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited banana fields at T.Kothapalli village of Mydukur mandal. During the visit scientists observed Sigatoka leaf spot and potassium deficiency in banana and suggested foliar application of Trifloxystrobin along with Tebuconazole @ 0.5 gm/lit and Potassium sulphate @ 5g per liter for control of the spread of the disease and correcting nutrient deficiency.



On 7 December 2021, Dr.V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta and Sri.G.Sandeep Naik, Scientist, HRS, Anantharajupeta visited Bitter gourd fields for diagnosis of pests and diseases at Settivaripalle village of Mydukur mandal. The scientist observed thrips infestation and recommended spraying of Dimethoate @ 0.2%.

### World Soil Day

On 05.12.2021, KVK, Pandirimamidi has celebrated World Soil Day with slogan on “Halt Soil Salinization, Boost Soil Productivity” through physical mode at Pedhakorumilli village of Rampachodavaram mandal and virtual mode to the farmers and RHWEP Students. Dr. P. Lalitha Kamewari, Principal Scientist and Head, Krishi Vigyan Kendra, Pandirimamidi addressed the importance of soil



conservation practices for sustainable soil health and importance of World Soil Day to the farming community followed by distribution of soil health cards to the farmers. P. Raja Sekhar, Scientist (SS&AC) explained about the soil degradation process and its reclamation measures. Total 62 farmers and 36 RHWEP students have participated in this programme.

On 5<sup>th</sup> December 2021 on the occasion of World Soil Day, Krishi Vigyan Kenrda, Periyavaram organized awareness programme to Students of AP Model School, Venkatagiri. Enlightened students on saline soils and ways to reduce the soil salinity and conducted rally with slogans on the importance of soil and water testing and Bio fertilizers. Dr. P.Manjari, Scientist, Veterinary Science, Ms. K.Sravani, RA (Agri.Extension) Dr.K.MallikarjunaRao, RA (Horticulture) coordinated the programme.



On 05-12-2021 KVK, Venkataramannagudem Conducted world soil day at Jaggannapeta RBK along with Department of Horticulture. In this program farmers and RBK staff enlightened on balance use of fertilizers, usage of Soil health cards and also about bio fertilizers and organic manure. Later soil health cards were distributed to the famers. This program was coordinated

by Sri. G. Shaliraju, Scientist(Ento) and Dr. K. VenkataSubbaiah, Scientist (Horticulture), KVK, Venkataramannagudem.

On 05.12.2021, Dr. V. Nagarjuna, R.A (Soil Science), Dr. Srividya Rani N, Scientist and Head (Extension) Dr.V.Yugandhar, RA, (Horti.) and Dr. S. Lavanya, R.A (Livestock production), KVK, Vonipenta conducted World Soil Day on the theme "Halt Soil Salinization and Boost Soil Productivity" at KVK, Vonipenta. The scientists explained the different soil constraints and their management *i.e*, Saline, Sodic, Acidic and calcareous soils formation and remediation and also distributed soil health cards to the farmers. The scientist conducted a method demonstration on method of soil sample collection at KVK farm. The Coromandal representative, 60 farmers and students have actively participated in this programme.



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

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

Date	Topics
01.12.2021	అరటి ఎగుమతికి పాటించవలసిన మేలైన యాజమాన్య పద్ధతులు డా.రవీంద్ర కుమార్, శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం, కొవ్వూరు
02.12.2021	కొబ్బరిలో అంతర పంటల యాజమాన్యం డా.బి.వి.కె.భగవాన్, ప్రధాన శాస్త్రవేత్త & హెడ్, ఉద్యాన పరిశోధన స్థానం, అంబాజీపేట
03.12.2021	సేంద్రియ పద్ధతిలో కూరగాయలు, పండ్ల పెంపకం డా.కె.రాజేంద్ర ప్రసాద్, శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం, పందిరిమామిడి

Date	Topics
04.12.2021	చేపలు మరియు రొయ్యల పెంపకంలో జీవ భద్రత యొక్క ప్రాముఖ్యత డా.ఎ.దేవివరప్రసాద్ రెడ్డి, శాస్త్రవేత్త, కె.వి.కె, వెంకటరామన్నగూడెం
06.12.2021	చీని, నిమ్మలో పూత, పిందె దశలో యాజమాన్యం డా.ఆర్.నాగరాజు, ప్రధాన శాస్త్రవేత్త & హెడ్, చీని, నిమ్మ పరిశోధన స్థానం, తిరుపతి
07.12.2021	బొప్పాయిలో సమగ్ర సస్యరక్షణ డా.టి.నాగలక్ష్మి, శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం, అనంతరాజుపేట
08.12.2021	డ్రాగన్ ఫ్రూట్ సాగుపై అవగాహన శ్రీమతి బి.విమల, శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం, అనంతపురము
09.12.2021	జీడి మామిడిలో తేయాకు దోమ యాజమాన్యం డా.బి.నాగేంద్ర రెడ్డి, శాస్త్రవేత్త, జీడిమామిడి పరిశోధన స్థానం, బాపట్ల
10.12.2021	ఉద్యాన పంటలలో నులి పురుగుల యాజమాన్య పద్ధతులు డా.సి.ఎస్.కిషోర్ కుమార్, సీనియర్ శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం. కొవ్వూరు
13.12.2021	చీని, నిమ్మలో పూత, పిందె దశలో యాజమాన్యం డా.ఎల్.ముకుందలక్ష్మి, సీనియర్ శాస్త్రవేత్త, చీని, నిమ్మ పరిశోధన స్థానం, తిరుపతి
14.12.2021	మామిడిలో మేలైన యాజమాన్య పద్ధతులు
15.12.2021	ఉల్లిలో చేపట్టవలసిన మేలైన యాజమాన్య పద్ధతులు డా.ఎం. రాగూర్ నాయక్, సీనియర్ శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం, మహానంది

### **"Udyana Vani" programs under Farmers Advisory Cell of Dr YSRHU**

Dr YSRHU-Farmers Advisory Cell organized the following "Udyana Vani" Programs during the first fortnight of December, 2021.

Date	Topics
01.12.2021	డిసెంబర్ మాసంలో తోట పంటలలో చేయవలసిన పనులు; పెరటి తోటల పెంపకం; మిద్దె తోటల పెంపకం
02.12.2021	డిసెంబర్ మాసంలో సుగంధ పంటలలో చేయవలసిన పనులు; ఆయిల్ పామ్ సాగులో మెళకువలు; జామ సాగులో మెళకువలు
03.12.2021	వాతావరణ సూచనలు; డిసెంబర్ మాసంలో సుగంధ ద్రవ్య పంటలలో చేయవలసిన పనులు; పెరటి తోటల పెంపకం; మిద్దె తోటల పెంపకం; తోటకూర, పాలకూర, కొత్తిమీర, మునగ సాగులో మెళకువలు
04.12.2021	వాతావరణ సూచనలు; డిసెంబర్ మాసంలో పూల తోటలలో చేయవలసిన పనులు
06.12.2021	నిమ్మ సాగులో మేలైన యాజమాన్య పద్ధతులు



Date	Topics
07.12.2021	తీగ జాతి కూరగాయల సాగులో మెళకువలు; ఆకుకూరల (తోటకూర, పాలకూర, కొత్తిమీర) సాగులో మెళకువలు
08.12.2021	డిసెంబర్ మాసంలో పండ్ల తోటలనందు చేయవలసిన పనులు; ప్యాషన్ ఫ్రూట్, వాక్యాయ సాగులోన యాజమాన్య పద్ధతులు—సస్యరక్షణ చర్యలు
09.12.2021	డిసెంబర్ మాసంలో తోట పంటలలో చేయవలసిన పనులు; పెరటి తోటల పెంపకం; మిడ్డె తోటల పెంపకం
10.12.2021	వాతావరణ సూచనలు; డిసెంబర్ మాసంలో పూల తోటలలో చేయవలసిన పనులు; ఆకుకూరల (తోటకూర, పాలకూర, కొత్తిమీర) సాగులో మెళకువలు
13.12.2021	నిమ్మ సాగులో మేలైన యాజమాన్య పద్ధతులు
14.12.2021	మిరప సాగులో మెళకువలు
15.12.2021	పండ్లు, కూరగాయల నిల్వలో పాటించవలసిన ప్రాథమిక సూత్రాలు మరియు నిల్వ పద్ధతులు

### Technical support to RBK Channel

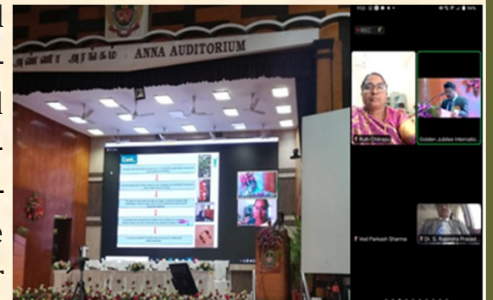
Following Scientists of Dr YSRHU are deputed for recording technical content at Integrated Call Centre, Gannavaram through RBK Channel during the first fortnight of November, 2021.

Date	Topic	Scientist Name
03.12.21	మిరప సాగులో ఎరువులు మరియు చీడపీడల యాజమాన్యం	Dr.C.Sarada, Principal Scientist & Head, HRS, Lam
06.12.21	రబీ ఆకు కూరలలో మేలైన యాజమాన్య పద్ధతులు	Dr.M.Ravindrababu, Sr.Scientist (Hort.), HRS, V.R.Gudem
10.12.21	క్యాబేజీ, క్యాలిఫ్లవర్ సాగులో మెళకువలు మరియు చీడపీడల యాజమాన్యం	Dr.A.Rajani, Sr.Scientist (Hort.), HRS, Lam
13.12.21	పాలిహౌస్ లో జెర్బెర సాగులో మెళకువలు	Dr.T.Suseela, Associate Professor (Horticulture), CoH, V.R.Gudem

### General

#### Meetings

Dr.Ch.Ruth, Professor (Pl.Path.), CoH, Anantharajupeta attended International Conference on “Global Perspectives in Crop Protection for Food Security) GPCP 2021)” - online and gave brief oral presentation under theme: PN01:Emerging and re-emerging diseases of crop plants and nematodes and Theme: CT 01: Integrated Pest and Disease Management organized by TNAU- Centre for Plant Protection Studies, Coimbatore on 8 to 10 December 2021.



On 01.12.2021, Dr. K. VenkataSubbaiah, Scientist (Horticulture), KVK, Venkataramannagudem participated in District Level Technical committee to fix finance for kharif 2022 and Rabi 2022-23 at District Collectorate, Eluru.

Dr. E. KarunaSree Principal Scientist and Head, KVK, Venkataramannagudem participated in the "State Level Consultative committee Meeting of FPOs under the central sector schemes at APIIC Building, Mangalagiri conducted under the chairmanship of Dr. Smt. PoonamMalakondaiah IAS, Special chief Secretary to Government, Andhra Pradesh with State Officials of NABARD and discussed about the status of FPOs implementation in Andhra Pradesh and measures to strengthen them to facilitate quality production, Processing and Marketing of farm produce.

Dr. R.Nagaraju, Principal Scientist (H) & Head, CRS, Tirupati attended Brainstorming session on Crop Planning & Crop Diversification in Andhra Pradesh at RARS, Tirupati on 15 December 2021.



Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, Venkataramannagudem participated in 3<sup>rd</sup> Regional Advisory Group (RAG) meeting for the year 2021-22 on "Integrated Farming Opportunities System as model in Andhra Pradesh opportunities and challenges" organized by NABARD, Andhra Pradesh Regional Office at Visakhapatnam on 02.12.2021. In this presentation given about Fisheries based IFS model.

### Visits

On 15.12.2021, Dr. B. Srinivasulu, Director of Extension, Dr. YSRHU along with scientists of KVK, Pandirimamidi visited Kakavada village of Rampachodavaram mandal and interacted with organic farmers under PKVY project regarding cropping pattern, practices of organic farming, resources etc., of the village. Guidelines and directions were given to KVK, Pandirimamidi for adoption of the village as organic village.



Meanwhile, he observed the poultry birds which were given to farmers earlier under TSP and also observed in-situ soil moisture conservation practices in cashew orchards of PKVY farmers.

As a part of educational tour, students of final year B.Sc. (Hons.) Horticulture, Lovely Professional University, Ludhiana visited the laboratories and instructional farms at College of Horticulture, VR gudem on 8 December 2021. Dr. G. Kranthi Rekha, Assistant Professor (Horticulture) and P. Gangadhar, Teaching Associate (Horticulture) showed the laboratories and instructional farms.



Dr. Sandeep Singh, Scientist (Entomology), AICRP Fruits, Ludhiana centre visited Citrus Resaerch Station, Tirupati on 13 December 2021 and interacted with the scientists and also had discussion on ongoing Entomology AICRP projects with respect to fruit sucking moth in Citrus and slow release Methyl eugenol formulation for fruit flies and also visited dry flower technology training centre.



### **Publications**

Ruth.C, Swarajyalakshmi K., SrinivasuluB. (2021). Occurrence of major pest and diseases of Horticultural crops existing in Rayalaseema Zone and Efficacy of coded compound CHA 2440-01 on Early Blight in Tomato. Book of extended abstracts - International Conference on Global Perspectives in Crop Protection for Food Security. GPCP 2021 Page No.15-16.

Ruth.C, Chinnabbai C, Swarajyalakshmi K, Srinivasulu B. (2021). Development of Integrated Pest Management module for Brinjal shoot and fruit borer. Book of extended abstracts - International Conference on Global Perspectives in Crop Protection for Food Security. GPCP 2021 Page No.541-542.



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