

Vol.VII, Issue-14

Dr YSRHU e-Newsletter

16-31 July 2021



From Vice-Chancellor's Desk Dr.YSRHU GOING GLOBAL

Dr.YSR Horticultural University, 2nd of its kind in the country was established by the Government of Andhra Pradesh on 26th June, 2007. The university is functioning with a mandate to develop human resources through Education, Research and Extension in horticulture and allied sectors through Colleges of Horticulture (4), Horticultural Polytechnics (4), Horticultural Research Stations (19), Krishi Vigyan Kendras (4), affiliated Colleges of Horticulture (4) and affiliated Horticultural Polytechnics (7).

The University is offering four year B.Sc. (Hons.) Horticulture, two year M.Sc.(Horticulture) and three year Ph.D. (Horticulture) with specialization in (i) Fruit Science (ii) Vegetable Science (iii) Plantation, Spices, Medicinal and Aromatic crops (iv) Floriculture and Land Scape Architecture (v) Post-Harvest Technology (vi) Plant Pathology (vii) Entomology besides two year Diploma in Horticulture.

Government of Andhra Pradesh through G.O.Ms.No.48, dt:27.07.2021 has accorded permission to this university for admission into B.Sc (Hons.) (Horticulture) under NRI/NRI sponsored quota with the following guidelines.

- Applicants passed with a minimum of 50% of marks in two years intermediate course (10+2) or equivalent examination under Bi.P.C/ M.Bi.P.C. stream will be eligible.
- The students admitted under NRI quota/sponsored quota are not eligible for any fees reimbursement/education concession offered by Government of Andhra Pradesh/Government of India.
- Candidate should have studied in English Medium at SSC, Intermediate level or English proficiency could be evidenced by producing certificates like IELTS & TOFEL at the time of admission.
- Rule of reservations are not applicable. All NRI seats will be filled on the basis of order of merit.
- The candidates have to pay an Institutional fee of US \$ 3500 per year besides applicable hostel and other fee etc. The candidates have to enroll in Group Health Insurance Scheme (Yuva Raksha) by paying required premium amount.
- The documents (Xerox copies/true copies) to be enclosed along with application. Transcript of marks SSC/ Intermediate/Date of Birth Certificate/TC Proof of NRI status and others.
- Medical Fitness Certificate from Government Hospitals.
- An undertaking by the candidate and the parent.
- An undertaking (on plain paper) by the sponsorer.
- Sponsorer passport and visa
- All original certificates/documents should be produced at the time of joining degree programme.
- 15% seats in University Colleges only.

Dr T.Janakiram Vice-Chancellor

The Events

ICAR Foundation day: Plantation program

On 16 July 2021, ICAR Foundation Day was celebrated at all institutes of Dr.YSRHU with the theme of "Atma Nirbhar Krishi' as part of "Bharat ki Azadi Ka Amrut Mahotsav" and conducted plantation drive.





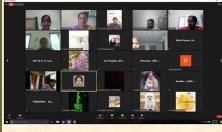
Education

RHWEP Orientation Programme

Orientation programme for the students who registered for Rural Horticultural Work Experience Programme, was conducted through online conference for two days on 24-07-2021 and 26-07-2021. A total of 370 students were benefited by the series of lectures from College of Horticulture, Venkataramannagudem, College of Horticulture, Parvathipu-



ram, N.S. College of Horticultural Sciences, Markapur and Kadiri Baburao College of Horticulture, C.S.Puram, Dr. A.S. Padmavathamma, Dean of Horticulture, and Dr. K. Uma Jyothi, Associate Dean, CoH, Venkataramannagudem coordinated the programme.



Orientation for Rural Horticulture Work Experience Programme, 2021-21 was organized in online mode on 30 July 2021 by officer In-charge for Academic matters (UG), College of Horticulture, Anantharajupeta Dr. G. Sarada, to educate the students about the RHWEP. This orientation was conducted to enlighten the students of four colleges*viz.*, CoH, Anantharajupta, CoH, Chinnalataripi, J.C.

Diwakar Reddy College of Horticulture, Tadipatri and SKDCHS, Anantapuramu. The orientation meeting was started with the introductory speech by Associate Dean, CoH, Anantharajupeta, Dr. B. Srinivasulu and in the technical session, Senior teachers Dr. K. Swrajyalakshmi, Professor (Horticulture), Dr. Ch. Ruth, Professor (Pl. Path.), Dr. M. Ramaiah, Professor (Entomology), Dr. P. SyamSundar Reddy, Dr.M.Rajanaik, Associate Professor (Horticulture), Dr. K. Divya, TA have presented detailed information on all the aspects in crop production, crop protection, rural economics and extension programmes to the students.

Vol.VII, Issue-14

Dr YSRHU e-Newsletter

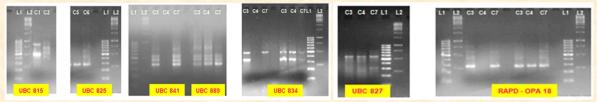
State Level Technical Programme Meeting

14th State Level Technical Programme (SLTP) meetings on Horticulture of Dr.YSRHU was held from 19th - 31st July, 2021 through online under the chairmanship of Dr T.Janakiram, Hon'ble Vice-Chancellor in the presence of Dr.R.V.S.K.Reddy, Director of Research & Univ. Head (Genetics & Plant Breeding). Dr.B.Srinivasulu, Director of Extension & Univ. Head (Plant Pathology), Dr. J. DilipBabu, Director of Industrial & International

Programmes & Univ. Head (Post Harvest Technology), Dr.A.Sujatha, Dean of Student Affairs & Univ. Head (Entomology), Dr.K.Gopal, Registrar and Univ. Head (Plant Physiology, Bio-chemistry & Microbiology), Dr.A.S.Padmavathamma, Dean of Horticulture & Controller of Examinations and Dr.D.Venkata Swami, University Librarian. Reviewed the work done during 2020-21 and finalized the technical programmes for 2021-22 by the university heads of Dr.YSRHU. All the scientists from research stations presented the work done during 2020-21 and the proposed technical programme of work for the year 2021-22.

Notable Research Findings

- IC number for the pre-released turmeric var. LTS-2 was obtained from the National Active Germplasm Site (NAGS), IISR, Calicut
- DNA finger printing for pre- released chilli varieties viz., LCA-616, LCA-657, LCA-680 and LCA -684 in comparison to its closely related varieties LCA-960, LCA-625, LCA-620 and LCA-625 respectively was done at HRS, LAM, Guntur using various markers viz., RAPD and ISSR.



L1: 100bp ladder, L2: 1Kb ladder, C1: LCA-616, C2: LCA-960, C3: LCA-657, C4: LCA-625, C5: LCA-680, C6: LCA-620, C7: LCA-684

Diagnosis of new Disease on Coconut

Team of scientists comprising of Dr. B. Srinivasulu, Director of Extension & University Head, Dept. of Pl.Path., Dr.YSRHU, V.R.Gudem; Dr. B.V.K. Bhagavan, Principal Scientist (Hort.) & Head, HRS, Ambajipeta; Dr. N.B.V. Chalapathi Rao, Principal Scientist (Ent.) HRS, Ambajipeta; Dr. V. Govardhan Rao, Scientist (Pl.Path.) HRS, Ambajipeta and other Department Officers Sri .N. Mallikarjun, ADH, Horticulture, Amalapuram and Sri. A. Amarnath, Horticulture Officer, Kothapeta have conducted field diagnosis of coconut gardens in Billakuduru village, Kothapeta mandal of East Godavari district, where death of coconut palms noticed.

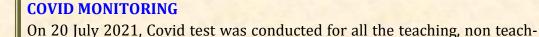
Vol.VII, Issue-14

Dr YSRHU e-Newsletter

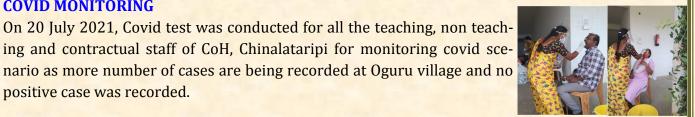
3

16-31 July 2021

Research



positive case was recorded.





The observed field symptoms are necrosis at the base of the petiole, blackening at the base of the petiole (black scorch) resulting the drooping and yellowing of leaves. At the same point rotting of spathe and dropping of nuts also noticed. In severe conditions, when the infection reaches the growth point, the toppling of crown noticed. Besides rotted growth point emitting foul smell. The visual symptoms



are similar to Black scorch disease reported on date palm in Quatar and Arab Emirates (Khalaf.2018; Saeed, 2016).

At HRS, Ambajipeta Initiated studies on etiology. Isolated causal agent and identified as *Ceratocystis* spp. at Agarkar Research Institute, Pune. Established pathogencity. Further studies are in progress.

Extension Activities

Webinars

Dr.YSRHU-Farmers Advisory Cell conducted online state-level webinar on "మిరప సాగులో మెళకువలు" on 16 July 2021 under the

Chairmanship of Dr T.Janakiram, Vice-Chancellor, Dr.YSRHU.



YSR Rythu Bharosa Chaitanya Yatralu

Scientists and Teachers of Dr.YSRHU have participated as resource persons in the programme "YSR Rythu Bharosa Chaitanya Yatralu" at RBKs organized by Department of Horticulture from 16 to 24 July, 2021.



Vol.VII, Issue-14

Dr YSRHU e-Newsletter

Vice-Chancellor to Village Activities

On 26.07.2021, Dr. NBV. Chalapathi Rao, Principal Scientist (Ent.), Shri. A. Kireeti, Research Associate (Hort.) and Dr. G. Koteswara Rao, Research Associate (Hort.) visited adopted village Mamidikuduru as a part of VC to Village programme for 2nd fortnight visit and 'Thota Badi'. Provided technical information on cocoa production technology, pruning, nutrient deficiencies, management of pests and diseases in cocoa and coconut to the farmers.





On 20 July 2021, A team consisting of Dr. K.M. Yuvaraj,Prof. (Hort.), Dr. V.V. Padmaja, Assoc. Prof. (Pl.Physiology), Dr. G. Sarada, Assoc. Prof. (Ento), Dr. Y. Sireesha, Asst. Prof. (Pl.Path.), DR. N. C. Mamatha, TA and Dr.Harivaraprasad, TA have visited the papaya, banana and betelvine crops in Vekatareddipalli village and observed fruit fly infestation and ring spot infection in

papaya, severe infection of sigatoka disease in banana and snail problem in betelvine gardens and suggested suitable remedies to the farmers.

Sri. M.Balakrishna, Asst. Professor, (SS&AC), Dr.Harshitha, T.A (SS&AC) were involved in collecting Soil samples from the fields of four beneficiaries, in adopted village, Venkatareddipalli (Kodur (M) on 28-07-2021 and explained the farmers about the importance of soil properties, soil health and nutrient status in increasing the crop yield.



Dr. K. Divya, TA (Agrl. Economics) and Dr.Kalyani, TA (Agrl. Statistics) conducted village survey on 28 July 2021. Collected information on location, population, transport, economic resources, and marketing opportunities. Discussed with Village secretary, gathered information on facilities available like school, hospital, bank etc. in the format meant for village survey. Also collected the village map.



Dr. K. JyothirmaiMadhavi, Associate Professor (Pl. Path.), Dr. P. Sreelatha Teaching Associate (CPHY), Dr. N. Madhavi, Teaching Associate (Hort.) and G. Lalitha Contractual Teacher (Soil Science), CoH, Chinalataripi visited mango fields of adopted village Oguru for diagnosis of pests and diseases.

A meeting with villagers of Pullalapadu was conducted on 27 July 2021 and explained about the programme, interacted with them to assess their requirements. Further, explained about the HBIC service available at CoH, Venkataramannagudem and requested them to come up with a list of aspiring youth and women who are interested in entrepreneurship. The team com-



prised of Dr.E. Padma, Associate Professor; Dr.C.P.Viji, Associate Professor and Dr.A.Harshavardhan, Assistant Professor. Dr. M. Madhavi, Professor, Departemnt of Fruit Science, CoH, VR Gudem coordinated the programme.

Vol.VII, Issue-14

Dr YSRHU e-Newsletter



Dr.R.Nagaraju, Principal Scientist (Horticulture) & Head, Dr. L. Mukunda Lakshmi, Senior Scientist (Horticulture) and Dr. D. Srinivasa Reddy, Senior Scientist (Entomology), CRS, Tirupati visited adopted village of Adapareddipalli, Durgasamudram post, Tirupati Rural mandal for demonstration of technologies namely installation of fruit fly traps in Papaya and Gavua, fruit bags in Gauva on 20 July 2021.

SSPG Horticulture Polytechnic, Madakasira organized an awareness programme on soil testing and soil sample collection method at the adopted village, Amidala Gondi, Madakasira (Mandal), Ananthapuram (Dist.) on 29 July 2021. Dr. V. Ramana, Principal co-ordinated the programme.





On 24 July 2021, SSPG Horticulture Polytechnic, Madakasira organized diagnostic field visit to Tomato, chilli and Brinjal fields in the adopted village Amidalagondi, Madakasira (Mandal), Ananthapuram (Dist.) as a part of "Vice- Chancellor to Village programme". Dr. V. Ramana, Principal co-ordinated the programme.

Dr. M. Tagore Naik, Senior Scientist (Horticulture) and Dr. K. Anil Kumar, RA (Entomology), HRS, Mahanandi visited Banana and Turmeric fields in adopted village of Gajulapalli, Mahanandi (M) and discussed with farmers about nutritional management on 31 July 2021.





Dr K.Mamatha, Principal Scientist

(Horticulture), HRS, Peddapuram visited cassava fields in Kattamuru on 26 July 2021 and observed severe incidence of CMD and created awareness among the farmers on the availability of resistant varieties with high yield potential.

On 17 July 2021, under 'Vice- chancellor to village programme' Dr. K. Mallikarjunarao, Research Associate (Horticulture) conducted training programme on "Scientific production and management of Okra" for farmers and farm women in adopted village Siddavaram. Explained about seed treatment, improved varieties, fertilizer and water management, weed management, IPM, IDM and



other cultural practices to be followed for getting higher and good quality yield in Okra.



On 29 July 2021, KVK, Periyavaram conducted training programme on "Scientific rearing of backyard poultry" for SC farmers and women farmers at Siddavaram village of Venkatagiri mandal under VC to Village programme. In this programme, the farmers were acknowledged about improved dual purpose backyard poultry breeds and their disease management through timely vaccination, de-

worming and sanitary measures. Dr P.Manjari, Scientist (Veterinary Science) coordinated the programme.

Vol.VII, Issue-14

Dr YSRHU e-Newsletter

On 30 July 2021, KVK, Periyavaram conducted training program on "Promotion of Nutritional Security through homestead Nutrigardens" to the Farmers and Farm women of Siddavaram adopted village under VC to Village Programme. In this programme explained about the establishment and management practices of nutrigardens at household level and were enlightened on the prevalence of aneamia,micronutrient deficiencies and malnutrition in rural areas especially in women, adolescent girls and children. Awareness was created on the Nutrigardens to address the



issue of malnutrition and to promote nutritional security in rural areas. As part of FLD on Demonstration of Nutrigardens for year long availability of fruits and vegetables, distributed vegetable seed kits to the beneficiaries. Dr B.Vijayasree, Research Associate (Home science) and Dr. K. Mallikarjunarao,Research Associate (Horticulture) coordinated the programme.



On 28 July 2021, Dr.Srividya Rani.N, Scientist & Head and technical staff of KVK, Vonipenta visited acid lime orchards for diagnosis of pests and diseases at Ganjikunta village of Mydukur mandal. Observed citrus canker disease and suggested to go for pruning of badly infected twigs followed by spraying of Streptocycline @ 1g + Copper oxy chloride @ 30 g/ 10 lit at 20 days interval.

Dr. K. UmamaheswaraRao, Senior Scientist (Horticulture), CRS, Bapatla visited the adopted village Kavurivaripalem, Chirala Mandal Prakasam District under VC to Village Programme and distributed the minikits of chilli seed varieties LCA- 657, LCA-680 and LCA- 643 developed by Horticultural Research Station, Lam Farm, Guntur on 27 July 2021.



Dr.YSRHU Year of Citrus 2021-22 Activities

CoH, Chinalataripi conducted training programme on "Plant protection of citrus" on 16 July 2021 as a part of Dr.YSRHU Year of Citrus 2021-22. About 26 farmers have participated in the programme.





Dr.L.Ranjith Kumar, scientist (Entomology) CRS, Petlur attended the farmers training programme as a resource person on 31.07.2021 and delivered guest lecture on "Plant Protection in acid lime" organized by M/s.Coromandal International Ltd. at Kammavaripalem village of Dakkili Mandal of SPSR Nellore Dis-

trict.

Dr.P. Vijaya Lakshmi, Associate Professor & Principal I/c and staff of HPT planted Citrus saplings (var.. Balaji) at college premises and adopted village, Devaragunta, Nuzvid mandal along with Grama sarpanch and farmers.



Vol.VII, Issue-14

Dr YSRHU e-Newsletter

8

Dr YSRHU e-Newsletter

Method Demonstrations

KVK, Venkataramannagudem conducted method demonstration on preparation of value added products with acid lime i.e. lemon squash, lemon infused honey, dehydrated lemon, lemon peel powder, lemon pickle and extraction of lemon oil at Processing and Horticulture Skill Training Center on 24 July 2021. Dr. E. Karuna Sree, Principal Scientist & Head and Dr. K. Venkata Subbaiah, Scientist (Horticulture) coordinated the programme.

> Dr. E. KarunaSree Principal Scientist and Head, initiated the functioning of comb foundation mill for production of 44 Kg. of comb foundation sheets to a farmer from Pedavegi village of West Godavari District as a part of IBDC services to the Beekeepers on 22 July 2021.

On 28 July 2021, Dr.Srividya Rani.N, Scientist & Head and technical staff of KVK, Vonipenta conducted method demonstration on seed treatment in Turmeric at Nallapureddypalli village of Mydukur mandal. Scientists conducted method demonstration by dipping seed rhizomes in Metalaxyl @ 3g/l solution for 40min to manage the incidence of rhizome rot disease. They have explained

about the importance, advantages and precautions to be taken while doing seed treatment.

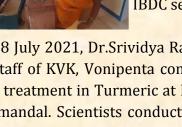
On Farm Trial

Dr. E. KarunaSree Principal Scientist and Head KVK, Venkataramanangudem along with Dr. K. Venkata Subbaiah, Scientist (Horticulture) initiated OFT on "Dehydration of different banana varieties i.e. G9, TellaChekkerakeli, Morthaman and Kovvuru bontha in solar drier" to assess the quality and nutritional parameters on 23 July 2021.

> On 16 & 28 July 2021, scientists of KVK, Pandirimamidi has visited Paddy nurseries as part of OFT on "Assessment of Novel Organic Liquid Fertilizer in Paddy" at I.Polavaram and Ojubanda villages of Rampachodavaram & Gangavaram mandals. During the visits Sri P.Raja Sekhar, Scientist (SS&AC) provided the critical in-

puts to beneficiary farmer and monitored the scheduled spraying of Novel Organic Liquid Fertilizer @0.5% at nursery stage (12 days old) and also spraying of dhrava jeevamrutham and other local organic formulations in control plot under farmers practice.

On 31 July 2021, Dr. P. Laltha Kameswari, Principal Scientist & Head and P Raja Sekhar, Scientist (SS&AC), Krishi Vigyan Kendra, Pandirimamidi distributed soil health cards to tapioca farmers as part of on -farm trial on "Soil Test based Nutrient Management in Tapioca" at KVK, Pandirimamidi and explained about the fertilizer application in right time, right quantity, right source and right place based on soil health card in which detailed information is given.













Training Programmes

Dr.K.Swarajya Lakshmi, Professor (Hort) explained the women beneficiaries of HNV colony, Venkatareddipalli, kodur (M) about "The nutritional value and medicinal properties of moringa" and Value addition of moringa. Preparation of moringa pickle and leaf powder was demonstrated. Dr.Eresh, TA (Agrl Engg.), Sri. S. Khadar Basha and Smt. Lakshmidevi from the Dept. of PHT, CoH, Anantharajupeta assisted in successful conduct of this demonstration in



the adopted village. Village Sarpanch and Survey Assistant helped the college team for arranging this program.



KVK, Venkataramannagudem conducted training programme on "Importance of soil sampling" and demonstrated the soil sample collection on 20 July 2021 to Telikicherla RBK staff and farmers. Dr. V. Deepthi, Scientist (Agri. Extn.) coordinated the programme.

On 16 July 2021, KVK, Vonipenta conducted training programme on "Inter-crop cultivation in Agricultural and Horticultural crops" to the farmers. Explained different crops to be cultivated and also about the importance of intercrops. Smt.Suneetha Runjala, RA (Home Science) conducted training programme on "Awareness on house hold food security by Agri-Nutri farming" to Anganwadi



workers and women farmers. Dr.Srividya Rani.N, Scientist & Head coordinated the programme.



On 28 July 2021, KVK, Vonipenta conducted training programme on "Value addition of acid lime". Scientist explained about the importance of acid lime to boost human immune system. Also explained about preservation methods and given training on preparation of lemon squash and pickle. Demonstrated the method for paneer preparation with milk. Motivated women towards income generation activities like mushroom cultivation, paneer and millet foods making

and marketing. Dr.S.Lavanya explained about disease control in goat. Smt. R. Suneetha, Research Associate (Home Science) and Dr.S.Lavanya, Research Associate (Veterinary) coordinated the programme.

On 19 July 2021, KVK, Pandirimamidi conducted an off-campus training programme on "Azolla cultivation" at RBK, Vootla village of Rampachodavaram mandal. Importance of Azolla as feed for livestock and poultry and the nutritional value of Azolla were explained to the farmers. DD (Veterinary science), Mandal AO and 24 farmers have participated in this programme. B. Sravani, Research Associate (Veterinary Science) coordinated the programme.



KVK, Venkataramannagudem conducted on campus training programme on "Improved Vegetable cultivation" on 20 July 2021 at KVK, Venkataramannagudem and distributed vegetable seed Ridge gourd (Arka Prasanna) and Okra (Arka Nikitha) under OFTs for the year 2021-22. Dr. K. VenkataSubbaiah, Scientist (Horticulture) coordinated the programme.

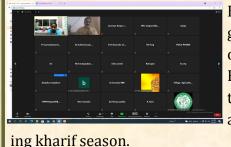
Vol.VII, Issue-14

Dr YSRHU e-Newsletter

KVK, Venkataramanangudem conducted assessment of ASCI 25 days skill training conducted during 2020-21 on 23 July 2021. External assessers from ASCI arrived at KVK and conducted written test and practical examination including viva-voce examination. Dr. A. Devivaraprasad Reddy, Scientist (Fishereis) and Dr. E. KarunaSree Principal Scientist & Head coordinated the programme.



KVK, Venkataramannagudem organized online training programme on Rugose spiraling whitefly management in orchards to Rythu Bharosa Kendra staff of West Godavari District on 24 July 2021. In this programme a total of 25 RBK staff participated and Sri G Shaliraju, scientist (Ento) KVK, Venkataramannagudem participated as resource person. Dr. E. KarunaSree Principal Scientist &Head and Dr. V. Deepthi, Scientist (Agrl. Extn.) coordinated the programme.



KVK, Venkataramannagudem has conducted online training programme to VHAs, VAAs, VAHAs and VFAs of West Godavari District on 29.07.20201 on "Advisories in Agriculture, Horticulture, Animal Husbandry and Fisheries on extreme weather conditions". KVK technical team and DAMU staff explained about the rainfall status and precautionary measures to be taken during excess rainfall dur-

On 31 July 2021, KVK, Venkataramanagudem conducted on campus training programme on "Improved Fodder Cultivation Methods" to farmers and distributed Super Napier fodder slips to farmers under SC Sub Plan and Tribal Sub Plan schemes for the year 2021-22. Dr. A. Devivaraprasad Reddy, Scientist Fisheries and Dr. E. KarunaSree Principal Scientist & Head coordinated the programme.





On 27 July 2021, KVK, Periyavaram conducted off campus training program on "Establishment of Nutrigardens for ensuring nutritional security in rural areas" to the Extension functionaries (Anganwadi teachers and helpers) of Sullurpet, Kudiri and Konduru ICDS Project clusters of SPSR Nellore dis-

trict. In this programme Anganwadi teachers were enlightened on the prevalence of aneamia, micronutrient deficiencies and malnutrition in rural areas especially in women, adolescent girls and children. Awareness was created on the Nutrigardens to address the issue of malnutrition and to promote nutritional security in rural areas. In this programme ICDS-CDPO Sullurprt, Supervisors and ZBNF team have participated. Dr B.Vijayasree, Research Associate (Home science) coordinated the programme.

On 20 July 2021, KVK, Pandirimamidi conducted an off-campus training programme on seasonal management practices in livestock at RBK, Bandapalli village of Rampachodavaram mandal. Management of various livestock like cattle, sheep and goat during different climatic conditions and also vaccination and deworming schedules in livestock were explained to the farmers. A total of 29 farmers



have participated in this programme. B. Sravani, Research Associate (veterinary science) coordinated the programme.

Vol.VII, Issue-14

Dr YSRHU e-Newsletter

On 23 July 2021, KVK, Pandirimamidi conducted off campus training program on Pest and disease management in cashew at Vemulakonda village of Rampachodavara mmandal. Expalined about various pests, nature of damage and management practices for control of pests of cashew as part of the program. VAA, AEO, Rampachodavaram, VHA, Vemulakonda and 32 farmers participated in



the program. Dr.S.Adarsha, Scientist (Entomology) coordinated the programme.



On 29 July 2021, Dr. N. Chiranjeevi, Research Associate (Plant Pathology), KVK, Pandirimamidi conducted training programme on viral disease management in chilli to the tribal farmers from Potlavarigudem village of Kunavaram mandal. A total of 35 farmers, VAAs and VHAs have attended.

KVK, Pandirimamidi organized three days skill development training program on "Value addition in Jackfruit" from 26 to 28 July 2021 under tribal sub plan 2021-22. Technical sessions were conducted on Jack fruit cultivation practices by KVK scientists. Master Trainee given hands on training on preparation of Jack fruit Chips, Mixture, Pakodi, Bajji, Jack fruit biryani, pickle with mature unripe fruits, preparation of

halwa, chocolate, jam, custard, ice cream, juice etc. with ripe fruits. Around 18 value added products of jackfruit were demonstrated and trainees got involved in preparation of these products. At valedictory session, Dr.P.LalithaKameswari, Sr.Scientist & Head, KVK, pandirimamidi invocated the guests and briefed about the training program. Sri Satyanarayana, PHO- ITDA, Rampavhoadavaram addressed the trainees about the importance of processing & value addition in Jack fruit, its potential in agency area and Dr.K.Rajendra Prasad, Senior Scientist and Head, HRS, Pandirimamidi released a technical bulletin on "Agency lo PanasaSaagu" and also distributed the certificates. In this programme, scientists of KVK, Pandirimamidi, and 18 trainees (rural youth-SHG women) from Maredumilli and Rampachodavaram mandals of East Godavari have participated. Sri K.C.Bhanumurthy, Scientist (Horticulture) coordinated the training program.

Frontline Demonstrations

On 16 July 2021, KVK, Pandirimamidi provided Tapioca setts under FLD i.e. Demonstration of Tapioca var. PDPCMR-1 in Tribal area to farmers of Chinnabheerampalli and Pidatamamidi villages of Rampachodavaram and Ganagavaram mandals. Sri Bhanumurthy K.C, Scientist (Horticulture) coordinated the programme.





On 21 July 2021, KVK, Pandirimamidi provided Brinjal var. ArkaHarshita seedlings under FLD i.e. Demonstration of Brinjal var. ArkaHarshita in Tribal area to farmers of I.Polavaram and Rajampalem villages of Rampachodavaram and Ganagavaram mandals. Sri Bhanumurthy K.C, Scientist (Horticulture) coordinated the programme.

Vol.VII, Issue-14

Dr YSRHU e-Newsletter



On 29 July 2021, KVK, Pandirimamidi initiated FLD on viral diseases management in chilli under TSP-2021 by distributing inputs like LCA-625 seed, *Trichoderma* spp. and *Pseudomonas* formulations to the tribal beneficiary farmers from Potlavarigudem and Sabarikothagudem villages of Kunavaram mandal. Also distributed LCA-657 seed



material to the 15 interested beneficiary farmers from Potlavarigudem and Karakagudem villages under TSP-2021. Dr. N. Chiranjeevi, Research Associate (Plant Pathology) coordinated the programme.



On 31 July 2021, Dr. B. Sravani, Research Associate (Veterinary science), KVK, Pandirimamidi conducted an FLD on urea molasses minerl salt licks to goat farmers from Bandapalli and Cheruvu palem villages of Rampachodavaram mandal. The farmers got demonstrated about the nutritional benefits and usage of salt licks as a feed supplement to different categories of livestock.

Diagnostic Visits

On 27 July 2021, Dr.Srividya Rani.N (Scientist and Head) and technical staff of KVK, Vonipenta visited turmeric and onion fields for diagnosis of pests & diseases. Conducted follow up visit to nutrigarden at Machugaripalli village of Mydukur mandal. Observed thrips infestation in Onion and suggested to spray Dimethoate or Fipronil @ 0.2%



for control of thrips in onion and explained about the nutrient, pest and disease management in Turmeric.



On 27 July 2021, Dr. S. Lavanya, Research Associate (Livestock production), Suneetha . R., Research Associate (Home science) and Ms. K. Prasindhu, Research Associate (Plant Pathology), KVK, Vonipenta visited the local varieties of goats at Machugaripalli village of Mydukur mandal. Explained about management practices in livestock production and disease preventive measures for Goat

pox, PPR, Enterotoximea which are prevalent in rainy and winter season.

On 28 July 2021, Dr.Srividya Rani.N, Scientist & Head and technical staff of KVK, Vonipenta visited date palm and onion fields at Lekkallavaripalli village of Mydukur mandal. Observed the Basal rot disease in Onion and suggested soil drenching with Copper Oxy Chloride @ 0.3% against basal rot disease in Onion and explained about nutrient, pest and disease management in Date palm.





On 16 & 17 July 2021, Dr.S.Adarsha, Scientist (Entomology), KVK, Pandirimamidi visited apiary established at Peddageddada village of Rampachodavaram mandal and observed greater wax moth infestation. Suggested management practices for reducing wax moth infestation and also explained the management practices to be carried out in rainy season. Sri.

V.V.K.B.N.Murthy, PD, GVSSS NGO participated in the visit.

Vol.VII, Issue-14

Dr YSRHU e-Newsletter

On 24 July 2021, Shri A. Kireeti, Research Associate (Hort.) and Dr. G. Koteswara Rao Research Associate (Hort.), HRS, Ambajipeta proceeded to Avidi village for field inspection of selected SC farmers under SC Sub Plan-2020-21 for distribution of tissue culture banana plants.



On 27 July 2021, Dr. V. Govardhan Rao, Scientist (Pl.Path), HRS, Ambajipeta carried out fixed plot survey and demonstration of CDB-TMOC Project in coconut gardens at Gudapalli village, Malikipuram mandal East Godavari district.

On 27 July 2021, Dr. D.Devika Rani, Research Associate (Entomology), HRS, Ambajipeta conducted roving survey in farmer's coconut gardens at Gudapalli, Geddada, Kunavaram, Tatipaka and Merakapalem villages, of East Godavari district.



On 29 July 2021, Dr. V. Govardhan Rao, Scientist (Pl.Path), Kum. A. Rachana, Project assistant (CDB-TMOC) and Sri. M.Dileep Kumar, HO, Razole carried out fixed plot survey and to impart training to the farmers and extention functionaries of Department of Horticulture on the mass multiplication and application of Biocontrol agents against coconut diseases in surrounding areas of Malikipuram, Sakhinetipalli and Razole mandals of East Godavari District.



Dr.K.Uma Maheswari, Senior Scientist (H) and Dr.M.Kavitha, Senior Scientist (PP), Citrus Research Station, Petlur on 16 July 2021 Conducted Diagnostic field surveys of acid lime orchards at Vengamambapuram, Subramanyam and Balayapalli villages of Balayapalli mandal Greasy spot severity was high in acid lime gardens of Vengamambapuram village and heavy leaf fall was also noticed in these gardens. In most of the gardens surveyed, observed drying of

branches due to pink disease. Bacterial canker was very severe in acid lime orchards of Balayapalli mandal and observed on leaves, twigs & fruits, Based on the these observations suggestions were given to the farmers. Spraying of Carbendazim @ 1g/lt for Greasy spot and pink disease and for bacterial canker suggested to spray copper oxy chloride (3g/lt)+ streptocycline (2g/10lt). Recommend to spray dimethoate (2ml/lt) where new flush is coming.

Sri.M.Eswar Naik (Entomologist) and Dr.K.Mallikarjun (Horticulturist), HPT, Kalikiri visited Dragon fruit orchard and identified Root Knot Nematode and also visited Guava orchard and identified the same problem and suggested remedial measures.



On 27 July 21, Sri Bhanumurthy K.C, Scientist (Horticulture), KVK, Pandirimamidi

visited young cashew orchard (BPP-8 @ 10 acres) of farmer at Chinnabheerampalli village of Rampachodavaram mandal. Crop is one year old, observed new flush below graft joint, also leaf folder infestation in young leaves and suggested to remove the new flush, use of recommended dose of fertilizers and measures to manage leaf folder.

Vol.VII, Issue-14

Dr YSRHU e-Newsletter

Dr. V. Deepthi, Scientist (Agri. Extn.), KVK, Venkataramannagudem conducted diagnostic visits in paddy fields under OFTs in Venkataramannagudem and Telikicherla villages. Observed zinc deficiency in paddy fields and recommended to spray Zinc Sulphate @ 2 gm/l as foliar spray on 20 July 2021.





Dr. K. Mallikarjunarao, RA (Horticulture), KVK, Periyavaram attended as resource person for YSR RaithuBharosa Chaitanya Yatralu meeting conducted at RBK Somasanigunta village of Venkatagiri Mandal.

On 29 July 2021, Dr P.Manjari, Scientist (Veterinary Science), KVK, Periyavaram visited Sudan grass fodder field at Chintagunta village of Venkatagiri mandal and observed slow growth rate in fodder grass. Explained the cultivation practices of Sudan fodder grass to the farmer and advised the farmer to harvest the grass only after it attains a height of 3 feet to avoid the chances of cyanide poisoning.





On 28.07.2021, Dr.Srividya Rani.N, Scientist & Head and technical staff of KVK, Vonipenta visited marigold field for diagnosis of pests and diseases at Ganjikunta village of Mydukur mandal. Observed the leaf spot disease in marigold and suggested to spray Carbendazim @ 0.1% or Mancozeb @0.2% to manage the disease and observed thrips infestation in bitter gourd and recommended spraying of Dimethoate

@ 0.2%.

On 27.07.2021 and 28.07.2021, Dr.Srividya Rani.N, Scientist & Head and technical staff of KVK, Vonipenta visited sweet orange and acid lime fields for diagnosis of pests, diseases and nutrient deficiency at Nallapureddypalli and G.V Satram villages of Mydukur mandal. Identified Iron and Zinc deficiency in Sweet orange and suggested to spray



zinc sulphate @ 0.5% + ferrous sulphate @ 0.2% twice at ten days interval and explained about inter crop cultivation, INM, pest and disease management in acid lime at initial stage of crop.



On 19 July 2021, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited ginger fields for diagnosis of pests and diseases at kothapalli village of Proddatur mandal. Observed the soft rot disease in ginger and suggested removal of affected clumps followed by drenching the affected and surrounding plants with metalaxyl or mancozeb @

0.5% or copper oxy chloride @ 0.3% to check the spread of the disease. On 20 July 2021, Dr V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited banana fields for diagnosis of pests and diseases at Thippireddipalli village of Mydukur mandal. Scientist observed sigatoka leaf spot and suggested removal of the dried and diseased leaves followed by spraying with Chlorothalonil @ 0.2% or Propiconazole @ 0.1%+ mineral oil @ 1% for control of disease.



Vol.VII, Issue-14

Dr YSRHU e-Newsletter

On 29 July 2021, Dr. N. Chiranjeevi, Research Associate (Plant Pathology), KVK, Pandirimamidi conducted diagnostic visit to chilli nurseries at Sabarikothagudem village of Kunavaram mandal. Scientists observed damping off and recommended proper chemical management practices to the farmers.



On 23 July 2021, Dr. V.Govardhan Rao, Scientist (Pl.Path.) visited the damaged coconut gardens at Billakurru village, Kothapeta mandal of East Godavari district and observations were recorded with regard to the unusual death of coconut plants and its spread.

Phone-in Live Programmes

Dr. R.Nagalakshmi, Senior Scientist (Hort.), HRS, Kovvur attended Phone-in-live programme on "Aratilo varshakalamlo tisukovalasina yajamanyam" at All india Radio, Vijayawada on 19 July 2021.

Dr. M. Tagore Naik, Senior Scientist (Horticulture), HRS, Mahanandi attended Phone-in-live programme on "Kharif ulli saguku anuvyna rakalu mariyu narumadi yajamanyam" at Doordharshan Kendra, Vijayawada on 29 July 2021.

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 July (3-4 PM).

Date	Topics	
16.07.2021	కర్రపెండలం సాగులో మెళకువలు	
1	Dr.M.Janaki, Scientist & Head, HRS, Peddapuram	
17.07.2021	మిరపలో మేలైన యాజమాన్య పద్ధతులు	
	Dr.C.Sarada, Principal Scientist & Head, HRS, Lam	
19.07.2021	చీని, నిమ్మ తోటలలో సూక్ష్మ ధాతు లోపాలు - నివారణ	
-	Dr.M.Kavitha, Senior Scientist, CRS, Petlur	
20.07.2021	ఖరీఫ్లో కూరగాయల సాగు	
1000	Dr.M.Ravindrababu, Senior Scientist, HRS, V.R.Gudem	
22.07.2021	క్యాబేజీ మరియు కాలిఫ్లవర్ సాగులో మెళకువలు	
	Dr.V.Ramana, Principal, SSPG Horticulturalm Polytechnic, Madakasira	
23.07.2021	పుట్టగొడుగుల పెంపకం	
1220	Sri G.Shaliraju, KVK, Venkataramannagudem	
24.07.2021	పసుపు సాగులో మేలైన యాజమాన్య పద్ధతులు	
1507	Dr.V.Siva Kumar, Scientist & Head, HRS, Chintapalle	
26.07.2021	చీని, నిమ్మలో మల్చింగ్ మరియు కలుపు నివారణ చర్యలు	
2.57	Dr.B.Pratap, Senior Scientist, CRS, Petlur	
27.07.2021	బొప్పాయిలో తెగుళ్ళ యాజమాన్యం	
	Dr.T.Nagalakshmi, Scientist, HRS, Anantharajupeta	
Vol.VII, Issue–14 Dr YSRHU <i>e-Newsletter</i> 16-31 July 202		

Date	Topics	
28.07.2021	ఔషధ పంటల సాగు	
	Dr.D.Aparna, Scientist, HRS, Venkataramannagudem	
29.07.2021	బంతి సాగులో మెళకువలు	
100	Dr.P.Lalitha Kameswari, Principal Scientist, KVK, Pandirimamidi	
30.07.2021	టమాట మరియు వంగలో పురుగుల యాజమాన్యం	
1007	Dr.M.G.Bala Hussani, Pricipal Scientist & Head, HRs, Madanapalle	
31.07.2021	కోడి పిల్లల పెంపకంలో పాటించవలసిన మెళకువలు	
2.57	Dr.P.Manjari, Scientist, KVK, Periyavaram	

"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 July, 2021.

Date	Topics		
17.07.2021	జూలై మాసంలో రాష్ <mark>ట్రంలో</mark> ఉద్యాన పంటలనందు చే <mark>పట్టవలసిన</mark> పనులు మరియు సూచనలు		
19.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు; పుట్టగొడుగుల పెంపకం		
20.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు		
22.07.2021			
23.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు; ఖరీఫ్లో ఉద్యాన మరియు వ్యవసాయ పంటలలో పాటించవలసిన మెళకువలు		
24.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు		
26.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు; ద్రాక్ష తోటల సాగులో మెళకువలు		
27.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు; ఖరీఫ్లో ఉద్యాన మరియు వ్యవసాయ పంటలలో పాటించవలసిన మెళకువలు		
28.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు; సీతాఫలం మరియు అల్లనేరేడు సాగులో మెళకువలు		
29.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు; కాలిఫ్లవర్ మరియు క్యాబేజీ సాగులో మెళకువలు		
30.07.2021	జూలై మాసంలో రాష్ట్రంలో ఉద్యాన పంటలనందు చేపట్టవలసిన పనులు మరియు సూచనలు		
Vol.VII, Issue-14Dr YSRHU <i>e-Newsletter</i> 16-31 July 2021			

Date	Topics	
31.07.2021	క్యారెట్, చిక్కుడు, థ్రెంచ్ <mark>చిక్కు</mark> డు 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 July, 2021.

Date	Topic	Scientist Name
16.07.2021	ఆకుకూరల సాగులో యాజమాన్య పద్ధతులు	Dr.C.Sarada, Principal Scientist & Head, HRS, Lam
19.07.2021	బొప్పాయి సాగులో మెళకువలు	Dr.B.Ramesh Babu, Sr.Scientist (Hort.), HRS, V.R.Gudem
22.07.2021	లిల్లీ సాగులో యాజమాన్య పద్ధతులు	Dr.R.Nagalakshmi, Sr.Scientist, HRS, Kovvur
24.07.2021	చిక్కుడు సాగులో మెళకువలు	Dr.M.Ravindrababu, Sr.Scientist (Hort.), HRS, V.R.Gudem
30.07.2021	దుంపజాతి కూరగాయల సాగులో మెళకువలు	Dr.K.Mamatha, Sr.Scientist, HRS, Kovvur

General

Meetings

On 16.07.2021, Scientists of HRS, Ambajipeta participated in Virtual Brainstorming Session on Invasive whitefly complex on plantation crops: Technical knowledge and Technological interventions for management organized by ICAR-Indian Institute of Oil Palm Research, Pedavegi, West Godavari, Andhra Pradesh. Dr.NBV.Chalapathi Rao, Principal Scientist (Entomology) presented a topic on 'Biocontrol based management of rugose spiralling whitefly in plantation crops'. Dr.R.V.S.K.reddy, director of Research and Dr. B.V.K.Bhagavan, Principal Scientist (Horticulture) & Head, participated as panelists.

Dr.R.Nagaraju, Principal Scientist (Hort) & Head, CRS, Tirupati visited Mannasamudram village of Yerpedu mandal, Chittoor district and interacted with farmers on cultivation of Horticultural crops on 27 July 2021.





Dr. E. KarunaSree Principal Scientist and Head and Dr. A. Devivaraprasad Reddy, Scientist (Fisheries) and nodal officer for TSP participated in TSP review workshop for the year 2021-22 and presented the activities conducted for the year 2020-21 and action plan for 2021-22 for approval on 20 July 2021.

Dr.A.Rajani Scientist (Hort) attended International web conference on innovative and current advances in Agriculture and allied Sciences (ICAAAS-2021) organized by Society for scientific development in Agriculture and technology, Meerut (U.P) from 19 to 21 July 2021 through virtual mode.

Vol.VII, Issue-14

Dr YSRHU *e-Newsletter*

Dr.E.KarunaSree, Principal Scientist & Head and Dr. V. Deepthi, Scientist (Agrl. Extn.) and nodal officer for ARYA programme, KVK, Venkataramannagudem participated and presented the ARYA project achievements and action plan in the presence of Dr. B. Srinivasulu, Director of Extension Dr. YSRHU and other DEEs of SAUs during the ARYA zonal review cum action plan workshop conducted by ATARI-Zone X on 30 July 2021.





On 30 July 2021, Dr. E. KarunaSree principal Scientist and Head KVK, Venkataramanangudem has participated in the online training programme jointly organized by MANAGE, Hyderabad and IIHR Bengaluru – 2nd day session on "Strategies for Horticultural Extension" along with Dr. B. Srinivasulu, Director of Extension, Dr. YSR Hortiuclturual university.

Dr. B. Tanuja Priya, Senior Scientist (Hort.), HRS, Dr. YSR Horticultural University, Lam, Guntur had participated and successfully completed on-line training course entitled "Application of Molecular and Bioinformatics Tools in Agriculture and Allied Sciences" organized by CST, UP Centre of Excellence in Agriculture Biotechnology in collaboration with DBT funded Bioinformatics Infrastructure Facility, College of Biotechnology from 7 to 20 July 2021.

Dr.C.Venkata Ramana, Senior Scientist (Horticulture), HRS, Lam participated in District level Agriculture Advisory Board Meeting virtually on 30 July 2021 at Guntur.

Dr. K. UmamaheswaraRao, Senior Scientist (Hort.), CRS, Bapatla and Dr. R. Naga Lakshmi, Senior Scientist (Hort.), HRS, Kovvur attended the Two day National Webinar on " Canopy Architecture Management in Perennial Commercial Horticultural crops" organized by CoH, Bidar, UHS, Bagalkot from 19 to 20 July, 2021.

Dr R Naga Lakshmi and Dr.K.Ravindra Kumar, Senior Scientists (Horticulture), HRS, Kovvur participated in "Azadika Amrut Mahotsav-Value addition: Opportunities and Challenges in Floriculture" organized by ICAR-DFR, Pune on 24 July, 2021.

Dr.K.Ravindra Kumar, Senior Scientist (Hort.), HRS, Kovvur participated in Minds Together "Sysmex Knowledge Congregation 2021- Ploidy Webinar" on 23 July 2021 and interacted with resource persons on possibilities of haploid induction in banana through anther culture.

Dr G.Ramanandam, Principal Scientist (Horticulture) & Head, Dr R Nagalakshmi, Senior Scientist (Horticulture), Dr.K.Ravindra Kumar, Senior Scientist (Horticulture) and Dr A.Snehalatha Rani, Scientist (Pl. Path), HRS, Kovvur participated in a meeting organized by Director of Research to discuss the inter institutional project proposals on banana, sweet orange and coconut on 27th July 2021 along with the research faculty of CSIR.

Visit

Sri.Bhasker Rao, Chairman , Agricultural Marketing Committee, Venkatagiri, SPSR Nellore Dist. visited Citrus Research Station, Petlur and observed the nursery activities on 22 July 2021.



Vol.VII, Issue-14

Dr YSRHU e-Newsletter

Sri. T.Bharat, COO, AP Food Processing Society and Department of Horticulture officials visited HRS, Kovvur on 20 July 2021 and interacted scientific staff on the varietal wealth of banana, average prices, Post harvest losses in banana and raw material availability to the upcoming ready to operate plug & play unit at parliamentary constituency level. Later on they were visited tissue



culture laboratory, hardening unit and fields of banana and appreciated the Scientific staff of HRS, Kovvur.



On 23 July 2021, Sri. P. Koteswara Rao, a mushroom grower and small scale entrepreneur from Dharmavaram village, Kovvur, West Godavari district visited PHTRS, V.R.Gudem Demonstrated about the different packaging methods and use of packaging material and equipments in the bottling of food products. Dr. B.Babu Rao, Research Associate (Horticulture) coordinated the programme.

On 20 July 2021, Dr. R.K. Mathur, Director, IIOPR and scientific staff of IIOPR, Pedavegi visited KVK, Pandirimamidi and observed demonstration units viz., cashew nursery, cashew mini processing unit and Mushroom unit. Dr.S.Adarsha Scientist (Entomology), Sri. P.Rajasekhar Scientist (SS&AC) and Sri. K.C.Bhanumurthy Scientist (Horticulture) coordinated the visit.



Publications

Ravindra Kumar .K., Bhatia R., Singh K.P., Panwar S. (2021) Production of Haploids and Doubled Haploids in Marigold (*Tagetes* spp.) Using Anther Culture. In: Segui-Simarro J.M. (eds) Doubled Haploid Technology. Methods in Molecular Biology, vol 2289. pp: 271-287.

Superannuation

Sri.N.Penchalaiah, Time Scale worker, CRS, Petlur was felicitated by teaching, non-teaching and Time scale workers of Citrus Research Station, Petlur on his superannuation on 31 July 2021.



