



# RASS-Krishi Vigyan Kendra

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## KRISHI e-Newsletter

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### Significant Activities:

RASS - Krishi Vigyan Kendra has conducted a week long residential “Skill Training of Rural Youth on IPM in Crops” for 20 rural youth with the support of ATMA, Chittoor during 04.10.2021 to 10.10.2021. The topics covered during this programme are viz Importance of IPM in pest management, Concept of Polambadi, IPM practice in pulse crops, fruit crops, vegetables and flower crops, Precautions while handling and spraying of pesticides and different types of sprayers, Importance of different plant based products and their role in pest management in different crops, Management of stored grain and household pests, IPM practices in paddy, Rodent, wild bores and monkey menace management, Pesticide residues in different crops and its impact on human health, Integrated Weed Management in major field and horticultural crops, Role of bio fertilizers in pest and disease management, IPM practices in groundnut, Pest management in different crops through bio control methods, Insecticide act, rules and guidelines, symptoms of pesticide poisoning, first aid and their antidotes, Pest and disease management in mulberry and silkworm rearing through IPM practices. Practical demonstrations were organized for trainees on Preparation of neem seed kernel extract, multiplication of Trichoderma viridi, seed treatment using bio fertilizers, preparation of waste decomposer, installation of pheromone traps etc. Sri. C.Mallikarjunaiah, DDA, FTC, Chittoor attended as chief guest for the inaugural programme. An exposure visit also organized for trainees to Regional Agricultural Research Station, Tirupati where created awareness about Production and multiplication of Bio Fertilizers, Farm mechanization, latest farming technologies for cost reduction. Valedictory of the programme was organized on 10.10.2021 for which Smt.S. Dorasani, JDA, Chittoor attended as chief guest. In her address she said that the farmers should adopt latest technologies suggested by the scientists to reduce cost of production as well as getting satisfactory yields. She also suggested that every participant in the training programme should develop as a master trainer and spread the technology learned in their respective villages. Later certificates were distributed to the trainees along with training material.





## Seed Day -2021

RASS – Krishi Vigyan Kendra has participated in 'Seed Mela' organized by Regional Agricultural Research Station, Tirupati on 27.10.2021. KVK has arranged Exhibition stall with the showcase of Latest varieties of Groundnut, Greengram, Blackgram, Paddy, onion, Amaranthus, Moringa and some medicinal plants, Seedlings of Tomato, Chilli, Brinjal, Marigold and medicinal plants. Sri. Muralinath Reddy, Board member, ANGRAU was attended as chief guest of the programme. KVK also supplied Groundnut variety Dheeraj seed to farmers on the hands of chief guest to conduct Cluster Front Line Demonstrations. ADR, RARS, Tirupati, Associate Deans of SV Ag College and College of veterinary sciences, SVVU, DDA, Soil conservation, Chittoor, Head, ARS, Perumallapalli, scientific staff of KVKs, ARS, RARS, officials from line department and farmers were participated in the programme.



## "Diagnostic field visits to Cyclone effected areas"

Scientists of RASS – Krishi Vigyan Kendra accompanied in diagnostic field visits to cyclone effected areas along with the team of RARS scientists, Tirupati and officials of Agricultural Department in the month of November.

The team visited Thottambedu & KVB Puram mandals of Srikalahasthi division on 15th November 2021. The overall observation is that, there is not much damage to the crops in the division due to cyclone as the farmers have not yet taken up sowings / transplantation for the Rabi season. Most of the paddy fields are in preparatory cultivation stage, with some at paddy nurseries stage, and a meager area completed under transplan-tation. Groundnut sowings are yet to be done while blackgram crop which is about 40 days stage is partially affected due to cyclone.

In view of severe weed growth in blackgram, farmers were advised to spray broad spectrum post emergence weedcide Sodium Acifluorfen 16.5% + Clodinafop Propargyl 8% EC (Iris / Patela) @ 400 ml per acre after drying of the field. Farmers were advised to spray Acephate 1.0 g or Chloropyriphos 2.5 ml or quinalphos 2.0 ml or Thiodicarb 1.0 g per lt of water for the control of Flea beetle and caterpillar incidence in Blackgram. In case of severe incidence in later stages, farmers were advised to spray either Novoluron 1.0 ml or Spinosad 0.3 ml or Emamectin benzoate 0.4 g or Chlorantraniliprole 0.3 ml or Flubendiamide @ 0.2 ml/lt water.





In both the mandals, severe incidence of leaf folder was observed in transplanted paddy fields which are about 30-40 DAT and farmers were advised to apply Cartap Hydrochloride 4G granules @ 8 kg/acre. In case if the incidence still persists even after 15-20 days of application of granules, farmers can spray Profenophos @ 2.0 ml or Chlorpyrifos @ 2.5 ml or Monocrotophos 36 SL @ 1.6 ml or Chlorantraniliprole 0.4ml or Cartap hydro chloride 2.0g, Flubendiamide 20WDG 0.25g or 48SC 0.4 ml/lt of water. Farmers who are growing paddy nurseries were advised to apply 1 kg of Carbofuran granules per 5 cents nursery to manage leaf folder and stem borer in the nursery itself.

In OBR Kandriga Village of Pichatur Mandal brinjal fields were severely affected with Ash weevil, shoot and fruit borer and little leaf in brinjal. Farmers were suggested to spray Profenophos @ 2ml along with Neem oil @ 5ml per ltr of water.

In Ramapuram village of Pichatur Mandal, Tuberose crop was identified as severe inundation due to floods and affected with Phyllody, Leaf and Floral bud blight, nematode and sclerotial corm rot diseases. Suggested soil application of 2 kg each of Trichoderma viride and Pseudomonas fluorescence mixed with 100 kg of Neem cake, spraying of Fipronil @ 2ml/lt and Carbendazim @ 2g/litre, drenching of Zineb @ 2g/lt or Fosetyl A @ 1g/lt of water.

### Integrated Crop Demonstrations in Paddy

KVK has supplied NDLR-7 paddy seed to 100 farmers at Mannasamudram village, Yerpedu mandal for conducting demonstrations on ICM in paddy under SCSP (01.11.21) with the support of ICAR – Indian Institute of Rice Research, Hyderabad. Dr.M.Gurumoorthy, Hon'ble MP, Tirupati was the chief guest for the programme. Also supplied 10 battery and 10 power sprayers to farmers under SC Sub Plan of KVK.



### International Agronomy Congress

Senior Scientist and Head participated in “5th International Agronomy Congress” organized by Indian Society of Agronomy at PJTSAU, Hyderabad from 23.11.2021 to 27.11.2021. Displayed Climate resilient technologies, varieties and value added products in Exhibition stall arranged by ATARI, Zone X. on this occasion a DVD on “Impact of climate Resilient Interventions in Chittoor District of Andhra Pradesh under NICRA” prepared by KVK was released by Dr.A.K. Singh, Hon'ble DDG, Agricultural Extension, ICAR, New Delhi and Dr.J.V.Prasad, Director, ATARI, Zone X.





## World Soil Day Celebrations -2021

KVK has Organized "World soil Day-2021" with the theme "Halt soil salanization and enhance the soil Production" at KVK premises on 05.12.2021.

Dr. S. Sreenivasulu, Senior Scientist and Head, Explained about mandate activities and functioning of KVK towards farming community. He also briefed about importance of soil testing, green manure crops, bio fertilizers and soil health management for reduce cost of cultivation thereby achieve good yields.

Sri M. Bhaskaraiah, District Project Manager, APCNF, Chittoor explained about importance of natural farming in production of chemical free food production for human consumption with environmental friendly farming methods. He also explained about the preparation of Ghana Jeevamrutham and Drava Jeevamrutham by method demonstration.



## Live webcasting of Honorable PM's Address on Natural Farming

KVK has conducted live webcasting of Hon'ble Prime Minister's Address on Natural Farming from "Vibrant Gujarat Summit on Agro and Food Processing" held at Gujarat on 16.12.2021. KVK scientists explained about present scenario of farming with agro chemicals and their ill effect on human health as well as environment. Also conducted method demonstration on preparation of Ghana Jeevamrutham and Drava Jeevamrutham to create awareness among farmers. Sri Mallikarjunaiah, DDA,FTC, Chittoor, Smt. Pushpanjali, Smt Sasikala and Smt Sarala, District Resource Centre, KVK Scientists, staff, 22 Agricultural Polytechnic Students, 74 farmers and farm women from different mandals were participated in the programme.





## National Campaigns on Jai Jawan Jai Kisan

KVK has organized National Campaigns on “Jai Kisan Jai Kisan” and ‘Farmers day’ celebrations during 23rd -25th of December, 2021 at KVK and its adopted villages. As a part of this ‘Farmers Day’ celebrations were conducted on 23.12.2021 at KVK and RASS Head office Tirupati, Trainings, FLDs and Kisan Ghoshtis were conducted at adopted villages on 24th and 25th, December, 21

Dr. S. Sreenivasulu, Senior Scientist & Head, KVK, Explained about significance of Jai Jawan and Jai Kisan and farmer’s day. He also explained about important of soil testing, management practices to be followed in sunflower and sesame crops, high yielding varieties, importance of seed treatment, pest and disease control etc. Subject Matter Specialists explained about mushroom Production, nutri garden management, drudgery reduction technologies for farm women, production of vermicompost, use of azolla and importance of different types of medicinal plants in daily human life, precautions to be taken while using farm machinery and also explained about some maintenance tips for fuel-saving during farming practices and management practices to be followed in mango etc. Also briefed about importance of cleanliness and hygiene at home and farm as a part of Swachatha Campaign. Later farmers were facilitated with KBSH-53 and NDSH-1012 sunflower and YLM-66 sesame seed for conducting CFLDs under NFSM.



Sr.Scientist & Head participated in 3rd International Conference on ‘ Global Initiatives in Agricultural, Forestry and Applied Sciences’ at Shri Guru Ram Rai University, Dehradun (17-18 October 21), Uttarakhand jointly organized by Agricultural & Environmental Technology Development Society, Uttarakhand, Shri Guru Ram Rai University, Dehradun, Dept of Agronomy, Sher-e-Bangla Agricultural University, Bangladesh, Soil and Water Conservation Institute, Iran, Dept of Soil Science, University of Cukurova, Turkey, Faculty of Agro based Industry, University Malasia Kelantan, Malaysia, College of Horticulture, Yangtee University, China and Corteva Agri Science and presented paper on ‘Effect of polythene mulching on moisture conservation, weed control, yield and economics of tomato’. He also received “Best KVK Scientist Award” during the conference for outstanding contribution and recognition in the field of agronomy.





KVK has conducted Six “Agriculture workshops on Fuel conservation in agriculture” with the support of Petroleum Conservation Research Association (PCRA), Ministry of petroleum and natural gas, Govt. of India. Created awareness about measures to be taken for Fuel conservation while using farm machinery like irrigation pumps, tractors, weeders, other farm machinery equipments. The programmes were conducted at KVK campus, Vedurukuppam, Yerravaripalem, Chinnagottigallu and Palamaner mandals and covered 211 farmers.

KVK scientists were attended as resource persons for capacity building programmes for Rythu Bharosa Kendra staff at Sri Kalahasthi, Satyavedu, Puttur and Nagari agricultural divisions of the district and trained staff on various aspects like management practices in Pulses, paddy, Sunflower, Ssesame, INM nad IPM in mango and Communication skills.

KVK also conducted Mahila Kisan Diwas on 15.10.2021 at Mannasamudram Village, Yerpedu Mnadal and World Food Day – 16.10.2021 at Chintakalva village, Vadamalapet Mandal and sreated awareness on nutria gardens, value addition, drudgery reduction tools and implements, bio fortified crops etc to women farmers and aslo supplied vegetable kits for promoting nutria gardens.



#### Supply of seedlings by KVK

Saraca asoca	: 20047
Medicinal plants	: 910
Tomato	: 3250
Drumstick	: 80
Marigold	: 3000
Chilli	: 9500
Brinjal	: 3500
Mulberry	: 1700



Number of phone calls received by KVK scientists: 216



KVK has analyzed 311 soil samples and supplied soil health cards to farmers



## Training Programmes

Training prog.	No. of Progs.	No. of Beneficiaries
PF	31	884
RY	5	80
EF	9	327



Details	No. of Programmes	Locations	Area (ha)
OFTs	4	62	8.4
FLDs	3	130	4
CFLDs	3	75	30

## OTHER EXTENSION ACTIVITIES

### Radio talks:

- ▶ Precautions to be taken in agricultural crops during high floods and rains -SMS, Agril. Extension
- ▶ Management practices to be followed in mulberry gardens and silk worm rearing during rainy season- SMS, Sericulture

<b>Field visits</b>	:	16 visits, 124 farmers (Advised farmers on crop production and protection aspects)
<b>Farmers visit to KVK</b>	:	17 visits, 311 farmers visited KVK for seed, seedlings and to know about new technologies in different crops
<b>Method Demonstrations</b>	:	165 famers, 6 demons
<b>Kisan Gosti</b>	:	2 Kisan Gosti, 23 farmers
<b>Field Days</b>	:	4 field days, 77 farmers