



# CTRI News

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CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY-533 105, A.P.

## From the Director's Desk



Cured leaf auctions of FCV tobacco are in progress in Karnataka. As on 31.12.2013, a total quantity of 64.94 million kg has been reported to be marketed at an average price of ₹135.23 per kg. The price offered for bright grade leaf was ₹163.05 per kg.

In Andhra Pradesh, tobacco nurseries were partially damaged by the rains occurred during the last fortnight of October, 2013. Although there was no submergence of seedlings, incidence of leaf blight and damping off was high (20 to 25%) due to excess moisture. Farmers were advised to spray 0.2% Ridomil MZ or 0.2% copper oxy chloride (Blitox / Fytolan). Due to succulence of seedlings, incidence of tobacco caterpillar, *Spodoptera litura* is also high (5 to 10%). Farmers have been advised to spray emamectin benzoate @ 5g/10 l or flubendiamide @ 3ml/10 l.

Growers have reported better establishment, crop stand and vigour in the field with tray nursery seedlings than traditional nurseries.

Tobacco planting in various tobacco growing zones of Andhra Pradesh is delayed due to cyclonic weather during the last fortnight of October and high moisture condition in field. Also about 30% of the total area of planted crop in NLS area has been affected due to heavy rains. Severely affected fields were replanted. Stem and root rot was observed in some fields due to continued submergence. Due to excess moisture in fields, there is the possibility of occurrence of black shank disease in planted crop. Hence, farmers have been advised to apply copper oxy chloride (Blitox / Fytolan) @ 2ml/ l around plant base.

Team of Scientists and Technical Officers visited Tobacco nurseries as well as the planted crop.

During the 2013-14 season, a special emphasis has been made to demonstrate the promising pipeline varieties and new technologies developed for different microzones. Accordingly, on-farm evaluation trials were undertaken in NLS, SBS, SLS and Vinukonda areas with new lines viz., Tobios-2, NLST-4, TBST-2 (FCV) and YB-4 (Burley) in collaboration with Tobacco Board, M/s ITC-ILTD and GPI Ltd. OFTs with new weedicide have been taken up in NLS area in 3 farmer's fields.

(T.G.K. MURTHY)

## RESEARCH HIGHLIGHTS

- Pedestal supra 8.8SC (Novaluron) @ 55 grams a.i. per hectare was found effective against *S. litura* in tobacco nurseries.
- Polar and non-polar compounds were extracted and fractionated by increasing polarity (four fractions) from germplasm accession DWFC which is a caterpillar resistant line for testing insecticidal properties.
- SSR primers, PT50708 and PT50714 were found polymorphic among 11 parents and their hybrids.
- Chlorfluzuron 5.4 EC, a new IGR compound was found effective against *S. litura* in tobacco nursery.
- Implemented On Farm Trials at 14 locations with pipeline varieties viz. TOBIOS - 2 and NLST - 4 (NLS area), TBST - 2 (SBS & SLS areas) with the collaboration of Tobacco Board and Trade.
- Conducted Front Line Demonstration on "Integrated weed management" at 3 locations and on Fertigation through drip at one location in NLS area.

## TRANSFER OF TECHNOLOGY

### PUBLICATIONS

- ❖ Chandrasekhararao, C., K. Siva Raju, H. Ravisankar, M. Anuradha and S. Kasturi Krishna. 2013. Effect of different levels of nitrogen and leaf position on biochemical quality constituents of FCV tobacco (*Nicotiana tabacum*) grown in northern light soils of Andhra Pradesh. **Indian J. Agril. Sci.** 83(10):1-52-7.
- ❖ Murthy, T.G.K. and K. Suman Kalyani. 2013. Techniques in tobacco nursery management (in Telugu). **Swarnasedyam** 16(12):22-4.
- ❖ Ravisankar, H., C. Chandrasekhararao and K. Sivaraju. 2013. Decision support system for soil and water analysis and fertilizer recommendation for flue-cured Virginia (FCV) tobacco. **African J. Agril. Res.** 8(44): 5550-4.
- ❖ Subhashini, D.V. 2013. Isolation of Rhizospheric bacteria and their effect on germination on tobacco seed and growth of seedlings. **Agric. Sci. Digest** 33(2):127-30.
- ❖ Suman Kalyani, K. and T.G.K. Murthy. 2013. Omega-3 oil - A wonderful medicine for heart diseases (in Telugu). **Annadata** 45(10):50-2.
- ❖ Suman Kalyani, K. and T.G.K. Murthy. 2013. Self employment through the preparation of adda leaf plates and cups (in Telugu). **Annadata** 45(12):44-5.
- ❖ Suman Kalyani, K. and T.G.K. Murthy. 2013. Prevention of health problems with balanced diet (in Telugu). **Swarnasedyam** 17(2):20-1.

### BROCHURES

- ❑ 'Cocoa – Cultivation Practices' (in Telugu) compiled by Dr. V.S.G.R. Naidu, J.V.R. Satyavani and Dr. T.G.K. Murthy was released during 'District Level Seminar on Cocoa' held at Annavaram on 22.11.2013.
- ❑ 'Raising Vegetables in Protrays' (in Telugu) compiled by Dr. V.S.G.R. Naidu, J.V.R. Satyavani and Dr. T.G.K. Murthy was released during 'Technology Week' held at KVK from 26-30<sup>th</sup> November, 2013.
- ❑ 'B.t. Cotton Cultivation' (in Telugu) compiled by Dr. V.S.G.R. Naidu, S. Jitendranath and Dr. T.G.K. Murthy was released during 'Technology Week' held at KVK from 26-30<sup>th</sup> November, 2013.

### CONFERENCES/ TRAININGS/ WORKSHOPS ATTENDED

- ❑ Dr. U. Sreedhar, Head, Crop Protection attended the second NKN Annual Workshop at IISCC, Bangalore during 17-19<sup>th</sup> October, 2013.
- ❑ Dr. C.C.S. Rao, Head, Crop Production attended the 2<sup>nd</sup> International Conference on "Agriculture, Food Technologies and Environment – New Approaches" (AFTENA-2013) at Jawaharlal Nehru University, New Delhi during 19 - 20<sup>th</sup> October, 2013.
- ❑ Dr. U. Sreedhar, Head, Crop Protection attended the Review meeting on CPAs Management at Tobacco Board, Guntur on 22.10.2013.
- ❑ Dr. K. Sarala and Dr. S. Kasturi Krishna, Principal Scientists attended the mid-term review meeting of RFD of Crop Science Division at Krishi Bhawan, New Delhi on 29.10.13.
- ❑ Dr. S. Ramakrishnan, Senior Scientist & Head, CTRI RS, Hunsur attended the National Symposium on "Pathogenomics for Diagnosis and Management of Plant Diseases" at CTCRI, Thiruvananthapuram during 24-25<sup>th</sup> October, 2013.
- ❑ Dr. U. Sreedhar, Head, Crop Protection attended the World Agriculture Forum Congress (WAFC), 2013 at Hyderabad during 4-7<sup>th</sup> November, 2013.
- ❑ Dr. D.V. Subhashini, Principal Scientist attended the 54<sup>th</sup> Annual Conference of AMI (AMI-2013) at M.D. University, Rohtak during 17-20<sup>th</sup> November, 2013.
- ❑ Dr. K. Sivaraju and Dr. K. Suman Kalyani, Principal Scientists attended the 21<sup>st</sup> National Children's Science Congress 2013 at Rajahmundry on 28<sup>th</sup> November, 2013.
- ❑ Dr. U. Sreedhar, Head, Crop Protection attended IX Biopesticide International Conference (BIOCICON 2013) at St. Xavier's College, Palaymkottai during 28-30<sup>th</sup> November, 2013.
- ❑ Dr. H. Ravisankar, Senior Scientist and Dr. V.S.G.R. Naidu, Programme Co-ordinator attended the International Conference on 'Extension Education Strategies for Sustainable Agricultural Development at UAS, Bangalore during 5-8<sup>th</sup> December, 2013.

□ Dr. K. Prabhakara Rao, Scientist attended the 21 days ICAR sponsored winter school on "Frontier technologies in the area of biotechnology on gene isolation, characterization and breeding with reference to abiotic stress related genes" at NRC on Plant Biotechnology, New Delhi during 10-30<sup>th</sup> December, 2013.

□ Dr. D. Damodar Reddy, Head, Crop Chemistry & Soil Science attended the 19<sup>th</sup> Meeting of FADC (BIS), New Delhi and TSC meeting at Ministry of Health and Family Welfare on 23.12.2013.

## VISITS

□ During 29-30<sup>th</sup> October, a team of Scientists and Technical Officers visited FCV tobacco nurseries and planted crop affected due to recent incessant rains triggered by active monsoon and depression. Suitable control measures were advocated to the farmers and also disseminated through print media.

□ Dr. K. Nageswara Rao, Head, CTRI RS, Jeelugumilli, Dr. Y. Subbaiah, Principal Scientist, Ag. Extension and Regional Manager, Tobacco Board, Rajahmundry visited the tobacco areas under the jurisdiction of Gopalapuram and Devarapalli auction platform affection with cyclone rains during second fortnight of November on 12.12.2013. They observed the crop condition and advocated contingency measures.

□ Dr. K. Nageswara Rao, Head, CTRI RS, Jeelugumilli, Dr. K. Sarala and Dr. Y. Subbaiah, Principal Scientists visited on-farm trial plots at NLS area on

27<sup>th</sup> November, 2013 and monitored the trial plots.

□ The Project Monitoring and Evaluation Team consisting of Dr. T.G.K. Murthy, Director-Acting, Dr. C.C.S. Rao, Head, Crop Production and Dr. U. Sreedhar, Head, Crop Protection visited the AINP Centre, Nipani to review the research work carried out in the Centre on 10.11.2013.



## RADIO TALKS

### AIR, Visakhapatnam

□ Importance of diet and hygiene during adolescence (in Telugu) by V.V. Lakshmi Kumari, ACTO on 7.11.2013.

□ Management of cashew orchards during flowering and budding (in Telugu) by J.V.R. Satyavani, ACTO on 10.12.2013.

## VISITORS

□ A total of 100 students from APP Mills High School, Rajahmundry visited CTRI, Rajahmundry on 24.10.2013.

□ A total of 48 students from Aditya Degree College for women, Kakinada visited CTRI, Rajahmundry on 11.12.2013.

□ A total of 54 students from Aditya Degree College for women, Kakinada visited CTRI, Rajahmundry on 21.12.2013.

## FELLOW OF SAB

Dr. K. Sarala, Principal Scientist and Dr. K. Prabhakara Rao, Scientist have been conferred with Fellow of Society for Applied Biotechnology (FSAB), Chennai in recognition of the outstanding achievements and contributions to the field of plant biotechnology.

## BEST PAPER AWARD

Dr. H. Ravisankar and Dr. V.S.G.R. Naidu received Best paper presentation Award for the paper entitled "Expert system for dairy cattle management" at the International Conference on Extension Educational Strategies for Sustainable agricultural development - A Global Perspective held at UAS, Bangalore during 5-8th December, 2013.

## PERSONALIA

### RETIREMENT

● Sri M.S.S.R. Sastry, UDC, CTRI, Rajahmundry retired from the Council's service on 31.10.2013.

● Sri J.S. Narahari, Private Secretary, CTRI RS, Hunsur retired from the Council's service on 30.11.2013.

● Smt. Sherfoon, SSS, CTRI RS, Hunsur retired from the Council's service on 30.11.2013.

● Sri Janab Ali Miah, SSS, CTRI RS, Dinahata retired from the Council's service on 30.11.2013.

● Sri M. Appa Rao, ACTO, CTRI, Rajahmundry retired from the Council's service on 31.12.2013.

## KRISHI VIGYAN KENDRA

### Technology week celebrations

Technology week was organised at Krishi Vigyan Kendra with the financial support of ATMA, East Godavari Dist. during 26-30<sup>th</sup> November, 2013 with different themes. A total of 750 farmers/farm women/tribal youth from different mandal participated in the programme. Improved production technologies on various crops were demonstrated to farmers.



### NIFTEM students visit to KVK

Ten students from National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Delhi along with Course Co-ordinator visited KVK, Kalavacharla and conducted Village Adoption Programme as a part of their course work from 22.12.13 to 29.12.13.

### Exposure visit

An exposure visit of forty SC/BC farm women to KVK was arranged by ATMA-East Godavari Dist. on 23-12-13. They were explained/demonstrated about value addition to fruits and vegetables.

### District Level seminar on Cocoa

KVK, CTRI organised 'District Level seminar on Cocoa' sponsored by Directorate of

Cashew nut and Cocoa Development on 22<sup>nd</sup> November 2013 at Annavaram, Shankavaram mandal, East Godavari Dist. Dr. T.G.K. Murthy, Director-Acting, CTRI, Rajahmundry, Dr. V.S.G.R. Naidu, Programme Coordinator, KVK, Sri G. Shiva Kumar, Manager, M/s. Cadbury India Limited and officials from Department of Horticulture, Ruchi Soya Limited,

Palmtech Limited, SMSs of KVK and two hundred farmers participated in the Programme.

### Supply of Vegetable Seedlings to ATMA

1,14,000 hybrid vegetable seedlings of brinjal, chillies and tomato were supplied for 19 demonstration units of ATMA-East Godavari District.

## MEETINGS/VISITS OF DR. T.G.K. MURTHY, DIRECTOR-ACTING, CTRI

- ❖ Visited National Commission for Scheduled Castes on 14.10.2013 and 31.10.2013 to attend the meeting with Shri M. Shivanna, Hon'ble Member, NCSC at New Delhi.
- ❖ Attended World Agriculture Forum Congress (WAFC), 2013 and Agri. Tech. Trade Fair on 5.11.2013 at HICC, Cyberabad Post Office, Hyderabad.
- ❖ Visited to AINRP(T) Centre, Nipani and inspected the projects and on-farm trials along with the Project Monitoring and Evaluation Team of CTRI on 9-10<sup>th</sup> November, 2013.
- ❖ Visited Dr. Y.S.R. Horticultural University, Venkatara-mannagudem, West Godavari District on 16.11.2013 in connection with inaugural meeting of the ICAR funded KVK by the Secretary, DARE & Director-General, ICAR, New Delhi.
- ❖ Attended the Interface Meeting of Line Departments in Agriculture & Allied Sectors, Universities and ICAR Institutes in Andhra Pradesh on 17.11.2013 organized at Agricultural College, ANGRAU, Bapatla.
- ❖ Attended Interactive Workshop on Administrative and Financial matters for the ICAR Institutes located in Southern Region on 09.12.2013 and 10.12.2013 at NAARM, Hyderabad.
- ❖ Attended the Selection Committee Meeting of Scientists under CAS as a Member on 11.12.2013, 18.12.2013 and 19.12.2013 at ASRB, New Delhi.
- ❖ Inspected the CTRI Research Station, Guntur on 13.12.2013 and monitored the Institute and AINRP(T) experiments and farm fields.
- ❖ Attend XII Plan EFC/SFC Meeting for consideration of Plan Schemes of DARE/ICAR on 24.12.2013 at New Delhi.

Edited and Compiled by Dr. K. Sarala and Dr. H. Ravisankar; DTP Type-setting by Md. Elias, Photographs by M.N.P. Kumar

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Ph: 0883-2449871-4, FAX: 0091-0883-2448341; 2410555, E-mail: ctri@sify.com, Website: www.ctri.org.in

Printed at M/s New Image Graphics, Vijayawada 520 002, Phone 9347553274