



CTRI

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# Newsletter

**CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY - 533 105**

## RESEARCH HIGHLIGHTS

- ❑ Five advance breeding lines of FCV tobacco were found superior to the check variety Kanchan in terms of cured and bright grade leaf yield with 4 to 15% increase in cured leaf and 1 to 49% increase in grade out turn.
- ❑ All the six hybrids and advance breeding lines assessed in collaboration with M/s ITC Ltd., ILTD Division recorded 11 to 23% increase in cured leaf yield compared to Kanchan. One advanced breeding line and two hybrids were found superior to Kanchan in respect of bright grade out turn.
- ❑ Vermicompost @ 4 t/ha + recommended dose of NPK improved the cured leaf yield and bright grade out turn by 13 and 15%, respectively over recommended NPK schedule.
- ❑ Oil content in the seed of 76 released varieties was analysed. Highest oil content was recorded in GT-8. Evaluation of 20 species/ species hybrids showed that seed oil content varied from 21.8 % in *N. plumbaginifolia* to 42.9 % in *N. stocktonii*. The other species with high oil content were *N. undulata* (42.3%), *N. hesparis* 40.6%, *N. debnei* (40.2%) and *N. umbratica nesophila* 39.9%.
- ❑ At CTRI Research Station, Jeelugumilli, *Nomuraea rileyi* @  $10^{13}$  spores/ha was found significantly effective in controlling the capsule damage (9.5%) caused by *Helicoverpa armigera* in NLS tobacco and was better than HA NPV  $1.5 \times 10^{12}$  PI B/ha (17.7%).
- ❑ Aqueous leaf extracts (4%) of tobacco, neem, *Pongamia*, *Ipomoea*, *Datura* and *Calotropis* reduced leaf curl incidence from 50 to 60% whereas *Calotropis* and neem were highly effective against *Spodoptera litura* in Burley tobacco.
- ❑ Two rows of border crop (jowar or maize or bajra) prevented aphid infestation from 50 to 60% in tobacco. These border crops along with a spray of Imidacloprid @ 50 g a.i./ha at 50 days after planting completely checked the aphid infestation in TBS.
- ❑ Crude tobacco S NPV @  $1.5 \times 10^{12}$  PIB/ha with or without adjuvants (Robin blue or jaggery) was equally effective in suppression of *S. litura* damage in tobacco when sprayed during evening hours.
- ❑ There was no survival of neonate larvae of *H. armigera* in the diets incorporated with hexane and dichloromethane extracts of *Clerodendron inerme*. The methanol and ethyl acetate fractions of this plant showed minimum inhibition of growth and development.

## NEW CHEWING TOBACCO VARIETIES RELEASED

The Tobacco Variety Release Committee Meeting for Tamil Nadu met at CTRI R.S., Vedasandur on 7.1.2006 and the Chewing tobacco variety 'Abirami' and 'Kaviri' were approved for release for large scale cultivation for Tamil Nadu.



Abirami



Kaviri



Dr. V. Krishnamurthy, Principal Scientist (Soil Chemistry) and Head, Division of Crop Chemistry and Soil Science, CTRI, Rajahmundry assumed the charge as Acting Director, CTRI with effect from 1.2.2006.

## TRANSFER OF TECHNOLOGY

- ❑ Sri M. Sanni Babu, Principal Scientist, Dr. C.C.S. Rao, Sr. Scientist and Dr. P.V. Venugopala Rao, Sr. Scientist participated in the 'Field Day' organized in connection with on-farm trials at Krishnampalem and Vadalakunta in NLS area of West Godavari District on 7.2.2006.
- ❑ Farmers'-Scientists interface was organized at CTRI Research Station, Jeelugumilli on 28.1.2006. On this occasion 150 farmers of NLS area have participated in the group discussions during the meeting.

### EXHIBITION

CTRI has organized an exhibition in connection with PRIDE OF INDIA - SCIENCE EXPO organized on the occasion of 93rd Indian Science Congress at Acharya N.G. Ranga Agricultural University (ANGRAU), Rajendranagar, Hyderabad from 3-7, Jan., 2006.

### FARMERS, TRADERS & MANUFACTURERS MEET

A meeting was conducted with farmers, traders and manufacturers at CTRI Research Station, Veda-sandur on 7-1-2006. More than 150 farmers and traders attended the function and had discussion with the Director, CTRI on various aspects of tobacco production.

### CONFERENCES/TRAININGS/WORKSHOPS

- ❑ Dr. V. Krishnamurthy, Head, Crop Chemistry & Soil Science, Dr. C. A. Raju, Pr. Scientist & Head, Crop Protection, Dr. C. Chandra Sekhara Rao, Sr. Scientist, Dr. (Mrs.) K. Sarala, Sr. Scientist, Sri M. Seshu Madhav, Scientist, Sri H. Ravisankar, Scientist and Dr. (Mrs.) K. Suman Kalyani, Sr. Scientist attended the 93<sup>rd</sup> Indian Science Congress, at ANGRAU, Hyderabad from 3-7<sup>th</sup> Jan., 2006. Dr. V. Krishnamurthy delivered an invited lecture on "Natural Resource Management sustaining tobacco quality, exports and rural prospects" at the 93<sup>rd</sup> Indian Science Congress at ANGRAU, Hyderabad.
- ❑ Sri Md. Bajuddin, Technical Officer attended Training programme on "Statistical Software for Data analysis" at NAARM, Hyderabad from 10-20<sup>th</sup> Jan. 2006.
- ❑ Dr. Y. Subbaiah, Scientist (Sr. Scale) attended "Travel workshop of independent evaluation committee for KVKs of AP & Maharashtra" at Zonal Co-ordination Unit, Hyderabad from 11-12<sup>th</sup> Jan. 2006.
- ❑ Dr. Satyajit Roy, Sr. Scientist attended Eastern Zonal Chapter Meeting of Indian Phytopathological Society and National Seminar on "Current trends in crop disease management for improving productivity" at Regional Research Laboratory, Jorhat from 19-20<sup>th</sup> Jan., 2006.
- ❑ Sri S. Gunneswara Rao, Scientist (Sel. Gr.) and Dr. J.V. Prasad, Sr. Scientist attended International conference on "Biodiversity of insects : challenging issues in Management and conservation" at Coimbatore from 30<sup>th</sup> Jan. - 3<sup>rd</sup> Feb. 2006.
- ❑ Dr. Satyajit Roy, Sr. Scientist attended National symposium on "Emerging plant diseases, their diagnosis and management" at Siliguri from 31<sup>st</sup> Jan. - 2<sup>nd</sup> Feb. 2006.
- ❑ Dr. K. Palanichamy, Pr. Scientist & Head, CTRI RS, Veda-sandur attended National Conference on Agro-Biodiversity, Chennai from 12-15<sup>th</sup> Feb. 2006.
- ❑ Sri H. Ravisankar, Scientist attended 21 days Training Programme in COGNOS organized by M/s SQL Star International Limited, Hyderabad from 17<sup>th</sup> Feb. 2006.
- ❑ Dr. M. M. Shenoi, Pr. Scientist & Head, and Dr. S. Ramakrishnan, Sr. Scientist of CTRI RS, Hunsur attended Training programme on "Mass Production of entomopatho-genic nematodes" at PDBC, Bangalore on 20<sup>th</sup> Feb. 2006
- ❑ Dr. Satyajit Roy, Sr. Scientist attended International Symposium on "Agriculturally Important Microorganisms : Conservation, Utilisation, Bioremediation and Ecological Significance" at Kolkata from 23-25<sup>th</sup> Feb., 2006
- ❑ Sri S. Jitendranath, Technical Officer T-6, KVK attended the Annual Review meeting on "Improved agricultural machinery for major oils seeds and pulses" at CIAE, Bhopal from 3-4 March, 2006.
- ❑ Dr. Y. Subbaiah, Scientist (Sr. Scale) & OIC, KVK, Kalavacherla attended "Orientation programme on NPM to KVK Training Organizers and Training Associates" at KVK, Banaganapalli from 4-5<sup>th</sup> March, 2006
- ❑ Dr. T.G.K.Murthy, Sr. Scientist attended XXXVI Annual Workshop of All India Co-ordinated Research Project on Soybean at Agharkar Research Institute, Pune from 18-20<sup>th</sup> March, 2006
- ❑ Dr. J.V. Prasad, Sr. Scientist attended ZREAC meetings of North Coastal Zone for Kharif 2006 at Agricultural College, Naira, Srikakulam District from 23 - 24<sup>th</sup> March, 2006.

**PUBLICATIONS**

- ❑ Suman Kalyani, K. Food adulteration: A malpractice prevailing in the market. Order-Disorder Journal, Vol.3, No.1, Jan. 2006.
- ❑ Suman Kalyani, K., S.K. Naidu and S. Nageswararao. గ్రామాభ్యుదయంలో రైతు క్లబ్బుల పాత్ర (Role of Farmers Clubs in Village development). Annadata, March, 2006.

**RADIO TALKS**

- ❑ సోయా చిక్కుడులో పోషక విలువలు (Nutritive values of Soybean) by Smt. N. Aruna Kumari, TO T6 on AIR, Visakhapatnam on 2.2.2006.
- ❑ రైతుల ఆర్థికాభివృద్ధిలో కె.వి.కె. పాత్ర (KVKs for economic development of farmers) by Sri S. Jitendranath,

TO T6 on AIR Vijayawada on 6.2.2006.

- ❑ గోదావరి లంకలలో మొక్కజొన్న యాజమాన్య పద్ధతులు (Cultivation of maize in Godavari lankas) by Sri S. Jitendranath, TO T6 on 10.2.2006.

**VIDEO FILM**

CTRI brought out a video film entitled 'A Tale of Central Tobacco Research Institute' having 30 minutes duration for the benefit of all concerned with tobacco production and marketing. The film depicts the activities, achievements and infrastructure facilities available at CTRI, Rajahmundry and its Research Stations at Guntur, Kandukur, Jeelugumilli in Andhra Pradesh, Veda sandur in Tamil Nadu and Hunsur in Karnataka, Dinahata in West Bengal and AINRPT Centres at various places in India.

**ORIENTAL TOBACCO FIELD VISIT**

The team consisting of Dr. V. Krishnamurthy, Acting Director, Dr. C.A. Raju, HOD, Crop Protection, Dr. P. Harishu Kumar, HOD I/c Crop Production, Dr. R.V.S. Rao, HOD I/c Crop Improvement, Sri R. Subba Rao, Principal Scientist and In-Charge, White Burley Tobacco Centre, Sri Y.V. Suryanarayana, Documentation Officer and Sri I.V. Subba Rao, Tech. Officer, CTRI have visited the Oriental tobacco fields in the agency areas of Jeddangi and Rajavommangi in the East Godavari District of A.P. on 22nd March 2006. Oriental tobacco is

being grown in 25 acres in this area during 2005-2006 season. The team observed that the variety cultivated is Izmer. The crop is infected with stem borer, C.M.V. and black shank in some fields. The farmers are advised to use the botanicals and suitable insecticides at the recommended concentrations. Some farmers are growing this crop as intercrop with banana, cashew and palmyrah. The team advised the farmers at Rajavommangi on the use of correct fertilization, plant population, maturity and ripeness, curing process and insect and pest control.



A field crop of Oriental tobacco in agency area

**RETIREMENTS**

- ❑ Dr. K. Deo Singh, Director, CTRI, Rajahmundry retired on superannuation on 31.01.2006.
- ❑ Sri G. Muralikrishna Rao, LDC, CTRI, Rajahmundry retired on superannuation on 31.01.2006.
- ❑ Sri Pushnath Biswas, S.S.Gr.I, CTRI R.S., Dinahata retired on superannuation on 31.1.2006.
- ❑ Sri Rajchandra Biswas, S.S.Gr.I., CTRI R.S. Dinahata retired on superannuation on 31.1.2006.
- ❑ Sri L. Rama Rao, S.S.Gr.IV, CTRI Farm, Katheru retired on superannuation on 31.1.2006.
- ❑ Sri S. Sitaramaiah, Pr. Scientist, CTRI Rajahmundry, retired on superannuation on 28.2.2006.
- ❑ Sri Arjun Paswan, S.S. Gr. IV, CTRI R.S. Dinahata retired on superannuation on 28.2.2006.

**APPOINTMENTS**

- ❑ Sri M. Srinivas appointed as Tech. T-1 on compassionate grounds at CTRI, Rajahmundry on 25.03.2006.

**HUMAN RESOURCE DEVELOPMENT**

- ❑ Smt. K. Padmaja, Tech. T-4, Div. of Crop Chem. & Soil Sci. completed her M.Sc. (Ecology and Environment) from Sikkim Manipal University, Gangtok, Sikkim in Nov., 2005.
- ❑ Mr. G. Satyanarayana Murthy, Tech. T.2, SPO Section completed his M.Sc. (Botany) from Kuvempu University, Karnataka in 2006.

**BIOSAFETY COMMITTEE MEETING**

The Institute Biosafety Committee Meeting of CTRI was held on 21st Jan., 2006 at CTRI, Rajahmundry to discuss the ongoing research on the screening of Bt transgenic and transplastomic lines.

## RETIRED ICAR EMPLOYEES ASSOCIATION REGIONAL MEET

Meeting of the Retired ICAR Employees Association (RICAREA), Rajahmundry Centre was held on 21.1.2006 at CTRI Seminar Hall. Dr. K. Deo Singh, Director, CTRI presided over the function. Sri V.V. Ramana Rao, Secretary screened the video-CD of the function held at Hyderabad on 27.10.2005 in connection with the presentation of

Dr. M.S. Swaminathan Award to Dr. Gendalal Jain, Poultry Geneticist. Three CTRI retired employees S.S.P.S. Krishna Murty, D. Seshagiri Rao and A. Appa Rao were felicitated by Director on the eve of their successful completion of 75 years of age. The function was concluded with vote of thanks by the Secretary.

## KRISHI VIGYAN KENDRA

- ❑ A total of 56 training programmes were conducted in agriculture and allied aspects and a total of 1354 farmers, farm women, rural youth and extension personal were trained.
- ❑ Three training programmes on 'Coir-door mat making' for two months duration were conducted at KVK, Kalavacherla in collaboration with Coir Board and a total of 60 rural girls from Balavaram, Ongole and Jangareddygudem were trained.
- ❑ Three training programmes on 'Banana fibre extraction and its products' for two months duration in collaboration with SINDURA and AICRP, H.Sc., Hyderabad were conducted at Chintalapudi, Jangareddygudem and Fathepur (Hyderabad) and a total of 60 rural girls were trained.
- ❑ A training programme on "Skill upgradation on Garment making" was conducted at KVK for 20 rural girls of Gadarada and

Seetharamapuram villages from 16.1.2006 to 28.2.2006.

- ❑ A training programme on 'Screen Printing over Jute Cloth Products' was conducted at KVK for 20 rural girls of Kalavacherla village from 2.2.2006 to 8.2.2006.
- ❑ Animal fertility/ vaccination camps were conducted in different villages and 260 animals were vaccinated during Feb. and March, 2006.
- ❑ An exhibition was arranged during 93rd National Science Congress at Hyderabad on 3.1.2006 and also at 7th Flower Fruit and Vegetable Show at Yanam on 6.1.2006. KVK activities, products and achievements were displayed for the benefit of all.
- ❑ A Farmers' meet was organised by KVK on 28.1.2006 at KVK, Kalavacherla on FLD Oil Seeds. A total of 232 farmers were participated in the meeting.

## IMPORTANT MEETINGS

ATTENDED BY  
**Dr. V. KRISHNAMURTHY,  
ACTING DIRECTOR, CTRI**

- ❑ Attended the Directors' meeting of the Crop Science Division of ICAR at NASC Complex at New Delhi on 16.01.2006, which was chaired by Dr. G. Kalloo, DDG (Crop Sciences & Horticulture) in which the Institute profile and Crop profile of CTRI, Rajahmundry was presented.
- ❑ Monitored the AINRP(T) experiments being conducted at CTRI Research Station, Jeelugumilli, Guntur and Kandukur from 15-17<sup>th</sup> February, 2006.
- ❑ Attended the Bureau of Indian Standards Meeting on Tobacco and Tobacco Products at Manak Bhavan, New Delhi on 20.02.2006 as Alternate Member which was chaired by Director General Dr. Mangala Rai.
- ❑ Conducted the field SRC at CTRI Research Station, Jeelugumilli on 02.03.2006 and at the Black Soil Farm, Katheru on 03.03.2006.
- ❑ Attended the Tobacco Institute of India (TII) Farmers' Awards Ceremony at FAPCCI Bhavan, Red Hills, Hyderabad on 5th March, 2006.
- ❑ Attended the meeting of Chewing Tobacco Farmers at Veda sandur and inspected the CTRI Research Station, Veda sandur and farmer's fields from 14-16th March, 2006.
- ❑ Attended the Institute Management Committee of NRC for Oilpalm, Pedavegi on 27.03.2006.

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