



# समाचार Newsletter

Vol.17  
No.4  
Oct. - Dec.  
1995

## Central Tobacco Research Institute

### RESEARCH ACTIVITIES

Act. No. -  
Date 20 MAY 1996  
RAJAHMUNDRY-533 105

#### AT RAJAHMUNDRY

□ Soil solarization with white alkathene 100G for 4 to 6 weeks during summer alone or in combination with neem cake @ 200 g/m<sup>2</sup> was found promising in controlling damping off disease of tobacco in seed bed caused by *Pythium aphanidermatum*.

□ Screening of botanicals indicated that water extract of green leaf of *Lantana*, *Glyricidia*, *Azadirachta*, *Polyalthea*, *Cassia*, *Ipomea* and *Parthenium* killed the larva of *Meloidogyne javanica* within 4 hours.

□ Studies on storage molds of tobacco indicated that moisture above 18%, relative humidity of 80% and temperature above 32° C are the most conducive factors for development of molds like *Aspergillus*, *Penicillium*, *Cladosporium* or *Rhizopus* on stored tobacco.

□ Collar rot of tobacco caused by *Sclerotium rolfsii* caused extensive damage to tobacco seedlings in nursery. This disease can be effectively controlled by spraying 0.2% Dithane M-45 mixed with 0.05% Bavistin in 10 litres of water. Two or three sprayings

of the above combination at weekly interval was found promising.

□ Burley tobacco varieties Burley-21 and Banket A1 grown in agency area of East Godavari District were found affected by a strain of Cucumber mosaic virus and Potato virus Y. Both these viruses are aphid transmitted in field. As such periodical spraying of recommended insecticides like monocrotophos and acephate will keep the crop free of these viruses.

□ Bacterial leaf blight disease was found on irrigated Natu and irrigated FCV tobacco in West Godavari district. The disease was on a mild scale. To control this disease it was suggested to spray Streptomycin or Agrimycin or Plantomycin in combination with Bavistin @ 0.1%.

#### AT CTRI RES. STATION, HUNSUR

□ Pure culture of causal pathogen obtained from brown spot affected tobacco crop as well as from 10 different weeds were sent to IARI, New Delhi for the identification up to species level. Pathogen survival studies on host debris, such as stalk, cured tobacco and leaf trash stored both in laboratory as well as buried in soil are in progress.

□ Common weeds in tobacco fields such as *Malvastrum* spp., *Trianthema decandra*, *Crotalaria*

*calcina* etc., are confirmed as the collateral hosts for the pathogen *A. alternata*.

□ Synfume (Aluminium phosphide) which was incorporated in different doses in cultured soil has shown effectiveness in control of root knot compared to check plots.

#### AT CTRI RES. STATION, DINHATA

□ In permanent manurial experiment all N combinations gave higher cured and 1st grade leaf yields over control and other treatments without N. Among N combinations NK, NPK gave more cured and 1st grade leaf yields of 1462 (799) and 1406 (864) kg/ha, respectively when compared to N alone and NP 1129 (484) and 1265 (683) kg/ha. Among FYM levels, FYM 50 tons/ha gave more cured leaf of 1027 kg/ha compared to 25 tons/ha yielding 892 kg/ha and control 786 kg/ha with 1st grade leaf out turn of 344, 160 and 220 kg/ha, respectively.

□ Studies on Motihari tobacco based sequential cropping system under North Bengal conditions revealed that the performance of all intercrops was good. Potato + Garlic system gave C:B ratio of 1:2.38 followed by Maize + Potato 1:1.91 and Mustard + Wheat 1:1.86 than sole crop of tobacco 1:1.12.

## TRANSFER OF TECHNOLOGY

### AT RAJAHMUNDRY

#### Training Programmes

A training programme on Smoke Research and Crop Production Technology was conducted from 11.12.95 to 15.12.95 for Dr.C.C.Lakshmanan and Dr.B.Deb of M/s. I.T.C., Bangalore.

### AT CTRI RES. STATION, KANDUKUR

#### Training Programmes

Sri. A.I. Narayanan, Scientist (SG) and Officer-in-charge and Sri R.Rajendran attended farmers' meeting conducted by Tobacco Board, Ongole on 6.11.95.

Sri. A.I. Narayanan visited tobacco nurseries at Podili, Chinnicattla and Nandavaram and imparted training in Nursery Management on 9.12.95 and 14.12.95 respectively.

### AT CTRI RES. STATION, VEDASANDUR

#### Seed and Seedlings Supply

A total of 586.53 kg tobacco seed and 18,13,500 tobacco seedlings have been supplied by the research station to the farmers.



Dr. M.S.Chari discussing with Sri Boddhu Bhaskara Rama Rao, M.L.A., Peddapuram

### RADIO TALKS

- Latest trends/aspects in tobacco research. By Dr.K. Palanichamy on AIR, Madurai 13.10.95.
- Production Technology for obtaining higher yield of tobacco By K.D.Singh on AIR, Patna 20.10.95.
- వక్త సంబంధిత జీవరసాయనిక పురుగు మందుల ద్వారా పొగాకు పంటలో నష్టరక్షణ. By Sri G. Ramaprasad on AIR, Visakhapatnam 28.10.95.
- దక్షిణపు తేలిక నేలల్లో పొగాకు. By Sri R. Srinivasulu on AIR, Vijayawada 31.10.95.
- నల్లరేగడి నేలల్లో వర్షనియా పొగాకు పొగులో యాజమాన్య పద్ధతులు. By Sri M. Umamaheswara Rao on AIR, Visakhapatnam 23.11.95.
- పొగాకు పైరులో నష్టరక్షణ మెళకువలు. By Sri S. Gunneswara Rao on AIR, Vijayawada 25.12.95.

### CONFERENCES/WORKSHOPS

- Dr. T. Venkateswarlu, Principal Investigator, DBT Project on Biotic Stresses attended the "Task Force Meeting on Biological Control" held at Dept. Biotechnology, New Delhi during November 15-16, 1995 and presented the progress report of the project.
- Sri. V.V. Ramana Rao, Head, Div. of Crop Improvement and Dr.T.Venkateswarlu attended the International Symposium on "Strategies for exploiting Biotechnology potentials" held at Centre for Plant Molecular Biology, Osmania University, Hyderabad during November 28-30, 1995 and presented research paper "Evaluation of Genetically Engineered Tobacco Cultivars against *Spodoptera litura* and *Heliothis armigera*."
- Sri S. Jitendranath attended National training on Spring and Summer Oil Seeds Production Technology at DOR, Hyderabad from 12.12.95 to 19.12.95.
- Principal/Senior Scientists, Technical Officers from different disciplines and other CTRI Research Stations have attended AICRP XV Tobacco Workshop and Silver Jubilee Celebrations at Anand from 22-24 December 1995 and interacted on different experiments concerned with tobacco production.
- Dr. K.D. Singh attended a refresher programme to RAU teachers organised by RAU and delivered a lecture on "Agronomic measures for augmenting the yield of tobacco and tobacco based cropping systems" in Bihar to the participants on 16.12.95.

## PAPERS PUBLISHED

CHARI, M.S. Tobacco: Many value-added by-products. In *The Hindu Survey of Indian Agriculture 1995* pp.87-91.

CHARI, M.S. Quality of Indian FCV tobacco: present status and future requirements. In *1995 Tobacco Symposium: Search for High Quality*. Souvenir Feb 1-3, 1995 Rajahmundry pp.A1-A9.

DOBHAL, V.K. Stability in performance of promising lines of cigar-wraper tobacco (*Nicotiana tabacum*) for North Bengal. *Indian J. Agric.Sci.* 65(6):451-4, 1995.

### M.Sc. Awarded



Sri. S. Jitendranath was awarded M.Sc. (Agricultural Extension) degree from Marathwada Agricultural University, Parbhani, Maharashtra.

### M.Phil. Award under the guidance of Dr. M.S. CHARI

Sri. T. Parankusam, M.Com., Lecturer in Commerce, C.G.T.M. College, Rajahmundry has been awarded M.Phil. degree by Andhra University, Waltair for his thesis entitled "Marketing of flue cured virginia tobacco - A study of marketing infrastructure and operations in Andhra Pradesh", under the guidance of Dr.M.S. Chari, Director CTRI and Dr.K. Rama Mohana Rao, M.Com., Ph.D., Andhra University, Waltair.

## VISITORS

### AT CTRI RES. STATION, PUSA

Dr. N.K. Chaudhary, Programme Director, Dept. of Economics, Patna University, Patna visited the research station along with 25 participants on special programme on Agriculture, sponsored by UGC on 20.12.95.

### AT CTRI RES. STATION, DINHATA

Fifty progressive farmers visited the farm and attended a

group meeting with SBI officials for tobacco crop loan on 22.12.95

### AT CTRI RES. STATION, HUNSUR

Delegates from 16 countries including USA, Brazil, UK, Czechoslovakia, Malaysia, Zimbabwe, Malawi, Argentina visited the station on 11.11.95. The team was led by Sri Amit C.Sarkar, Director, Tobacco Institute of India, New Delhi.



Foreign delegates at CTRI Res. Station, Hunsur

## APPOINTMENT

Sri G. Hemasundara Rao, has been appointed as Tractor Driver at CTRI Res. Station, Dinhata on 18-9-95.

## RETIREMENT

Sri G.S.V. Subrahmanyam, Scientist (SG) retired on superannuation on 31-12-95.

## KRISHI VIGYAN KENDRA

Sl.No.	Name of the Programme	Trainees	Village/District	Duration
<b>Trainings</b>				
1.	Participatory Technology Development	43 Veterinary Asst. Surgeons	From different Villages	30-10-95 to 23-11-95 and 21-12-95
2.	Preservation of fruits and Vegetables	42 Farmers and Rural youth	Jallur and Pallakadlam, E.G.Dist.	9-10-95 to 13-10-95
3.	Fibre decorative articles	15 Rural youth	Nandarada, Jagapathirajupuram and Jallur, E.G.Dist.	20-11-95 onwards (for two months)
4.	Tailoring and Embroidery	42 Rural youth	Pallakadlam, E.G.Dist.	12-9-95 to 12-12-95
5.	Mesta Fibre products	27 Rural youth	Turpugonagudem, E.G. Dist.	26-12-95 onwards (for two months)
<b>First line Demonstrations</b>				
1.	Pulse	20 farmers	East Gonegudem	Oct-Dec'95
2.	Sesamum	20 farmers	East Gonegudem	Oct-Dec'95
3.	Groundnut	20 farmers	G. Yerrampalam	Oct-Dec'95

### अनुसंधान विशिष्टताएँ

#### राजमन्दी :-

- 100 गेज की सफेद एलकाथीन से 4 से 6 सप्ताह तक गर्मियों में भूतपन करने अथवा 200 ग्राम / वर्ग मीटर नीम की श्वली तथा एलकाथीन के साथ भूतपन पीथियम एफेनिडरमेटम द्वारा पौधशाला में पैदा किये जाने वाले पौध गलन रोग की रोकथाम के लिए आशा जनक पाया गया।
- स्कैलोरिटियम रोलफसी के द्वारा पैदा किये गये स्तम्भ मूडू संधि विगलन रोग द्वारा पौधशाला में तम्बाकू पौधों को सर्वाधिक क्षति हुई।
- पूर्व गोदावरी जिले के एजैन्सी क्षेत्र में उगायी जाने वाली बर्ली तम्बाकू की किस्म बर्ली-21 तथा बैकेट

ए०-1 कुकुम्बर मोजैक वायरस तथा पोटेटो वायरस वाई से ग्रसित पायी गयी।

#### सी. टी. आर. आई., अनुसंधान केन्द्र, दिनहाटा:-

- उत्तरी बंगाल में तम्बाकू पर आधारित एक के बाद एक फसल प्रणाली में किये गये आध्यपन के अनुसार सभी सह फसलों की दक्षता अच्छी पायी गयी।

#### मोद्यो गिंकी का हस्तांतरण

#### राजमन्दी :-

#### प्रशिक्षण कार्यक्रम :-

- आई. टी. सी.। आई. एल. टी. डी. बैंगलोर के डा. सी. सी. लक्ष्मणन् और डा. बी. देव के लिए धुवाँ अनुसंधान तथा फसल उत्पादन पर

दिनांक 11.12.95 से 15.12.95 तक एक प्राशिक्षण कार्यक्रम आयोजित किया गया।

- उपरोक्त अवधि में कृषि विज्ञान केन्द्र में 5 प्रशिक्षण कार्यक्रम तथा 3 प्रथम लाइन प्रदर्शन आयोजित किये गये।

#### अन्य गतिविधियाँ

- श्री. एस. जितेन्द्र नाथ, तकनीकी अधिकारी को मराठवाडा कृषि विश्व विद्यालय से एम. एस. सी. (कृषि प्रसार) की उपाधि प्रदान की गयी।
- संस्थान के वैज्ञानिकों। अधिकारियों द्वारा विभिन्न पत्रिकाओं में तीन पेपर प्रकाशित किये गये।
- वैज्ञानिकों द्वारा 6 वार्ताएँ आकाशवाणी से प्रसारित की गयी।