



# समाचार Newsletter



## CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY

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### RESEARCH HIGHLIGHTS

#### CTRI, RAJAHMUNDRY

Root-knot nematode cultures can be developed in poly bags or milk bags in place of earthen pots. The developing root-knot galls are visible through the transparent poly films. The bags are also useful for conducting experiments on root-knot nematode on tobacco. The plants grew well in these bags under hessian cloth shade in the open. Orobanchae seeds also germinated well in these bags in the presence of host plant, tobacco and as such the bags are also useful for conducting studies on this phanerogamic plant parasite too.

#### CTRI RESEARCH STATION, HUNSUR

- \* Identified another species of *Pythium* viz. *Pythium myriotylum* causing damping-off in tobacco nurseries in Hunsur track with the collaboration of University of Mysore.
- \* Tobacco C.v. Kuaka 860 (ET 1280) was found tolerant against pre-emergence damping-off caused by *P. aphanidermatum* while it was susceptible to *P. myriotylum* which is more aggressive and virulent in pathogenicity compared to *P. aphanidermatum*.
- \* Brown spot in bidi tobacco was significantly controlled by Captofol 0.6-0.8% sprayed thrice.

#### CTRI RESEARCH STATION, VEDASANDUR

- \* In the pre-release bulk trial of advance chewing tobacco selections grown in different farmer's fields, Line HV 80-4 exhibited better growth over the other line HV 81-3 and the control variety Bhagyalakshmi.
- \* In the mutation bulk trial, mutant line HV 86-2 performed well in most of the centres than HV 86-5 and control variety Bhagyalakshmi.
- \* In the trial intended for Vedaranyam tract, selections F6-1-4, F6-1-7 and F6-1-11 showed better promise for yield and preferred by farmers.

#### CTRI RESEARCH STATION, KANDUKUR

- \* Ridge base sowing improved the grain yield by 29% in case of greengram (cv.ML-267) and 18% in case of bajra (cv.WCC-75) over that of existing common flat bed sowing system owing to better rain water conservation and utilization in tobacco based crop production system in red loam soil (rainfed) of SLS. Result is in conformity with the previous year's (1988-89) result.
- \* Trials with maize, ground nut, soybean, bengalgram, greengram, blackgram and mustard to find out suitable alternative to FCV tobacco on red loam soils indicated the feasibility and superiority of mustard and greengram over other crops. Mustard, a high

value oil seed crop grew well without exhibiting any moisture stress symptoms. Bengalgram, groundnut and soybean need further observation about the feasibility and economic viability for growing as

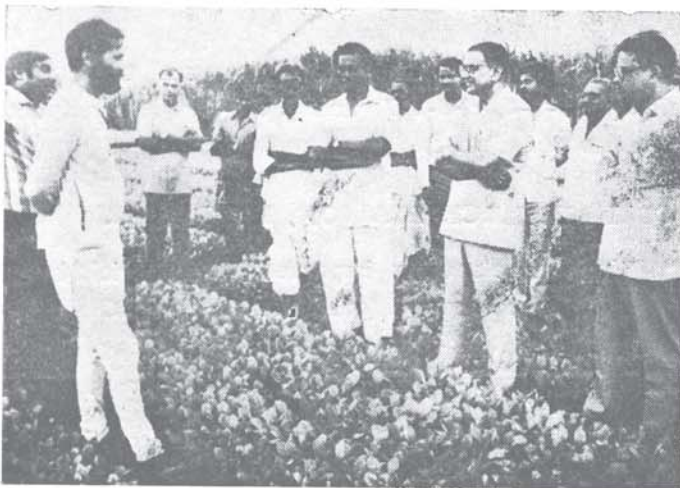
alternate crops in the area. Rabi maize (GS-5) suffered severely due to moisture stress and formation was very poor, hence not suitable as rabi crop in this area.

## TRANSFER OF TECHNOLOGY

### FIELD VISITS

A Team of four scientists consisting Dr. K. Nagarajan, Sri K. Appa Rao, Sri G. Ramaprasad and Sri M Sannibabu visited the tobacco nurseries raised with Variety McNair-12 in the blackshank endemic villages viz. Mysanagudem and Yagavaram of West Godavari district on 4th Oct. 1989 to assess the damage and to recommend the control measures to the farmers.

Director and a team of scientists from CTRI visited the tobacco nurseries of "Result demonstration on NPV" at Dommeru village of West Godavari Dt on 30th Nov. 1989.



Nursery Visit at Dommeru.

### FARMER'S MEET

A team of scientists and officials from CTRI and ILTD Res. Dept. ITC participated in the farmers meet

conducted at Devarapalli, Gopalapuram, Chinnayyagudem, Koyyalagudem and Jangareddygudem on 12-13 Oct. 1989.

A farmers meet was conducted at Dommeru village on Nov. 89 and about 200 farmers participated in it.



Dr. M. S. Chari, Director at farmer's day Celebrations at Dommeru.

Dr. M. S. Chari, Director gave a lecture on "Future and Prospects of Burley Tobacco in Agency area" in a meeting arranged by Corporation Bank at Mallavaram, East Godavari Dt, on 27th Nov. 1989.

A team of scientists of this Institute participated in tobacco farmer's meet arranged by Syndicate Bank Branch, Makkinavarigudem, West Godavari District on 22nd Dec. 89.

Director and several scientists of CTRI participated in farmers meet on tobacco, arranged by Bank of Baroda at Katheru Village on 28th Dec, 89.

### FIELD DAY

A field day on "Alternate crops for tobacco in rabi" season for black soils was conducted at CTRI farm, Katheru on 12 Dec. 1989. Farmers from several villages visited the alternate crops.



Demonstration of Soybean and mustard (Kranti)-an alternate crop for tobacco in black soils.

### RADIO & TV

\* New achievements of CTRI Research Station, Veda sandur was broadcasted by AIR, Madras on 18th and 19th Nov. 1989.

\* Sri S. Sitaramaiah, Scientist (SG) gave a radio talk on "Virginia Pogaku Sedyamulo Sasyarakshana and broadcasted by AIR, Visakhapatnam on 30-11-1989.

\* A profile of CTRI Res. Station, Veda sandur was broadcasted by AIR Madurai on 5-11-89 and by all AIR Stations in Tamilnadu on 9-12-89.

\* Tobacco programme recorded at CTRI Res. Station, Veda sandur was broadcasted by AIR, Madurai on 28-11-89, 1-12-89, 5-12-89, 7-12-89 and 14-12-89.

### INSTITUTIONAL SEMINARS

Dr. Lytton J. Musselman, Professor and curator of the Herbarium, Dept. of Biological Science, Old Dominion University, Norfolk, Virginia gave a talk on "Orobanche in Crop plants" on 26th Oct. 1989.

### CONFERENCES/SYMPOSIUM/SEMINARS/WORK SHOPS/TRAINING COURSES

Dr. M. S. Chari, Director; Dr. R. Sinha, Dr. D. V. Subba Rao, Dr. K. V. Satyanarayana, Sri T. Sitarama- chari, Sri K. Appa Rao, Sri G. Rama Prasad, Sri G. V. G Krishna Murty, Sri T. S. N. Reddy, Dr. N. Krishnananda, Sri K. S. N. Murty, Sri R. Subba Rao, Sri M. Uma- maheswara Rao, Dr. K. D. Singh, Dr. S. Veerabhadra Rao, Sri J. S. L. Moses, Dr. S. S. Hussaini, Sri K. Devappa, Sri K. N. Subrahmanya and Sri M. Someswara Rao have attended XII AICRP (T) Workshop at Gujarat Agricultural University, Anand Campus, Anand from 19-12-89 to 21-12-89. A high yielding chewing tobacco var. H.P. 76-1 (Ganga) with an yield of 2633 Kg/ha developed by the scientists of CTRI Res. Station, Pusa has been thoroughly discussed in the workshop for release and approved for sending it to the Central Sub Committee on crop Standards Notification and Release of Varieties.

Sri Y. V. Suryanarayana, Documentation Officer has attended Workshop on 'Information Technology and Agricultural Information Network at NAARM, Hyderabad, from Dec. 4-8, 1989 and presented a paper on "Development of data base on personal computer at CTRI" by Messers Y. V. Suryanarayana and N. Syam Prasad.

### VISITORS

#### CTRI, RAJAHMUNDRY

- Sri G. P. Gwoner, Desk Officer (Tobacco), Ministry of Commerce, New Delhi and Sri N. Badarinara- yana, Personal Officer, Tobacco Board, Guntur on 4-11-89.

#### CTRI RESEARCH STATION, HUNSUR

- Sri Reddiappa, Executive Director, Tobacco Board, Guntur on 18-12-89.

**CTRI RESEARCH STATION, VEDASANDUR****PAPERS PUBLISHED**

- Sri G. Y. D. Ponnayya of M/s ILTD/ ITC Ltd., Calcutta on 12-12-89.
- Dr. Arul Mozhi, IAS, Additional Collector of Dindigul-Q-M-District on 12-12-89.
- CTRI RESEARCH STATION, KANDUKUR**
- Dr. M. S. Soundararajan, Associate Director of Research, Regional Agricultural Research Station, A. P. A. U., Tirupathi (A.P.) on 11-10-1989.
- Mr. Michael, a student of Town and Regional Planning Technical University, Berlin, West Germany on 13-12-89.
1. DOBHAL, VK Diallel analysis for nicotine content and leaf thickness in hookah and chewing tobacco (*N.rustica* L.). *Indian J. Genet.* 49 (2) : 145-9, 1989.
  2. NAGARAJAN, K and T. S. N. REDDY Anthracnose disease on tobacco. *Indian Farmer's Digest* 22 (11) 19-20, 1989.
  3. RAMJILAL Malnutritional diseases of tobacco and their management. *Farmer & Parliament* 24 (12) 11-12, 1989.
  4. SINGH, BL, and S. N. TRIPATHI Relative efficacy of motihari tobacco (*N. rustica* L.). *Pesticides* 21 (10) : 31-3, 1987.

**APPOINTMENTS :**

No.	Name	Grade	Place of Duty	Date of Appointment
1.	Sri Podi Musalayya	S.S. Gr. I	CTRI, Rajahmundry	27-10-1989
2.	Smt. Dara Pathemma	"	"	30-10-1989
3.	Smt. S. K. Sather Beebi	"	"	30-10-1989
4.	Sri P. Arjunudu	"	"	30-10-1989
5.	Smt. Motha Satyavathi	"	"	30-10-1989
6.	Sri. S. V. Rama Rao	"	"	30-10-1989
7.	Smt. Magarapu Ganga	"	"	30-10-1989
8.	Smt. Kasse Bhulakshmi	"	"	30-10-1989
9.	Sri. C. Umashankara	T-II-3	CTRI Res. Stn., Guntur	15-11-1989

**RETIREMENTS :**

No.	Name	Designation	Place	Retirement Reason	Date
1.	Sri R. Seshagiri Rao	S. S. Gr. IV	CTRI, Rajahmundry	Voluntarily	1-10-89
2.	Sri Narendranath Roy	S. S. Gr. III	CTRI Res. Stn., Dinahata	Superannuation	31-12-89
3.	Sri S. Arulsamy	Tech. T-4	CTRI Res. Stn., Veda sandur.	Superannuation	31-12-89

**DEPUTATION :** Dr. B. V. Ramakrishnaya, Principal Scientist, CTRI, Rajahmundry went on deputation to Tobacco Board, Guntur as Director (Technical) for a period of two years w. e. f. 23-11-89.

## KRISHI VIGYANA KENDRA

### TRAINING PROGRAMMES

Sixty seven training programmes were conducted under Crop Production, Animal Science Production, Horticulture, Home Science and Rural Crafts covering 803 farmers and 899 farm women from the villages adopted by the KVK.

#### Long Duration Programmes

1. Three weeks training programme to 14 Rural youth sponsored by voluntary organisation CASA was conducted from 20-10-89 to 10-11-89 on "Coir extraction and its finished products."
2. Two weeks training programme to 40 women from A.P.P. Mills Ladies Club was conducted from 27-11-89 to 9-12-89 on extraction of "Mesta fibre and its finished products and fruit preservation."
3. One week training programme to 80 women of A.P.P. Mills Ladies Club and ONGC Ladies Club were conducted from 1-11-89 to 7-11-89 and 27-11-89 to 2-12-89 respectively.
4. Tribal awareness programme to 200 Tribal farmers and farm women of village "Mettuchinta" in collaboration with Union Bank of India, Prathipadu and Paderu was conducted on 26-10-89.
5. One week orientation programme on KVK activities was conducted to 30 CASA Community Volunteers from 1-12-89 to 6-12-89.
6. "Women in Agriculture Day" was celebrated at Seetharampuram village on 4-12-89 and about 100 farm women have participated in the training programme.
7. One week training programme to 19 farmers on the improved package of practices on Rabi Pulses and oil seeds and one week training programme to 17 farmers on the vegetative propagation methods of Horticultural crops were conducted at Seetharampuram, from 13-12-89 to 20-12-89 and 21-12-89 to 29-12-89 respectively on the eve of Jawaharlal Nehru Centenary Celebrations.



Trainee with Programme Organisers.

## संक्षिप्त समाचार

### अनुसंधान उपलब्धियाँ

तम्बाकू के रूट नाट नेमाटोड संबंधन प्रयोगों में मिट्टी पात्रों को जगह पोलेथिन थैलियाँ या दूध की थैलियाँ उपयोग में लाई जा सकती हैं।

कर्नाटक के हुसूर क्षेत्र के तम्बाकू नर्सरी में मैसूर विश्व विद्यालय के सहयोग से तम्बाकू के पौद-गलन (डेम्पिंग आफ़) कारो पैथियम मिरियोटिलम नामक एक नई फंफूद जाति की पहचान की गयी है।

पी. अपिनिडेरमाटम द्वारा उत्पन्न होनेवाली पौदगलन की पहली दशा में तम्बाकू सी. वी. कौका 860 (ई. टी. 1280) किस्म सहिष्णु पायी गयी।

बीडी तम्बाकू के भूरा धब्बा (ब्राउन स्पॉट) नियंत्रण ब केप्टोफोल 0.6 से 0.8% घोल का तीन बार छिडकाव महत्वपूर्ण सिद्ध हुआ।

तमिलनाडु के वेदारण्यम क्षेत्र में किये गये परीक्षण में एफ़. 6-1-4 एफ़. 6-1-7 और एफ़. 6-1-11 किस्में अच्छी उपज के लिए उचित पायी गयी और कृषकों ने भी पसन्द किया।

प्रकाशम जिले के कन्दुकूर क्षेत्र की लाल द्रुमट मिट्टी में वर्जीनिया तम्बाकू के स्थान पर सरसों और मूंग फसलें उचित विकल्प पाये गये।

### तकनीकी प्रसार

चार वैज्ञानिकों के एक दल ने, काली मिट्टी वाले विशेष क्षेत्र के गावों में मकनायर 12 तम्बाकू नर्सरियों को हुई क्षति का मूल्यांकन किया एवं कृषकों को उसके बचाव का सुझाव दिया।

दिनांक 30 नवम्बर 1989 को दोम्मेरु गांव में एक किसान मेला का आयोजन किया गया जिसमें 200 कृषकों ने भाग लिया।

12-12-1989 को सी. टी. आर. आई. फार्म, कातेरु में काली मिट्टी में रबी मौसम में तम्बाकू की वैकल्पिक फसलों पर आधारित एक क्षेत्र दिवस का आयोजन किया गया जिसमें विभिन्न गावों के किसानों ने भाग लिया एवं वैकल्पिक फसलों की जानकारी प्राप्त की।

19-12-1989 से 21-12-1989 के दौरान गुजरात कृषि विश्व विद्यालय, आनंद केम्पस, आनंद में आयोजित अखिल भारतीय तम्बाकू अनुसंधान समन्वय परियोजना के बारहवीं कर्मशाला में निदेशक एवं वैज्ञानिकों ने भाग लिया। सी. टी. आर. आई. अनुसंधान केन्द्र पूसा के वैज्ञानिकों द्वारा विकसित अधिक पैदावर (2633 कि. ग्रा. प्रति हेक्टेयर) वाली खेनी तम्बाकू की नयी किस्म एच. पी. 76-1 (गंगा) के विमोचन की चर्चा की गयी।

### कृषि विज्ञान केन्द्र

कृषि विज्ञान केन्द्र, राजमन्दी द्वारा चुने गये गांवों के 808 ग्रामीण कृषकों और 899 कृषक महिलाओं के लिए सस्य विज्ञान उत्पादन, पशु विज्ञान उत्पादन बागवानी, गृह विज्ञान और ग्राम्य दस्तकारी के 67 प्रशिक्षण कार्यक्रम आयोजित किये गये।

मोस्ता रेशों से रंग बिरंगों वस्तुएं बनाने और फलों का संरक्षण पर 40 महिलाओं के लिए दो सप्ताह का प्रशिक्षण कार्यक्रम आयोजित किया गया।

मेट्टुचिन्ता गांव के 200 जनजातीय कृषकों और क्षेत्रीय महिलाओं के लिए जनजातीय जानकारी प्रशिक्षण कार्यक्रम दिनांक 20-10-1989 को आयोजित किया गया।

दिनांक 4-12-1989 को सीतारांपुरम गांव में कृषि महिला दिवस का आयोजन किया गया जिसमें लगभग 100 महिलाओं ने भाग लिया।