



समाचार Newsletter

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CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY

RESEARCH HIGHLIGHTS

CTRI, RAJAHMUNDRY

- Imidacloprid, Acephate and Demeton-S methyl 2ml/l were highly effective in controlling the aphids.
- Four cultivars viz., Kokubu, Kutsaga 51E, PMR Burley-21 and TB-22 showed resistance to black shank under artificial inoculation in the field.
- Three selections viz., Coker-316,319 and Sel-1117 were also observed to be resistant to black shank under artificial inoculation in the field.
- Resistance of L-1158 against TMV was confirmed under field conditions.
- Toxigenic isolate of *Trichoderma* sp. grew well on potato dextrose broth at pH ranges of 4,5,6,7, and 8. However, there was gradual increase in the dry weight of the mycelial growth, as the pH of the medium increased from 4 to 8. Surprisingly maximum inhibition of *Phythium aphanidermatum* resulted from culture filtrate of the isolate grown at pH 6.0 for 4 to 6 days.
- Burley varieties Ky-14 and Banket A₁ fared well in respect of yield and quality in the light soil areas of Telangana as observed in the exploratory trials conducted in that region during 1990-91 in collaboration with M/S VST Industries.

CTRI RESEARCH STATION, HUNSUR

- In varietal trial experiment, Bhavya and FCV-6248 recorded higher yields and grade index over FCH-1071. Advance breeding lines F6-3 (FCH-145) and F6-7 (FCH-149) were comparatively superior in yield over Bhavya and FCH-6248.
- Cured leaf extract of *Datura fastuosa* tested *in vitro* was found effective against three fungal pathogens.

CTRI RESEARCH STATION, GUNTUR

- Among seven White Burley varieties tested in Warangal District BG-2, BG-3 and BG-6 fared at par with standard variety Burley-21.
- The performance of *Natu* selection 409 was found to be far superior to the local variety WAF in Kurnool and Mahaboobnagar districts.
- The *Natu* germplasm raised in Linganvai village in Mahaboobnagar district have been screened for selecting the most suitable ones comparable to the standard variety WAF.
- The new selections introduced i.e., NG 60, NG 62 and NG 64 have performed better than local control WAF in fertiliser-cum-varietal trial.

CTRI RESEARCH STATION, PUSA

- Performance of line B-21-3 (Bandi type) was found to be superior to the existing variety Bandi local in Vaishali district.

CTRI RESEARCH STATION, KANDUKUR

- ACR and BGT selections grown at the farm showed very low incidence of aphids and caterpillars compared to susceptible variety Jayasri.

CTRI RESEARCH STATION, VEDASANDUR

- NPV spraying in seed crop was found to have good control over *Heliothis* caterpillar attack and demonstrated to tobacco farmers in collaboration with Tamilnadu Agricultural University, Coimbatore.
- Advanced breeding lines HV 85-4 and HV 85-5 of Cigar filler tobacco uniformly performed well over the control varieties KV-1 and Krishna.

- Mutant lines HV 86-2 and HV 86-5 performed well over the control variety Bhagyalakshmi in all the pre-released bulk trials.

- Azospirillum, a biofertilizer in combination with nitrogenous fertiliser (60 and 80kg N/ha) had complementary effect on the yield of tobacco.

OTHER ACTIVITIES

ICAR INTER ZONAL SPORTS MEET

Sri S. Ramakrishna, Technician T-1, CTRI Research Station, Kandukur bagged the second prize in

pole-vault event in Zone finals organised at Bhopal on 18-1-91, **Congratulations.**

TRANSFER OF TECHNOLOGY

FARMERS DAY

Farmers day was organised by CTRI, in collaboration with Bank of Baroda, Katheru Branch at Katheru farm on tobacco and tobacco based cropping systems on 10-1-91. Dr. M.S. Chari, presided over the function. Sri P.P. Rao, Regional Manager, Bank of Baroda welcomed the farmers.

Sri. Edala Bhaskara Rao, a progressive farmer of Katheru village was felicitated. Scientists of CTRI clarified the queries raised by farmers. Sri R.Subba Rao proposed vote of thanks. On this occasion, an exhibition was also arranged by the Institute and KVK.



Dr. M.S. Chari, Director,CTRI and Seshagiri Rao , R.M. Tob. Board



Dr. M.S. Chari, explaining the pipeline varieties to the farmers



Dr. M.S. Chari, with Progressive farmers

Other organisations including M/s. Godavari Fertilisers, M/s. Coromandal Fertilisers, M/s. Andhra Pradesh Agro-Industries, and M/s. Sri Rama Corporation also installed exhibition stalls for the benefit of farmers. About 500 farmers participated in the function and visited tobacco varieties developed and mustard crop, an alternative to tobacco for the black soil, and appreciated the efforts made by CTRI.

FIELD AND FARMERS DAY

Tobacco field days were organised by CTRI Research Station, Pusa, at Vaishali district, Baghauni, Samastipur district and Mahisaur, Vaishali district on 5-2-91, 8-2-91 and 11-2-91 respectively. Farmers day was celebrated on 14-2-91. Dr. G. Trivedi, Director of Extension Education, R.A.U. Pusa and Governing Body member of ICAR was the chief guest. Latest tobacco production technologies and marketing constraints were highlighted to the farmers by Dr. K. D. Singh, Officer-in-charge of the station. Krishak Gosthi was presided over by Dr. T.P. Singh, Dean, R.A.U. Pusa. Various tobacco problems regarding production, plant protection and marketing were discussed and the doubts raised by the farmers were clarified. M/s. Prabhat Zarda Factory, Mazufarpur also actively participated in the programme.

EXHIBITION

CTRI Research Station, Pusa presented the research achievements in the exhibitions at **Kisan Mela** organised by R.A.U. Pusa at Tiruhut College of Agriculture, Dholi, Muzaffarpur and Regional Research Station, Madhopur West Champaran district on 22nd to 24th February, 1991 and 14th to 15th March, 1991, respectively. CTRI stall was adjudged the best and secured 1st prize at Dholi. The exhibition at Madhopur was inaugurated by Sri. Ramjeevan Singh, Hon'ble. Minister for Agric., Govt. of Bihar, and the stall was appreciated by all and secured an award.

GROUP DISCUSSIONS

A group discussion was organised at Katavaram on 29-1-1991. About 50 farmers participated in the

discussion and they went round the varietal trial plot and mustard on farm trial plot along with Scientists. Tobacco Board Officials also participated in the group discussions.

FIELD VISITS

Sri G. Ramprasad, Scientist (SG), HOD and T.S.N. Reddy Scientist (SG) Division of Plant Protection visited *lanka* tobacco fields of Pottilanka, Kottapeta and Atreyapuram areas in East Godavari District. About 15% incidence of leaf spot diseases and 10-15% incidence of leaf curl and mosaic were observed. It was also reported that severe incidence of root bug *Stibaropus tabulatus* F. occurred in early stage of the crop. Application of Endosulfan 35% E.C. at 0.05% con. in planting hole recommended by the Institute helped the farmers in controlling root bug at Vaddiparru village.

TRAINING PROGRAMMES

Management trainees from M/S. Godfrey Phillips India Limited, Guntur received training in the cultivation of tobacco, curing and grading for a period of three days.

RADIO TALKS

1. పాగాకు పై వచ్చు కీటకాలు - వాటి నివారణ. (Pests of tobacco and their control) by Sri. S. Sitaramaiah, on AIR, Vijayawada, 4-1-1991.
2. వర్షానియా పాగాకు తోటలపై సస్యరక్షణ - పురుగులు వాటి నివారణ. (Pest control management in VFC tobacco fields) by Sri. G. Ramprasad, on AIR, Visakhapatnam, 5-1-1991.
3. పాడి గేదెలలో గాలి కుంటు వ్యాధి నివారణ. (Control of foot and mouth of cattle disease) by Dr. B. John Babu, on AIR, Vijayawada 7-1-1991.
4. గ్రామీణ వనరులతో శిశు సంక్షేమం. (Child welfare with rural resources) by Smt. V.V. Laxmi Kumari, on AIR, Vijayawada, 10-1-1991.
5. పాగాకు రెలుపు, క్యూరింగు, గ్రేడింగులలో తీసుకొనవలసిన మెళకువలు. (Precautions required during harvesting, curing and grading of tobacco) by Dr. B.V. Kameswara Rao, on AIR, Vijayawada, 18-1-1991.
6. तंबाकू की देखबाल (Care of tobacco crop) by Sri S. Amarnath, on AIR, Darbhanga, 18-1-1991.

7. Cropping sequence and intercropping in tobacco by Dr. C.V. Raghavaiah, on AIR, Madurai, 1-2-1991.
8. పాగాకు క్యూరింగులో సాధక బాధకాలు. (Problems in tobacco curing) by Sri. K. S. N. Murty, on AIR, Vijayawada, 11-2-1991.
9. Income generating activities for the women in their leisure time by Sri M. Sanni Babu, on AIR, Visakhapatnam, 15-2-1991.
10. Harvesting, curing and storage of chewing tobacco by Dr. K. D. Singh on AIR, Darbhanga, 16-2-1991.
11. నాణ్యమైన పాగాకు అధిక దిగుబడులకు తల త్వంచుట, జిడ్డు నివారణలో మెళకువలు. (Advantages of topping and sucker control for improvement of yield and quality of tobacco) by Sri S.K.Naidu, on AIR, Visakhapatnam, 22-2-1991.
12. Irrigation, weed management and post harvesting technology by Sri. A.C. Rajasekharan and Sri N. Subbaiah on AIR, Madurai, 26-2-1991 and 5-3-1991 respectively.
13. పాగాకు తర్వాత వేసవిలో యాజమాన్య పద్ధతులు. (Management practices during summer in tobacco soils) by Dr. P. Harishu Kumar, on AIR, Vijayawada, 30-3-1991.

INVITED LECTURES

Sri G. Ramprasad, Scientist (SG) and HOD, Plant Protection gave an invited lecture to Post Graduate Diploma Students on "Insect pest management in tobacco" at Central Plant Protection Training Institute, Hyderabad on 25th March, 1991.

CONFERENCES/SYMPOSIA/SEMINARS/WORKSHOPS/TRAINING COURSES

- Dr. T. Venkateswarlu, Scientist (SG) participated in the training programme "Plant genetic engineering techniques" conducted by Biotechnology Centre, IARI, New Delhi, from February 20th to March 11, 1991.
- Officer-in-Charge and scientists of CTRI Research Station, Kandukur participated in seminars organised by Tobacco Board, FACT, SBI and explained the recent research findings on the improvement of yield and quality of FCV tobacco.

Sri M. Sanni Babu, Training organiser attended training programme on "Management of extension for farming system approach to agriculture development" organised by National Centre for Management of Agricultural Extension, Hyderabad from 4th to 9th March, 1991.

VISITORS

CTRI, RAJAHMUNDRY

- 13.3.91. Sri.P.Ramakantha Reddy, IAS, Chairman Tobacco Board, Guntur.

CTRI RESEARCH STATION, PUSA

- 14-2-91. Dr. G. Trivedi, Director, Extension Education, RAU, Pusa and Member, ICAR Governing Body.
- 26-2-91. Sri Dilip Kumar Rai, Hon'ble Member of Legislative Assembly, Bihar.

CTRI RESEARCH STATION, KANDUKUR

- February, '91 Sri A. R. Sukumar, Joint Collector, Prakasam district.

PAPERS PUBLISHED

1. AMARNATH, S. Genetic divergence in chewing tobacco. **Tob. Res.** 16(1): 25-8, 1990.
2. CHARI, M.S. Research key to India's leaf future **World Tob.** 120:33-7, 1991.
3. KRISHNAMURTY, V., S. N. TRIPATHI and S. K. DHAR. Phosphorus fertility of tobacco soils of North Bengal and its influence on yield and quality of tobacco. **Environment & Ecology** 8(2): 741-6, 1990.
4. KRISHNANANDA, N., S. V. V. SATYA NARAYANA and R. V. S. RAO. Variation in different types of tobacco for infestation capsule borer, *Heliothis armigera* HB. **Tob. Res.** 16(1) : 67-8, 1990.
5. MONGA, D. Laboratory evaluation of fungicide against *Alternaria alternata* (Fries) Keissler causing brown spot of Motihari tobacco. **Tob. Res.** 16(1) : 61-4, 1990.
6. PRASANNASIMHA RAO, G. S. B., ILYAS AHMED and G.S.V. SUBRAHMANYAM. Heterosis and combining ability in FCV tobacco (*Nicotiana tabacum* L). **Tob. Res.** 16 (1):9-14, 1990.

7. SRIVASTAVA, R. P and A. S. BHASKAR. Dry matter accumulation and nutrient uptake by chewing tobacco (*Nicotiana tabacum* L.) at different stages of growth in calcareous soils of Bihar. **Tob.Res.** 16(1):19-23, 1990.
8. SUBHASHINI, U and T.VENKATESWARLU. Maintenance of mammoth Bidi tobacco. **Tob.Res.** 16(1): 37-9, 1990.

RETIREMENTS

S.No.	Name	Designation	Place	Reason	Date
1.	Sri B. Veerraju	S.S.Gr.III	Rajahmundry	Superannuation	28-2-91
2.	Sri P. Sundara Rao	S.S.Gr.I	Rajahmundry	Voluntary	1-3-91

KRISHI VIGYAN KENDRA

TRAINING PROGRAMMES

• Nine on campus training programmes were conducted and 155 farmers participated. Thirty seven off campus training programmes at Sitarampuram, Singavaram and Punyakshetram were conducted and 831 farmers participated.

- Oilseed production programmes (OPP) were conducted in an area of 25ha of groundnut, 10ha of sesamum and one ha of mustard at Singavaram, Chendredu, Kalavacherla and Thorredu villages.
- Group discussions and field visits were made in the adopted villages during the visit of Sri N.K. Sanghvi, Zonal Co-ordinator.

संक्षिप्त समाचार

अनुसंधान उपलब्धिया

- एफिड संख्या के नियन्त्रण के लिए इमिडाक्लोपरिड असिफेट और डीमेटोन एस मिथाइल 2 मि० ली० प्रति लीटर की दर से बहुत अधिक प्रभावी थे ।
- क्षेत्र में कृत्रिम संवर्धन के अंतर्गत कोकुबु कूटसागा , 51 ई पी एम आर बर्ली तथा टी. बी-22 किस्में ब्लाक शेक प्रतिरोधी पायी गयी ।
- क्षेत्र की परिस्थिति में एल 1158 किस्म टी. एम. वी प्रतिरोधी पायी गयी।
- तेलंगाना क्षेत्र की हल्का मिट्टी वाले क्षेत्रों में बर्ली किस्म के वाई-14 तथा बेनकेट ए-1 उपज तथा गुणवत्ता अच्छी साबित हुई ।
- विटो में परीक्षित धातुरा फस्टुआसा तीन कवक रोगजनकों के विरुद्ध प्रभावी सिद्ध हुआ ।
- कर्नूल तथा महबूबनगर जिलों में नाटु किस्म 409, स्थानिक किस्म डब्ल्यू . ए. एफ. से अधिक उत्तम पायी गयी ।
- बीज के फसल में एन. पी. वी. का कथिडकाव हेलिपोथिस और इल्ली को अक्रमण को नियन्त्रित करने में अच्छा पाया गया ।
- दिनांक 10-1-91 को बैंक आफ बडोदा के सहयोग से केन्द्रीय तम्बाकू अनुसंधानालय क्षेत्र, कातेरु में तम्बाकू और तम्बाकू पर आधारित फसलचक्र के सम्बन्ध में कृषण दिवस का आयोजन किया गया ।
- केन्द्रीय तम्बाकू अनुसंधानालय अनुसंस्थान केन्द्र, पूसा द्वारा वैशाली के महिसोर, समस्तीपूर तिले में दिनांक 5-2-91, 8-2-91, तथा 11-2-91, को कृषक दिवसों का आयोजन किया गया ।
- मैसेर्स गाडर्फे फिल्य इण्डिया लिमिटेड के प्रबंध प्रशिक्षणार्थियों ने गुण्टूर में तम्बाकू खेती, क्यूरिंग तथा वर्गीकरण के बारे में तीन दिवसीय प्रशिक्षण प्राप्त किया ।
- कृषि विज्ञान परिवार में नीं प्रशिक्षणों का आयोजना किया गया ।
- सीतारामपुरम, सिंगावरम, पुण्यक्षेत्रम में 30 बाह्य पीरसर प्रशिक्षण कार्य कम के अन्तर्गत 10 हेक्टेयर मूंगफली, 10 हेक्टेयर में तिल और 1 हेक्टेयर में सरसों बोयी गयी ।

Edited & Compiled by Y.V. Suryanarayana & M. Ramam. Hindi Version by Ch. Srirama Rao.

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