



# CTRI News Letter

CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY-5 (A.P.)

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## MAJOR EVENTS

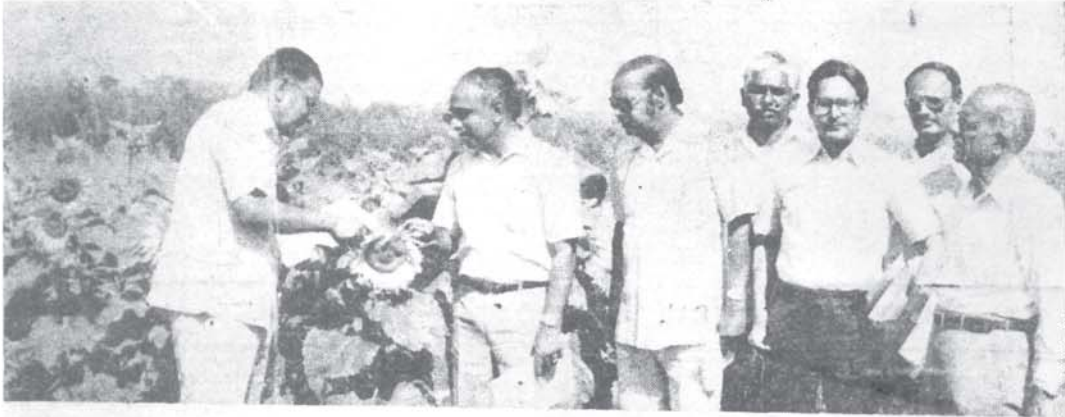


Dr. M. S. Chari, Director, CTRI, discussing with the Hon'ble Minister of State for Petroleum and Natural gas Sri Brahmadutt on the 'use of natural gas in curing the FCV tobacco' during the latter's visit to Rajahmundry. On the extreme left is Sri G. Butchaiah Chowdary, M. L. A., Rajahmundry and Vice-Chairman, A.P. State Planning Board.

Dr. T. D. Prasada Rao, General Manager, ITC Limited, ILTD Division and Chairman, Quinquennial Review Team alongwith the Members Dr. H. G. Singh, Dean (Agril.), Chandrasekhar Azad University of Agriculture and Technology, Kanpur; Dr. G. P. Channa Basavanna, Emeritus Professor, Department of Entomology, University of Agricultural Sciences, Bangalore; Dr. A. N. Mukhopadhyay, Professor & Head (Plant Pathology), College of Agriculture, G. B. Pant Univer-

sity of Agriculture and Technology, Pantnagar and Member Secretary; Dr. O. P. Dubey, Scientist S<sub>2</sub> (Entomology), I. C. A. R., New Delhi visited various disciplines of CTRI, Rajahmundry during 6-10th February, 1988. The team held discussions with the Scientists on the research work carried out during 1982-86 period and reviewed the progress of work. The team accompanied by the Director, visited farmers' fields and held discussion with the progressive farmers.

Q. R. T. accompanied by the Director, Tobacco Research visited the experimental plots at CTRI Farm, Katheru.



The QRT accompanied by the Director, Tobacco Research visited CTRI Research Stations, Pusa and Din-hata on 16-19th November, 1987; Vedesandur on 20-1-88; Guntur and Kandukur on 12-13th February, 1988 and held discussions with the Scientists and reviewed the Research Projects.

A special project on the "Bio-ecological studies and critical evaluation of reasons for resurgence of whitefly in Andhra Pradesh" was sanctioned by the ICAR, with CTRI Research Station Kandukur as the Main Centre for indepth studies on the pest for a period of three years. The project will be implemented under the technical guidance and administrative control of the Director. The main objectives of the project are to study (i) the bio-ecology (ii) reasons for resurgence of the pest (iii) inter-relationship between whitefly and the incidence of leaf curl on tobacco and (iv) effective management of the pest on tobacco.

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## RESEARCH HIGHLIGHTS

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*Nicotiana tabacum* Var "Yarda" from Philippines and Var. "Wainea" from Newzealand reported to be resistant/tolerant to damping off disease, were retested under pot and microplot tests to Indian strain of *Pythium aphanidermatum* causing damping off. Both the varieties are susceptible.

Swabbing young orobanche shoots with mineral oils like Diesel, Kerosene and thinner oils have quick knock down effect and 100% control of the parasite. However, these oils were phytotoxic.

Application of other plant oils like linseed, neem, gingelly, cotton seed and groundnut oils also were found promising in killing young tender orobanche shoots.

Lines CM6, CM10, CM14, PM2 and PM4 (Mc Nair-12 source) were found resistant to black shank while L. 1129, L. 1131, L. 1132, L. 1133, and L. 1136 were resistant to both black shank and mosaic diseases,

Under mutation breeding programme, out of 5 selections assessed with their parents Bhagyalakshmi and I-61, all selections were superior to their parents by yielding more than 4,000 kg/ha.

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### From the Visitor's book :

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" Glad to visit farm, CTRI Research Station, Guntur. It is well maintained. The scientists of the centre deserve all appreciation for the emphasis they are laying on tobacco and tobacco based systems and their management. The mustard trial is one of the best we had in the district.

CTRI Research Station,  
GUNTUR,  
Date : 24-1-1988,

Sd/.Dr. V, Ranga Rao,  
Project Director Oil Seeds  
Hyderabad.

" I visited the CTRI Research Station, Vedesandur Centre today and was quite impressed with extensive research being done in improving the quality and yield of tobacco in the area. There is a lot of scope for financing the local farmers engaged in tobacco farming from the NABARD. The DRDA Anna District will find it quite useful in getting involved in this activity ultimately benefiting the farmers of this area.

I also feel that the Research Centre can undertake extension activities in popularising tobacco cultivation in Vedesandur, Oddanchatram, Reddiarchatram and Palani blocks. If the services of P. U. Commissioner are required, they will be too happy to help. A total cultivated area of 750 acres in Anna district with a total agricultural land of around 10 lakh acres seems to be on the low side.

I wish this Centre, its Director and the Staff all success.

CTRI Research  
Station, Vedesandur.  
Date : 9-2-1988.

Sd/, Mrytunjay Sarangi, IAS.,  
District Collector,  
Anna District, Dindigul



Inputs distribution by Dr. M. S. Chari, Director, CTRI.

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## ACTIVITIES OF K. V. K. OF CTRI

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Fifty families were selected under Lab-to-Land programme at 'Nidigatla village'. Inputs like fertilizers, pesticides, Janata water filters, solar cookers, palmyrah leaf sizing and cutting machines were distributed to the adopted farm families by Dr. M. S. Chari, Director, Tobacco Research.

A first aid 'Veterinary Centre' was opened at Nidigatla village by Dr. M. S. Chari, Director. The Veterinary Doctors of K. V. K. will visit the Centre every Wednesday for treating the animals.

K. V. K. opened a Book Stall in the Exhibition organized by Rajahmundry Town Hall Trust on 6th January, 1988. The stall opened at the Regional Agricultural Research Station, Anakapalle on 1-8-1988, has won the appreciation as 'Outstanding'.

A three week special training programme on 'Coir' was inaugurated by Dr. M. S. Chari, Director on 17th Feb. 88. The Programme was organized with the co-operation of Regional Coir Training Centre and Central Board of Workers Educational Institute for the benefit of rural youth from 17-2-88 to 8-3-88.

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## CONFERENCES, SYMPOSIA & SEMINARS

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Sri V. V. Ramana Rao, Scientist S-2 (PB), Genetics & Plant Breeding Division, CTRI, Rajahmundry gave a lecture to the Village Extension Officers on the improved tobacco varieties and their identification on 23-1-88 at the Agricultural Farm, Samalkot.

Sri G. S. B. Prasannasimha Rao, Scientist S-2 (PB) Genetics & Plant Breeding Division, CTRI, Rajahmundry attended the National Seminar on 'Heterosis breeding in self-pollinated plants' on 12-13 March, 1988 at Kalyani University, West Bengal, organized by the Society of Geneticists and Breeders, sponsored by BCKV, Mohanpur and presented a paper on 'Heterosis and combining ability' studies in F. C. V. tobacco.



Opening of first aid Centre for animals by Dr. M. S. Chari, on 29-1-88

Dr. K. Nagarajan, Scientist S-3 and Head of the Division, Plant Protection, CTRI, Rajahmundry attended the national seminar on 'Management of crop diseases with plant products, biological agents' organized by the Department of Plant Pathology, Tamil Nadu Agricultural University, Madurai from 11-12 January, 1988 and presented a paper entitled 'Screening of plants for antiviral properties against tobacco mosaic virus' by Dr. K. Nagarajan and N. S. Murthy.

Dr. B. V. Ramakrishnayya, Officer-in-Charge, CTRI Research Station, Hunsur has attended the meeting on production and production control organized by the Tobacco Board at Mysore on 8-2-88. He has also attended a Seminar on Tobacco Exports organized by the Federation of Indian Export Organization (FIEO) at New Delhi on 20-2-88 and presented a paper on F. C. V, tobacco in Karnataka.

Sri Y. V. Suryanarayana, Assistant Librarian (Tech, T-5), CTRI, Rajahmundry attended the Asia Pacific Regional Training Course sponsored by UNESCO on Information Consolidation during 14-18 March, 1988 at the Institute of Public Enterprise, Osmanla University Campus, Hyderabad.

Sri M. Mohan, Tech. T-4, CTRI Research Station, Vedaasandur attended the Seminar organized by the Central Bank of India, Chidambaram under IRDP programme and gave a talk on the improved package of practices to be adopted for tobacco cultivation.

Farmers' day was organized at the CTRI Research Station, Vedaasandur on 29-1-88 and Farmers' Meet was conducted at Chidambaram, South Arcot District in collaboration with the tobacco merchants of the area.

Farmers' Extension Fortnight was organized by the CTRI Research Station, Pusa during 25-1-88 to 6-2-88 disseminate improved technologies and varieties of chewing and hookah tobacco.

Under the R & D Programme, Tobacco Board in collaboration with CTRI, Rajahmundry a 50% subsidy nursery fumigation scheme was launched by the Board allocating Rs. 1 lakh. Fumigation with Durofume in growers' nurseries was commenced under the technical guidance and supervision by the Scientists of CTRI Research Station, Hunsur and Custom service of Karnataka State Warehousing Corporation.

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PUBLICATIONS

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2. Stability studies in newly evolved lines of *Natu* tobacco (*N. tabacum* L.)  
Prasannasimha Rao, G. S. B., Ramana Rao, V. V. and Subrahmanyam, G. S. V.  
Tob. Res. 13 (1) : 82-5, 1987.
3. Bio-ecological studies on tobacco leaf eating caterpillar *Spodoptera litura* Fab.  
Patel, C. C. and Chari, M. S.  
Tob. Res. 13 (1) : 1-8, 1987.
4. Residues of some synthetic Pyrethroids in flue-cured Virginia tobacco of Andhra Pradesh.  
Ramaprasad, G., Joshi, B. G. Nageswara Rao, S.  
Tob. Res. 13 (1) : 43-6, 1987.
5. Bio-chemical potentiation of Nuclear Polyhedros Virus of *Spodoptera litura* F.  
Rao, R. S. N., Gunneswara Rao, S. and Chandra, I.J.  
J. Biol. Control 1 (1) : 36-9, 1987.
6. Particle size distribution and fertility status of representative tobacco soils of transitional belt of Karnataka.  
Murthy, K. S. N. and Devappa, K.  
Tob. Res. 13 (1) : 71-6, 1987.
7. Chemical studies on Lanka tobacco and its smoke : 3 Essential Oils,  
Kameswara Rao B.V.; Murthy, P.S.N.,  
Chakraborty, M.K. and Fujimori, T.
8. Fertilizer recommendation for economic yield of chewing tobacco based on soil test values in calcareous soil.  
Prasad, B. and Sinha, R.  
Tob. Res. 13 (1) : 27-31, 1987.
9. Genotype x environment interaction for cured leaf yield and earliness in cigar wrapper tobacco (*N. tabacum*)  
Dobhal, V. K.  
Indian J. Agric. Sci. 58 (1) : 62-3, 1988.
10. Note on reaction of cigar wrapper tobacco (*N. tabacum* L.) germ plasm to brown spot disease.  
Dilip Monga and Dhobal, V. K.  
Tob. Res. 13 (1) : 69-70, 1987.
11. Performance of some promising lines of hookah and chewing tobacco (*N. tabacum* L.) for Northern belt.  
Dobhal, V. K.  
Indian Tob. J. 19 (3) : 16-8, 1987.
12. Relative efficiency of straight and complex fertilizers on the yield and quality of motihari tobacco.  
Singh, B. L. and Pandey, R. G.  
Indian J. Agron. 30 (1) : 117-9, 1985.
13. Epidemiological studies on bacterial leaf spot disease of Bidi tobacco : Influence of topping levels on the disease development.  
Shenoi, M. M. and Abdul Wajid, S. M.  
Tob. Res. 13 (1) : 60-3, 1987.

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