



C. T. R. I.

NEWS LETTER

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MAJOR EVENTS

The Annual Research Programme Workshop Meetings on Tobacco were held during 30th July to 2nd August and on 9th September, 1982 in order to discuss and finalise the research programmes to be implemented during 1982-83 season at the Central Institute and its Research Stations. A number of Scientists, Traders Tobacco farmers, Representatives of Fertilizers and Insecticide Companies, Officers of the Agricultural

Department, Financial Organisations etc. have participated in the deliberations. The inaugural session was presided over by Sri M Venkataratnam, I. A. S. Chairman, Tobacco Board. The inaugural speech, highlighting the important achievements in various fields of research by CTRI and its Research Stations during 1981-82 season was delivered by Dr. N. C. Gopalachari, Director followed by the detailed discussions on various programmes. The Workshop approved 55 new research projects for implementation.



Sri M. Venkataratnam, IAS, Chairman, Tobacco Board, presiding over the inaugural function (seated from left Dr. N. C. Gopalachari, Sri M. Venkataratnam and Dr. G. C. Patel)



The QRT headed by Dr. G. C. Patel, visited the Institute on 29th July, 1982 (seated from left Sri T. D. Prasada Rao, Dr. G. C. Patel, Dr. N. C. Gopalachari, Dr. K. V. Srinivasan and Dr. G. K. Veeresh.)

An EEC Tobacco Delegation visited India at the invitation of the Tobacco Board to see whether FCV, Cigar-wrapper, Cigar-filler, Burley and other types of tobacco produced in India will cater to the needs of West Germany and other European countries. The delegation visited CTRI, Rajahmundry on 14th August, 1982. Dr. N. C. Gopalachari, Director, received

them and explained the research activities in progress in the different disciplines. The team was highly impressed by the scientific technology developed at the Institute. The delegation saw the various samples of FCV, Burley, Cigar filler and Cigar-wrapper tobaccos exhibited by the Institute and evinced keen interest in them.



Dr. N. C. Gopalachari, Director, showing the various leaf samples exhibited at the Institute, to the EEC delegation.



The foundation stone for residential complex for the staff of CTRI Research Station, Kandukuru was laid on 10th August, 1982 by Dr. N. C. Gopalachari, Director.

Dr. C. Kempanna, Assistant Director General, ICAR, New Delhi visited the Institute on 25th August, 1982 to finalise scheme for production of pure seed of improved varieties.

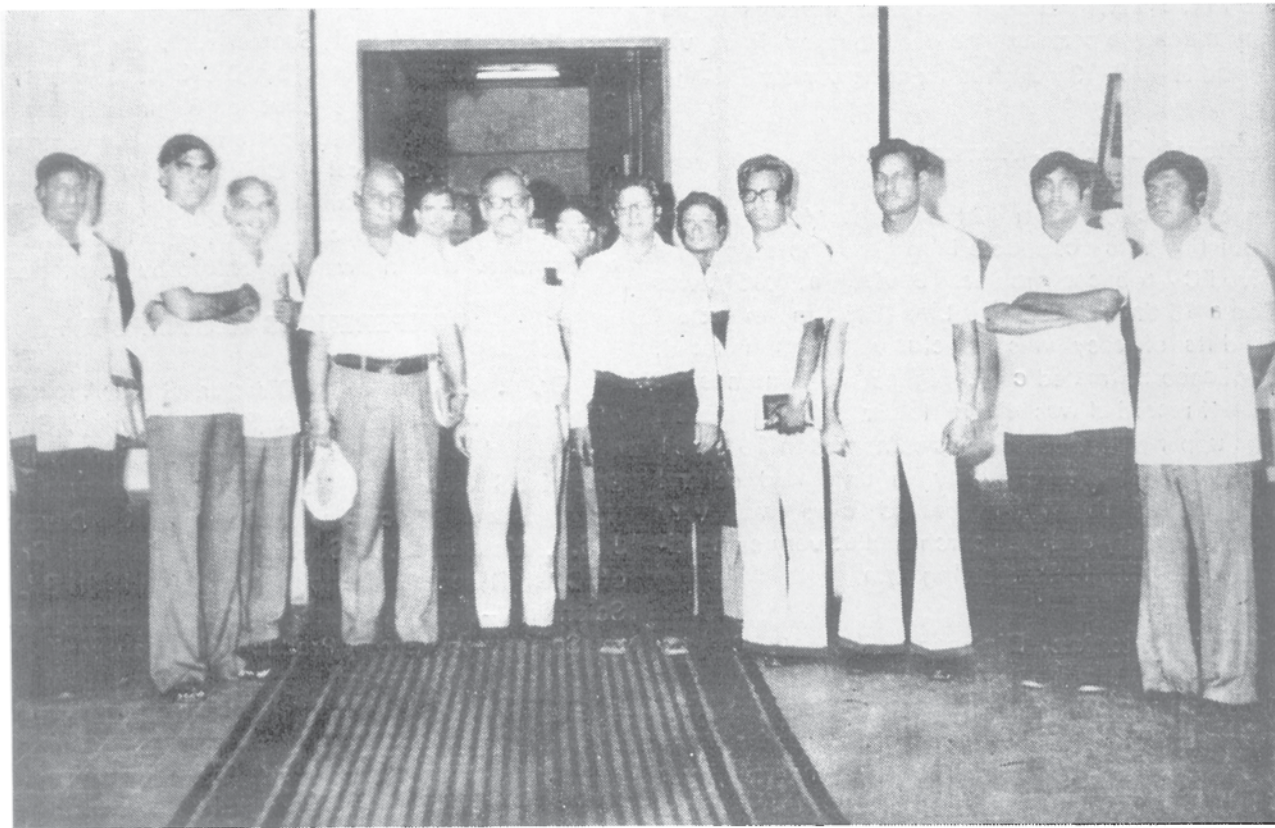


Dr. C. Kempanna, ADG, ICAR, New Delhi inaugurated the sowings in the nursery at CTRI Complex.



Dr. C. Kempanna gave a seminar talk on 26th August, 1982 at the Institute.

The visiting team of ICAR for the establishment of Krishi Vignana Kendras in Andhra Pradesh during VI Plan period, headed by Dr. H. N. Byra Reddy, Director of Extension, APAU, State Extension & Research Coordinated Council, Hyderabad, visited the Institute on 12th September, 1982 and discussed the proposal with the Director and Extension Scientists.



The Visiting Team of ICAR for establishing Krishi Vignana Kendra at CTRI, visited the Institute on 12th September, 1982.

RESEARCH HIGHLIGHTS

CTRI Rajahmundry.

Work on breeding FCV tobacco varieties, resistant to aphids, caterpillars as well as both the pests through interspecific hybridization using *N. gossei* as donor parent is progressing well and a large number of plants were isolated. Incorporation of resistance to the leaf eating caterpillar using *N. benthamiana* as donor source is progressing well.

Studies on the methods of irrigation in NLS indicated that drip irrigation resulted in considerable water economy to an extent of 60% over furrow irrigation, but cured leaf yields were less, at the rate at which it was given in this study. Further studies are envisaged to modify the rate of drip,

Herbicide mixture of Dephenamide at 4 kg + Oxy-fluoren at 0.125 kg ai/ha was effective for weed control and the tobacco yields were comparable to hand weeded control.

CTRI Research Station, Vendasandur.

The out-station trial of newly evolved country cheroot tobacco lines was conducted in farmers' fields in Sandarapatty area of Salem district. In this tract tobacco is cultivated in the early summer season, Farmers appreciated very much the performance of two new lines viz. HV 77-3 and HV 77-13 over the existing variety OK-1.

CTRI Research Station, Hunsur.

A pilot project on control of leaf spots (*Cercospora*) using Bavistin was conducted in the holding of a progressive FCV tobacco grower. Bavistin at 0.05% was sprayed on a 45 days old crop of Line-1494 in an extent of 4 ha and its efficacy was conclusively demonstrated. In cured tobacco of treated crop, highest mean number of spots per leaf recorded was 48 in lower, 149 in middle and 165 in upper plant positions as compared to 101, 781 and 1002 spots per leaf respectively in untreated control crop. Produce of the 4 ha sprayed crop was very satisfactory in quality and was purchased at very competitive rates by a leading leaf exporting firm.

CTRI Research Station, Dinahata.

The mean of the three years data revealed that intercropping of Motihari tobacco + potato, under water hyacinth mulch gave higher yields and income over Motihari tobacco alone and was recommended for adoption by the cultivators of this area.

LAB-TO-LAND PROGRAMME

CTRI Research Station, Pusa.

Tobacco Field Day and Farmers Training function was organised on 24-9-82 and 30-9-82 in villages Saidpur - Rupauli, Baghauni (Samastipur) respectively, where 100 farm families belonging to small and marginal group have been adopted under II-phase of Lab to Land Programme for the intensive transfer of technology in tobacco under multiple cropping. The function jointly organised with IFFCO at Saidpur-Rupauli was inaugurated by Sri K. K. P. Sinha, IAS, District Magistrate, Samastipur and presided over by Dr. G. Trivedi, Director, Extension

Education, Rajendra Agricultural University, Bihar, Farmers training on improved technology of tobacco and multiple cropping (maize-tobacco-maize, maize-tobacco + garlic-greengram and tobacco + sugarcane + garlic) was imparted by the scientists of this station.

In village Baghauni (Samastipur), the farmers training function was inaugurated by Dr. K. N. Srivastava, Joint Director of Agriculture, Govt. of Bihar and presided by Dr. S. F. Hameed, Professor and Head (Entomology), Rajendra Agricultural University, Bihar. On the occasion, tobacco exhibition, visit of crop demonstration (sugarcane + tobacco), distribution of critical inputs and farmers' training were organised by the station.

CONFERENCES & SYMPOSIA

Dr. N. C. Gopalachari, Director, Sri K. Apparao, Head of the Division, Genetics & Plant Breeding, Sri K. Balagopal, Head of the Division, Agronomy, Shri Ilyas Ahmed, Scientist S-1, CTRI Research Station, Vendasandur, Shri N. A. Elias, Officer-in-charge, Sri K. Devappa, Sri J. S. L. Moses, Dr. S. S. Hussaini, Scientists Grade S-1 of CTRI Research Station, Hunsur and Sri B.L. Singh, Scientist S-1 of CTRI Research Station, Dinahata attended the Seminar on "Export Production of Tobacco" organised by the Tobacco Board at Bangalore on 20th August 1982.

Dr. N. C. Gopalachari, Director, presented a paper on the 'Exportable quality tobaccos produced in India.

TRAINEES & VISITORS

C. T. R. I. Rajahmundry.

14-8-82 Delegates from E. E. C.

Mr. Graf Von Hohenthal, Agronomist, GN Leaf Department, C/o H. F. & PH. F. Reemtsma, Hamburg.

Mr. E. Koch, Executive Director, Leaf Department of Philip Morris, Germany Ltd., Muenchen.

Mr. Gerhard Lutz, Director, Leaf Department, C/o B. A. T. Cigaretten, Dabriken GmPh, Hamburg.

- Mr. Frank Motulla, Managing Director, C/o Fritz Otto Lorje, Leaf Importers, Bremen, 28-7-82 to Training in flue-curing to 10 trainees sponsored by Tobacco Board.
11-8-82
- Mr. Gustav H. Rasch, Hollerallee 6, 2800 Bremen, FRG. 30-7-82 A group of Agricultural Assistants from Rural Development Training Centre, Mandya alongwith 2 Demonstrators.
- Dr. Harald Koenigh, Secretary General, Association of the German Cigarette Industry, Member of EC - Tobacco Advisory Committee. 6-8-82 A batch of refresher course trainees from Rural Development Training Centre, Kudige alongwith a course Coordinator.
- Mr. P. Ingwersen, Vice-Chairman of the Dutch Tobacco Trade Association and Managing Director B. V. Tabak Export and Import Company, Amsterdam. 29-8-82 Dr. M. A. Wahid, World Bank Project (TRIDEP), Tanzania alongwith following delegates from Tanzania :- Messers, D. T. Brotais, M. Jabir Kigode, J. Mabagara, K. F. K. G. Kazambeh, H. S. L. Kisamo and A. J. Abed.
- Mr. Richard Lewartowski, EEC Commission, Brussels. 18-8-82 Delegation from E. E. C.
- Dr. M. Sakthivel, Adviser Agricultural and Marine Products, India Trade Centre, Brussels. West Germany accompanied the above Delegation. 23-8-82 Mr. Callen Boulden of Godfrey Phillips of India accompanied by Mr. Bhanumurthy, M/S Bommidala Bros., Guntur.
- 12-9-82 Visiting team of ICAR for establishment of Krishi Vignana Kendras, 28-8-82 Committee constituted by University of Mysore to evaluate facilities for recognising the Station as a Post Graduate Research Centre, Professor K. M. Safeulla, Head of Department of Applied Botany, University of Mysore, Mysore Dr. K. Majumdar, Dy. Director, Central Food Technological Research institute, Mysore and Patnaik, University of Mysore, Mysore.
- Dr. S.K. Mukerji, Rtd. Asstt. Director General, I.C.A.R., New Delhi**
- Dr. R. P. Singh, Assistant Director-General, cum-Project Director, AICRP on Dryland Agriculture, Hyderabad. 29-8-82 Sri K. Devappa, Scientist S-1 (Agronomy) participated addressing growers in training programme on curing and grading of FCV tobacco organised by Karanataka Agriculture Department at K. R. Nagar.
- Dr. P. N. Mathur, Head, Division of Agricultural Extension, IARI, New Delhi. 8-9-82 to A group of 8 cultivators from Saharanpur and 13-9-82 Aligarh, U. P. accompanied by Sri H. U. Ansari, Additional D. A. O. underwent training in FCV tobacco crop management and curing.
- Dr. H. N. Byra Reddy, Director of Extension, A. P. A. U., Hyderabad. 15-9-82 A batch of 16 farmers' sons, trainees of Agricultural School, Kudige alongwith a Agricultural Officer.
- C. T. R. I. Research Station, Guntur,
- 22-9-82 Sri D. P. Singh, Marketing Officer, Directorate of Marketing and Inspection, Govt. of India, Nagapur alongwith 11 Ag Mark officers.
- CTRI Research Station Hunsur.
- 27-7-82 Mr. Dick Van Cappellen, M/S Casalee Belgium, Antwerp, Belgium,

CTRI Research Station, Pusa.

18-8-82 Dr. S. K. Sharma, Joint Director, IARI, New Delhi Visited the Station.

4-9-82 Shri Mahesh Prasad, IAS, Cane Commissioner, Govt. of Bihar, Patna.

10-9-82 Dr. A. Alam, ADG (Engineering), ICAR, New Delhi.

HONOURS AND AWARDS

Dr. J.A. V. Prasad Rao, M. Sc. (Ag), Ph. D., Scientist S-1, was elected as Fellow of Institution of Chemists (India).

Sarvashri B. Nageswara Rao, Farm Superintendent (T-7) and A. Hanumantha Rao, Technician T-4 were awarded M. Sc. (Ag) degrees by Viswa Unnayan Samsad, World University of Informal Higher Education for their thesis "Utilization of solar energy for curing virginia tobacco" and "Studies on potassium nutrition of flue-cured tobacco" respectively.

APPOINTMENTS AND TRANSFERS

The following staff members have been promoted with effect from 1-7-1982.

CTRI, Rajahmundry.

	From	To
Sri R. B. Narayana Rao	T-4	T-5
" C. B. Sarma	"	"
" D. S. Varma	T-1-3	T-4
" M. Israel	T-2	T-1-3
" P. Kedaralingaraju	"	"
" S. Pydiraju	"	"
" V. Nageswara Rao	"	"
" Y. Narasimha Rao	"	"
" V. Venkatacharyulu	"	"
" M. Surya Rao	"	"
" J. B. Sarma	"	"
" K. Madhava Rao	"	"

" V. Rangacharyulu T-2 T-3-1
" Shaik Abbasa " "

CTRI Research station, Guntur

Sri Ch. Nerasimha Rao " "

CTRI Research Station, Pusa.

Sri Babu Shaheb Jha " "
" B. C. Prasad " "
" R. C. Pandey " "

CTRI Research Station, Vedasandur.

Sri P. Thirumalaiswamy " "
" M. P. Ramaswamy " "

CTRI Research Station, Kandukur.

Sri M. Mohan T-1-3 T-4

CTRI Research Station, Hunsur.

	From	To
Sri A. S. R. Murty	T-4	T-5
" A. Narana Rai	T-2	T-1-3
" S. Chellaiah	"	"
" V. Narasimha Rao	"	"

CTRI Research Station, Dinhat.

Sri N. C. Deb	"	"
" S. Saha	"	"
" Suranjan Chanda	T-1	T-2
" Manbhola Barman	"	"

Sri T. Sitaramachari, Scientist S-1 has been transferred to CTRI Research Station, Guntur on 10-9-1982.

RETIREMENTS AND DEATHS

Sri. D. P. Reddy, Technician T-1-3, CTRI, Rajahmundry retired from Council's service with effect from 31-7-1982.

Sri G. Veerajulu, S. S. Gr. I. CTRI Rajahmundry expired on 26-7-1982.

Sri T. Singa Rao, Technician T-1, CTRI Research Station, Guntur expired on 15-9-1982.

PAPERS PUBLISHED

1. Depletion of available potassium in light and black soils of A. P. under continuous cropping with tobacco (*Nicotiana tabacum L.*)
V. Krishnamurthy and B. V. Ramakrishnayya
Indian Potash J., 7 (2) : 19-24, April, 1982.
2. Control weeds in Burley tobacco for higher yields.
C. V. Raghavaiah and R. Srinivasulu
Tob. News 5 (4) : 5-6, October, 1981.
3. Occurrence of potassium deficiency in tobacco seedlings raised on Northern Light Soils of A. P.
V. Krishnamurthy, P. R. S. Reddy and B. V. Ramakrishnayya.
Tob. Res. 8 (1) : 91-5. 1982.
4. Performance of disease resistant lines in Southern Light Soil belt of A. P.
A. B. Sastry, M. Mohan & K. Nagarajan
Tob. Res. 8 (1) : 73-7, 1982.
5. Suppression of suckers with non-edible oils in FCV tobacco. M. Bangarayya, C. B. Sarma, Y. Ch. Narasimha Murthy and D. Prabhakara Babu
Tob. Res. 8 (1) : 25-9. 1982.
6. Potassium distribution in tobacco according to leaf position on stalk.
N. C. Gopalachari & A. Hanumantha Rao
Tob. Res. 8 (1) ; 87-91' 1982.
7. A note on the alkaloid and free amino acid composition of tobacco seeds.
S. R. Prabhu and K. P. Satyanarayana Murthy
Tob. Res. 8 (1) : 85-7. 1982.
8. Effect of neem seed kernel suspension on *Telenomus remus* an egg parasite of *Spodoptera litura F.*
B. G. Joshi, Ramprasad, G. and S. Sitaramaiah
Phytoparasitica 10 (1) : 61-3, 1982.
9. Efficacy of some insecticides and *Bacillus thuringiensis* Berliner in the control of *Spodoptera litura F.*
Ra G. Ramaprasad, B. G. Joshi and S. V. V. Satyanarayana
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10. Studies on alternate host plants of *Myzus persicae* Sulz. during non tobacco season.
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Tob. Res. 8 (1) : 77-9, 1982.
11. Toxicity of Dark Western Fire-cured tobacco to *Spodoptera litura F.*
S. Sitaramaiah, G. Ramaprasad, S. Krishnamurthy and G. S. B. Prasanna Simharao,
Tob. Res. 8 (1) : 79-80, 1982.
12. Studies on the life history of *Coranus spiniscutis* Reuter and *Coranus* Sp (?) *Atricapillus* Dist (Reduvidae Heteroptera) on *Spodoptera litura F.* from India.
S. Sitaramaiah and G. Ramaprasad.
Tob. Res. 8 (1) : 81-5, 1982.
13. India produces 'Internationally Marketable Quality Tobacco'. N. C. Gopalachari
Tob. News (Spl. issue) : 27-38, 1982.
14. Performance of certain flue-cured tobacco varieties under varying levels of N, P, K, after kharif gingelly.
K. Balagopal, S. N. Trlpathi, M. Umamaheswararao, R. Subbarao, V. V. Ramanarao and A. V. Sekhara Babu.
Tob. Res. 8 (1) : 29-33, 1982.
15. Progress of research in cigar tobaccos of Tamil Nadu.
S. Krishnamurthy and M. Ilyas Ahmed
Tob. News (Spl. Issue) : 69-73, 1982.

16. Genetic improvement in yield and quality of cigar wrapper tobacco for Tamil Nadu.
G. S. B. Prasanna Simharao, M. Ilyas Ahmad
J. S. L. Moses and N. Subbaiah.
Tob. Res. 8 (1) : 52-56, 1982.
17. Importance of leaf parameters in chewing tobacco varieties.
S. Amarnath and R. Sinha
Tob. Res. 8 (1) : 52-56, 1982.
18. Plant spacing in hookah tobacco under irrigated and rainfed conditions of North Bihar
R. Sinha, A. N. P. Nandkeolyar and A. K. Pandey.
Tob. Res. 8 (1) : 61-63, 1982.
19. Cultivation of cigar filler and wrapper tobacco in West Bengal.
R. G. Pandey, and B. L. Singh.
Tob. News (Spl. issue) ; 63-66, 1982.
20. Effect of EMS on growth and mutation frequency in FCV tobacco.
S. V. Rao and J. S. L. Moses.
Tob. Res. 8 (1) : 19-24, 1982.
21. On some growth studies of tobacco in A. P.
N. S. Murty and C. R. Nageswararao
Agric. Situat. India 37 (1) : 3-11, 1982.
22. Stability analysis for yield of some induced and derived lines in flue-cured tobacco (*Nicotiana tabacum L.*)
N. S. Murthy, C. V. Rao, K. Apparao, K. T. Ramavarma and A. I. Narayanan
Tob. Res. 8 (1) : 69-73, 1982.
23. Effect of soil moisture regimes & nitrogen levels on total and first grade leaf yields and economics of cigar wrapper tobacco (*N. tabacum L.*).
S. N. Tripathi and B. Bhattacharya
Indian Agric. 25 (4) : 213-219, 1982.
24. Influence of potassium and magnesium on yield and some physical characteristics in cigar wrapper tobacco.
K. D. Singh and B. L. Singh
Indian J. Agric. Sci. 52 (6) : 388-391, 1982.

Edited & Compiled by
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