



C. T. R. I.

NEWS LETTER

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The weather was mainly dry with only two rainy days of 10.5 mm and 34.6 mm during January and March respectively.

Harvesting of the flue-cured tobacco has been completed and the curings are satisfactory, with good grade out-turn.

Tobacco crop throughout Tamil Nadu was severely affected due to drought conditions.

RESEARCH HIGHLIGHTS.

The improved solar barn, in the preliminary test conducted from 5th to 9th March, 81 showed a saving of about 30% on fuel for curing over the conventional barn.

A 12 tonnes capacity briquetting press was installed to prepare briquettes out of coal dust, paddy husk, saw dust and other agricultural wastes to use as an alternative fuel for curing of flue-cured tobacco in place of fire wood or coal which are generally used but which have become costlier.

A new systemic fungicide 'RIDOMIL - 25WP' was found to be very promising in controlling damping off and leaf blight diseases.

The experiments conducted at CTRI Research Station, Vidasandur have revealed that (i) foliar spraying of Urea increases the yield by 28.69% over soil application of nitrogen and (ii) suppression of suckers by application of Neem oil emulsion at 35% concentration was very effective.

During the Research Council meeting, held on 23-1-81 the following recommendations were approved.

1. **Plant Physiology Division** : (Sponsored by Sri M. Bangarayya)

Soaking the tobacco seed in 50 ppm gibberellic acid @ 1.5 ml/gm of seed for 48 hours and dried gives better germination.

2. **Seed and Seedlings Section** : (Sponsored by Sri I. V. G. Krishna Murty)

Putting one drop of ethylene dibromide on chalk tablet in tobacco seed packed for distribution in air tight polythene containers, controls cigarette beetle infection.

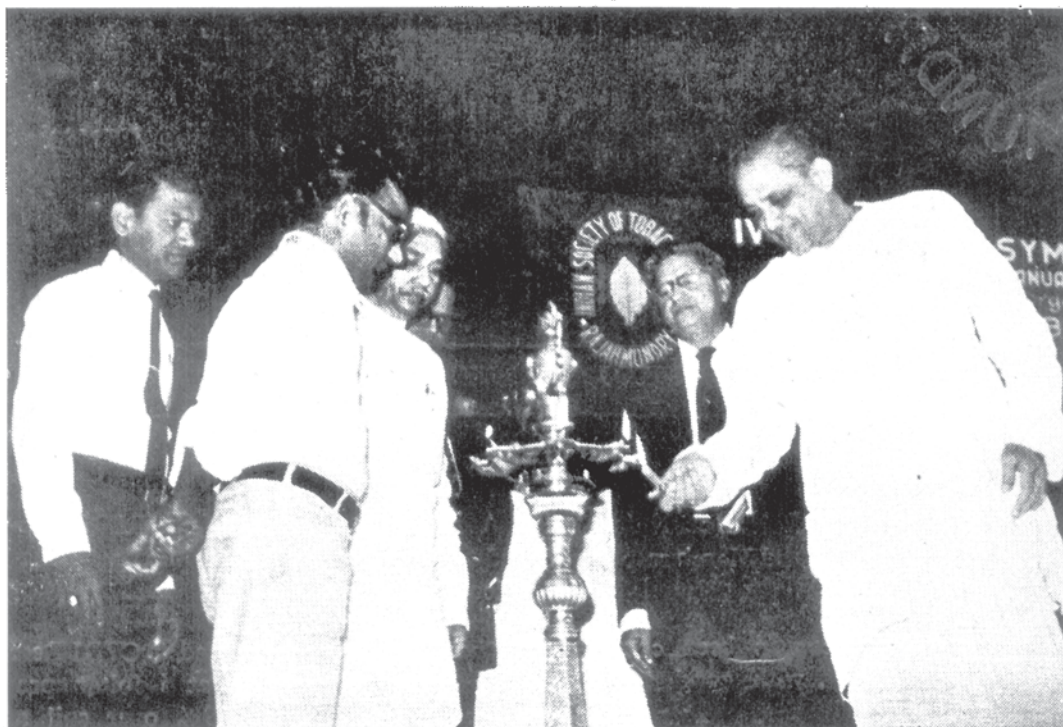
3. **CTRI Research Station, Vendasandur :** (Sponsored by Mr. J. S. L. Moses)

Chewing tobacco variety HV. 72-13 designated as 'Maragadham' was approved to be passed on to the State Variety Release Committee for considering its release. This variety was developed by Mr. J. S. Lawrence Moses,

Jb, M. Ilyas Ahmed and Sarvasri G. S. B. Prasannasimha Rao, S. Krishna Murty and K. Balagopal.

MAJOR EVENTS.

The Indian Society of Tobacco Science organised the fourth National Symposium on tobacco from 19th to 22nd January, 1981 at Rajahmundry in association with I. C. A. R. The theme of the Symposium was 'Advances and challenges in crop production technology, marketing and processing of tobacco'.



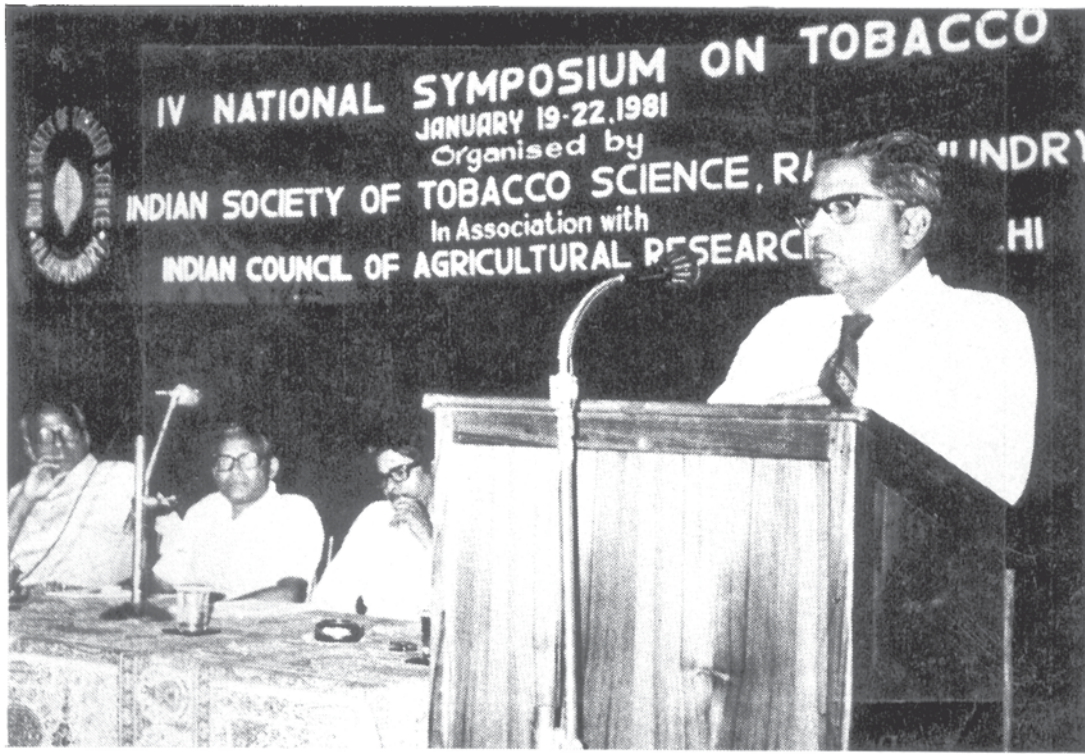
On 19-1-1981 Sri Y. Venkata Rao
Hon' ble Minister for Agriculture, A. P., inaugurated the Fourth National Symposium
on Tobacco.

More than 150 delegates from different parts of the Country and abroad attended the Symposium. Eighty five scientific papers were received out of which 70 were presented.

During the symposium, special lectures were delivered by Sri T. D. Prasada Rao, Research Manager, ITC-ILTD Divison, Sri P. Seshagiri Rao, a progressive tobacco grower and Indian representative of 'World Tobacco', Dr. B. R. Murty, Project Director, Nuclear Research

Laboratory, I. A. R. I., New Delhi, Dr. D. V. R. Reddy, Principal Virologist, ICRISAT, Hyderabad, DR. K. G. Gollakota, Professor of Eminence, Andhra Pradesh Agril. University, Hyderabad and Dr. H. K. Pandey, Director, C. R. R. I., Cuttack.

The plenary session was chaired by Dr. N. Shanmukha Rao, Vice-chancellor, Jawaharlal Nehru Technological University, Hyderabad.



Dr. N. C. Gopalachari, Director, Tobacco Research, addressing the delegates during the plenary session.

C. T. R. I. Research Station, Guntur.

Field day was celebrated during the first week of January at Ankireddypalem, Lalpuram, and Budampadu

centres, where multilocational trials on 'Natu' tobacco with improved lines, II-435, II-426, II-409, II-403, and D. G. 3 (Control) were laid out.



Field day at Budampadu (Guntur Dist). Scientists and farmers visiting the trial plot.

Farmers' day was celebrated on 16-1-1981. Dr. N. C. Gopalachari, Director, Tobacco Research, presided over the function and Sri Kota Punnaiah, chairman, Tobacco Board was the Chief guest. Sri G. S. B. Prasanna Simha Rao, Officer-in-Charge, narrated briefly the major achievements of the Station during the year.



Dr. N. C. Gopalachari, Director, Tobacco Research delivering the presidential address on the Farmers' Day celebration at CTRI Research Station Guntur. Sri Kota Punnaiah, Chairman, Tobacco Board as the Chief guest and Sri G. S. B. Prasanna Simha Rao, Officer-in-Charge of the Station are also seen on the stage.

Findings such as close planting of 'Jayasri' variety at 60 cm x 60 cm with 40 kg N/ha., air-cured variety HDBRG at 80 cm x 60 cm with 75 kg N/ha and topping at 20 leaves level, growing of cotton in rotation with tobacco by using only the pesticides approved for tobacco to minimise pesticide residues, attracted the cultivators and traders.



Sri Kota Punnaiah, Chairman, Tobacco Board, cultivators, traders and press men were shown round the exhibition arranged on the farmers' day at CTRI Research Station, Guntur.

C. T. R. I. Research Station, Kandukur :

Training programme on scientific methods of curing, grading etc., was organised in collaboration with the State Department of Agriculture (Tobacco) from 2-2-81 to 8-2-81. About hundred farmers from Ongole, Kandukur, Giddalur, Markapur, Podili, Darsi and Kanigiri taluks of

Prakasam district underwent the training. The training programme was inaugurated by Sri A. N. Singh, Director, Tobacco Development, Madras and was presided over by Sri A. Jagannadham, Deputy Director (Tobacco) Department of Agriculture, Andhra Pradesh. Sri Indrajit Pal, IAS, Sub-Collector and a number of progressive farmers, traders and AGMARK Officials attended the function.



Inaugural function of the Training Programme organised at CTRI Research Station, Kandukur. Sri C. Subba Rao, A. D. A. (Tobacco) welcoming the guests and trainees.



Sri K. D. Singh. Officer-in-charge, CTRI Research station, Kandukur, explaining the research activities on the Farm.

CTRI Research Station, Hunsur :

Final arrangements for taking over 60ha of land in Sollepura forest area for the Station were completed

during the visit of Dr. N. C. Gopalachari, Director, Tobacco Research and Sri D. S. Sastry, Administrative Officer.



Dr. N. C. Gopalachari, Director, Tobacco Research inaugurated the Scientists' block of the newly constructed extension of the laboratory building of CTRI Research Station, Hunsur on 11-3-1981.



Sri N. A. Elias, Officer-in-Charge, CTRI Research Station, Hunsur, lit the lamp in the reorganised library of the station on 11-3-1981.



Sri D. S. Sastry, Asst. Administrative Officer, CTRI, lit the lamp in the extended administrative block of CTRI Research Station, Hunsur on 11-3-1981.

C. T. R. I. Research Station, Pusa :

Under the Lab to Land Programme, Tobacco extension fortnight was organised from 9-1-1981 to 31-1-1981.

Sri A. R. Vaidyanathan, I. A. S., Agricultural Production Commissioner to the Government of Bihar, inaugurated the function.



Sri A. R. Vaidyanathan, I. A. S., Agricultural Production Commissioner, Bihar, visiting the exhibition organised under Lab to Land programme, extension fortnight.



The farmers' day at CTRI Research Station, PUSA was inaugurated by Dr. K. K. Jha, Vice Chancellor, Rajendra Agricultural University, Bihar and Sri Awanti Lal (extreme left) proprietor, Prabhat Zarda Factory, Muzaffarpur presided over the function on 30-1-81.

The newly constructed post harvest Technology lab and the new meteorological observatory at the Station were inaugurated by Dr. N. C. Gopalachari, Director, Tobacco Research on 9-2-81.



Dr. N. C. Gopalachari, Director, Tobacco Research, inaugurating the new meteorological observatory at CTRI Research Station, Pusa on 9-2-81.

CONFERENCES AND SEMINARS.

Sri B. S. Ramachandrudu, Technician T-5, Agricultural Engineering section, CTRI has attended the 18th Convention of the Indian Society of Agricultural Engineers held at the Central Soil Salinity Research Institute, Karnal from 26th to 28th Feb. 1981 and presented two papers entitled, 'Design and development of deep fertilizer placement implement' by K. K. Satapathy & B. S. Ramachandrudu and 'Evaluation of the efficiency of a seed treating drum' by B. S. Ramachandrudu and R. N. Chanda.

On 23-1-81, during the forenoon session of the Research Council meeting held at CTRI, Sri N. A. Elias Officer-in-Charge, CTRI Research Station, Hunsur gave a talk on 'Various perennial patterns of *Meloidogyne* from tobacco' and 'Bacterial disease'.

The following Scientists gave seminars on 26-2-86, for their pre-Ph.D examination :

- 1) Sri G. V. G. Krishna Murty, Scientist S-1 on "Studies on Biology and control of *Orobanche cernua* on tobacco".
- 2) Sri T. Sitaramachary, Scientist S-1, on "Genetic analysis of certain agronomic, chemical and technological characters in white Burley tobacco (*N. tabacum*)"
- 3) Sri A. S. Krishna Murty, Scientist-S on "Inheritance of yield, yield components and total alkaloids in F. C. V. tobacco."

C. T. R. I. Research Station, Guntur : Sri M. Umamaheswara Rao Scientist-SI (Agronomy) participated

in the farmers' training programme organised by the State Department of Agriculture, Andhra Pradesh at Kandukur, Kaligiri and Nellore from 2-2-81 to 7-2-81 and imparted training to the cultivators.

C. T. R. I. Research Station, Hunsur : Sri K. Devappa, Scientist-SI (Agronomy) addressed a gathering of F. C. V. tobacco farmers on 6-3-81 at the farmers' meeting arranged by the Karnataka Department of Agriculture at Saligrama.

VISITORS.

1. Dr. Boris Vistadinov Tchintchev, Geneticist and Plant Breeder, Central Tobacco Research Institute, Plovdiv, Bulgaria visited on 31-1-81.
2. Dr. Hanne Larsen and Dr. Niels Johansen, Denmark, visited on 20-2-81.
3. Mr. Hiralal U. Phopharia, Chief Chemist, M/s Golden Tobacco Co. Ltd., Bombay along with Sri G.

Dwarakanath, Chief Chemist G. T. C., Guntur visited the Institute on 4-4-81.

4. Twenty two village Development Officers from Training Centre, Rajendranagar, visited the Institute on 26-2-81.
5. Students from Agricultural College, Bapatla visited the Institute on 28-3-81.
6. A batch of 19 Technical Supervisors from Tobacco Board were imparted training from 5th to 7th January, 81.

C. T. R. I. Research Station, Guntur :

Dr. Boris V. Tchintchev from Bulgaria and 53 tribal farmers along with the District Training Officer, Baroda (Gujarat) have visited the station, during the quarter.



Mr. Tchintchev from Bulgaria visiting the experimental plots at CTRI Research Station, Guntur.

C. T. R. I. Research Station, Kundukur :

Sri P. Seshagiri Rao, Indian representative of 'World Tobacco' Guntur and Dr. Boris V. Tchintchev, Plovdiv, Bulgaria visited the station on 12-2-81.

Mr. R. S. Prakash Rao, Principal, T. R. R. Govt' College, Kandukur visited the Station on 11-2-81.

Assistant Director, Intensive Sheep Development Project, Kanigiri and Dr. M. Sreenivasulu Reddy, Asst. Director, Animal Husbandry, Kandukur have visited the station on 3-1-81.

C. T. R. I. Research Station, Hunsur :

Sri K. R. Mandanna, Extension Officer, K. R. Nagar, Karnataka Department of Agriculture, visited the Station on 3-3-81.

HONOURS AND AWARDS

Sri K. Appa Rao, Scientist-S2 was awarded meritorious certificate by Government of India for the services rendered to Civil defence and home guards organisation. The certificate was presented by Sri A. K. Goyal, Collector, East Godavari District, on the Republic Day Celebration.

Sri S. N. Tripathi, Scientist-S1 (Agronomy) was awarded Ph.D degree for his thesis entitled "Studies on Agronomy of Cigar tobacco in the Eastern Region of India" by Calcutta University.

TOBACCO INSTITUTE CLUB

The club members Sri D. Ch. Raja Rao and Sri V. Soundararajan won the master pairs Bridge event conducted by the Cosmopolitan Club, Rajahmundry on 22-3-81.

PERSONNEL

1. Sri M. Suresh Kumar, Administrative Officer has been transferred as such to AICRIP., Hyderabad and was relieved on the AN of 3rd January, 1981.
2. Dr. Janardan Chaturvedi, has been appointed to the post of Scientist Gr. S-2 (Agril. Extension) at CTRI Rajahmundry w. e. f. 5-1-1981.
3. Dr. G. Nagaraj, Scientist Gr. S-1 (Bio-chemistry), CTRI, Rajahmundry has been relieved of his duties on the AN of 24-2-1981 consequent on his selection to the post of Scientist Gr, S-2 (Bio-chemistry) at National Research Centre for Groundnut, Junagadh (Gujarat).

Papers Published.

1. Deficiency of potash in tobacco nurseries of light soils and its rectification (Telugu) V. Krishnamurty, P. R. S. Reddy and B. V. Ramakrishnayya.
Annadata 3 (1) : 30-1. 1981.
2. Effect of pre-emergence herbicides on weed control and yield of FCV tobacco
C. Veera Raghavaiah, M. Sannibabu and M. Someswara Rao.
Pesticides 14 (11) : 32-5, 1980.
3. Studies on crop rotation with FCV tobacco.
M. Someswara Rao
Indian Farm Dig. 13 (12) : 23-5, 1980.
4. Fertilizer requirements for flue-cured tobacco.
B. V. Ramakrishnayya.
Indian Farm Dig. 13 (12) : 27-9, 1980.
5. Water management for FCV tobacco in Northern light soils of Andhra Pradesh.
M. Sannibabu
Indian Farm Dig. 13 (12) : 30-2, 1980.
6. Improved techniques for production of *Natu* tobacco.
K. Balagopal
Indian Farm Dig. 13 (12) : 33-5, 1980.
7. Preliminary evaluation of herbicides for weed control in flue-cured tobacco nursery.
C. Vera Raghavaiah and T. Krishnamurty.
Pesticides 25(1): 28-32, 1981.
8. Improved chewing tobacco varieties for Tamil Nadu and Bihar. T. Sitaramachari,
Indian Farm Dig. 13(12) : 14-5, 1980
9. Improved flue-cured tobacco varieties for black and light soils, A. B. Sastri,
Indian Farm Dig. 13(12) : 41-3, 1980.
10. Effect of micronutrients on the yield, quality and chemical composition of FCV tobacco.
M. Bangarayya, S. Krishnamurty, C. B. Sarma and Y. Ch. Narasimhamurthy.
Tob. Res. 6 (2) : 112-8, 1980.

11. Studies on some chemical quality parameters of *Natu* tobacco. C. V. S. S. V. Gopalakrishna and A. Hanumantha Rao.
Tob. Res. 6(2) : 94-7, 1980.
12. Lipophilic constituents of *Natu* tobacco iv. B. sitosterol, solanesol and their esters.
G. Nagaraj and M. K. Chakraborty.
Tob. Res. 6(2) : 121-3, 1980.
13. Lipophilic constituents of *Natu* tobacco V. Polyphenols and carbonyls.
G. Nagaraj and M. K. Chakraborty.
Tob. Res. 6(2) : 123-4, 1980.
14. Diseases of tobacco and their control.
K. Nagarajan.
Indian Farm Dig. 13(12) : 44-8, 1980.
15. Preliminary evaluation of ridomil against damping-off and leaf blight diseases of tobacco in seed beds.
K. Nagarajan and T. S. N. Reddy
Tob. Res. 6(2) : 127-31, 1980.
16. Control insect-pests of tobacco.
G. Ramaprasad and S. Sitaramaiah
Indian Farm Dig. 13 (12) : 36-40, 1980.
17. Persistent residual toxicity of the recommended insecticides to the first instar larvae of tobacco stem borer *Scrobipalpa heliopa* Low.
K. N. Rao and V. S. R. Das.
Tob Res. 6 (2) : 108-11, 1980.
18. Levels of knowledge of tobacco farmers in East Godavari district on the improved package of practices in tobacco.
S. K. Naidu and A. M. Tampi
Tob Res. 6 (2) : 79-83, 1980.
19. A study on the adoption of the package of practices recommended by Central Tobacco Research Institute, Rajahmundry by tobacco farmers.
S. K. Naidu and A. M. Tampi
Tob. Res. 6 (2) : 88-93, 1980.
20. Impact of research on the production of tobacco in India.
N. C. Gopalachari
Indian Farm Dig. 13 (12) : 5-13, 1980.
21. Cigar and cheroot tobacco production in Tamil Nadu and Andhra Pradesh. G. S. B. Prasannasimha Rao.
Indian Farm Dig. 13 (12) : 16-22 & 29, 1980.
22. Effects of levels of fym, nitrogen and topping on the yield of *Lanka* tobacco.
B. Nageswara Rao and M. Someswara Rao.
Tob Res. 6 (2) : 125-6, 1980.
23. Suppression of suckers in cigar filler tobacco with chemicals.
K. Balagopal and R. Subba Rao.
Tob Res. 6 (2) : 84-87, 1980.
24. Influence of gingelly-tobacco rotation, NPK levels and varieties on the incidence of *Orobancha*.
V. V. Ramana Rao, A. V. Sekharababu and S. Kandaswamy.
Tob. Res. 6 (2) : 119-21, 1980.
25. Effect of TMV on the quality of tobacco (Telugu).
K. S. N. Murthy, J. A. V. Prasada Rao and S. S. Prasad.
Annadata 13(3) : 24-25, 1981.
26. Aroma in tobacco.
S. R. Prabhu, B. V. Kameswara Rao and N. C. Gopalachari.
Tob. News 3&4(12 & 1) : 5-10, 1980.
27. Improved management practices to produce high yield and high quality f. c. v. tobacco (telugu).
N. C. Gopalachari.
Annadata 13(1) : 43-7, 1981.

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