



CTRI News Letter

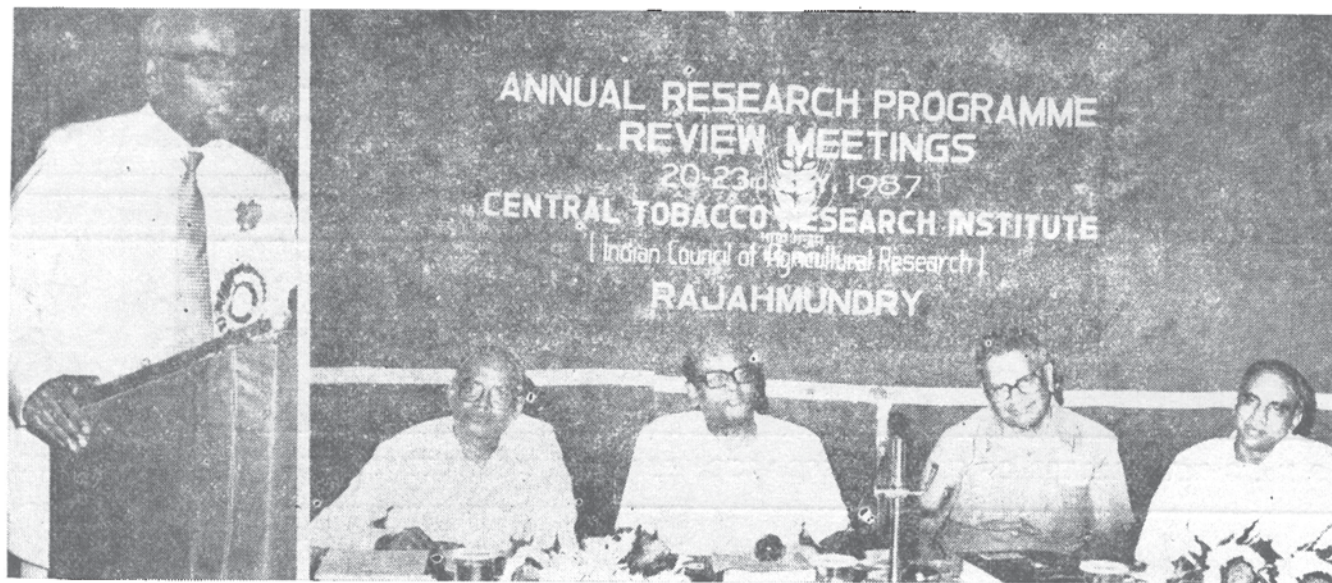
CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY-5 (A.P.)

Vol. 9 No. 3 NEWS LETTER OF CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY, SEPTEMBER 87

MAJOR EVENTS

The Annual Research Programme Review meetings on tobacco were held at CTRI, Rajahmundry during 20-23 July, 1987. Dr. C. Kempanna, Deputy Director General (CS), Indian Council of Agricultural Research, New Delhi inaugurated the meetings while Dr. M.S. Chari, Director welcomed the distinguished guests. The dignitaries present are Dr. T.D. Prasada Rao, General Manager, M/s. ITC Ltd., Dr. B. G. Jaisani, Project Co-ordinator (T), A.I.C.R.P., Anand, Dr H. G. Singh, Dean (Agril), Chandrasekhar Azad University of Agriculture & Technology, Kanpur, Dr. G.P. Chennabasavanna, Emeritus Professor, University of Agricultural Sciences, Bangalore, Dr. A. N. Mukopadhyay, Professor & Head (Plant Pathology), G.B. Pant University of Agriculture & Technology, Pantnagar, Dr. O. P. Dubey, Scientist (Entomology), ICAR, Dr. C. S. Krishnamurthy, Consultant, Tobacco Board, Dr. T. S. Subrahmanyam, Assistant Manager, M/s. ITC Ltd., Scientists from Gujarat Agricultural University and Scientists and Technicians of CTRI also participated in these meetings.

Dr. Kempanna in his inaugural address emphasised the need to have an Interphase mechanism between research, development and extension for the transfer of technology for the benefit of tobacco farming community. He appealed to the scientists that a concerted and concentrated effort to combat the national calamities should be taken up on priority. Talking on whitefly menace, Dr. Kempanna said that the magnitude of the damage and loss caused by whitefly could be understood by the fact that 9 lakh bales out of 14 lakh bales of cotton produced in Andhra Pradesh was rejected by the trade because of its poor quality owing to whitefly attack. He mentioned that the problem could now be solved through the release of a variety LPF-141, named as kanchana which had been found resistant to whitefly and could be used in Tamil Nadu, Andhra Pradesh and Maharashtra.



Inauguration of ARPR Meetings (L to R Sitting) Dr. B. G. Jaisani, Dr. C. Kempanna, Dr. M. S. Chari and Dr. T. D. Prasada Rao.

Appreciating the efforts of scientists in developing high yielding varieties with a potential of over 2000 Kg/ha, Dr. Kempanna stressed the need for indepth studies on their susceptibility to various pests and diseases and appealed for the formulation of a 10-year programme of work which would provide for the vertical growth of tobacco, shrinking the area and expanding the volume. He also advised the scientists to concentrate on irrigation water economy, energy conservation, salinity in tobacco, marketing research and colour deterioration of tobacco in storage.

Dr. Chari said that inspite of vigorous anti-smoking campaign all over the world, the smokers are increasing although the area under tobacco is coming down in certain parts of the world. In India, the tobacco farmer prefers to cultivate tobacco as it gives maximum return per unit area when compared to other crops like cotton, chillies etc. He also emphasised that other crops like cotton, chillies, sugarcane, bengal gram, coriander etc. which are considered as replacement to tobacco crop, cannot make an impact on the tobacco farmers because

of pests and diseases problems, low yields, market instability and weather vagaries.

Dr. Chari impressed upon the Scientists to raise to the occasion to meet the challenges in producing the right style of tobacco that can meet the International demands. Speaking on the whitefly attack on tobacco, he said that the timely mid course correction given by CTRI and Tobacco Board saved the crop to a large extent, thereby increasing the FCV tobacco yields in Andhra Pradesh. He mentioned that efforts are underway in the conservation of non-conventional energy, alternative uses of tobacco in collaboration with various Institutes. Dr. Chari thanked the ICAR for sanctioning a scheme for bio-ecological studies and critical evaluation of reasons for resurgence of whitefly in Andhra Pradesh.

Dr. T. D. Prasada Rao, Chairman, QRT and M/s. ITC Limited, said the cost of production of tobacco in India was increasing and therefore advised scientists to incharge the productivity coupled with quality for export



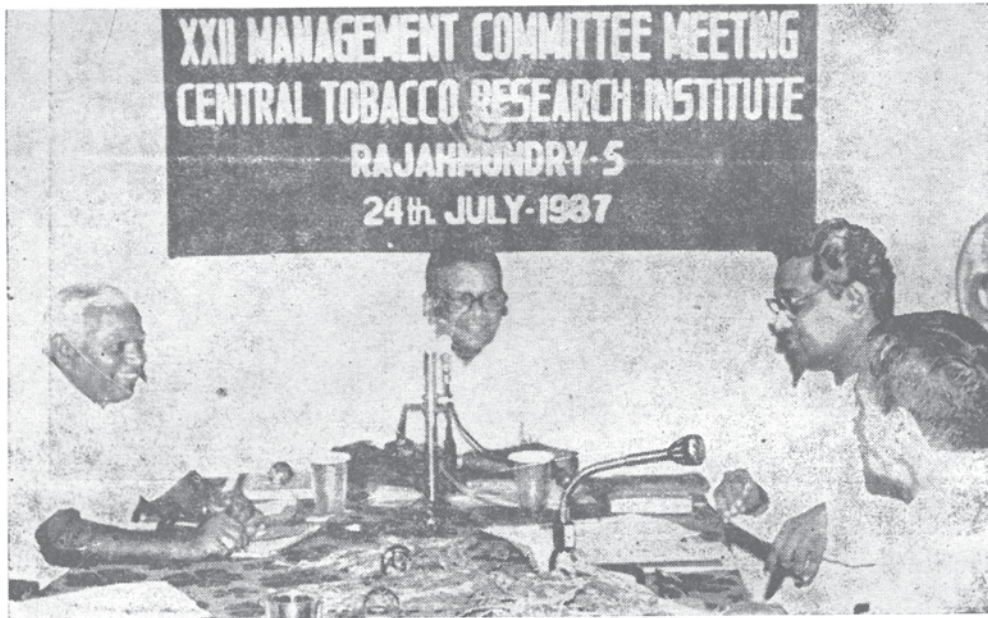
Dr. M. S. Chari Director, CTRI explaining Research activities to Sri K. V. Natarajan, IAS, Principal Secretary, Energy Environmental Science & Technological Department, of Govt. Andhra Pradesh, Hyderabad.

market. Dr. B. G. Jaisani, Project Co-ordinator (T), appealed the scientists not to forget indigenous tobacco which enjoyed good demand in a group of countries.

Sri K. V. Natarajan, IAS, Principal Secretary, Energy, Environmental Science & Technological Department, Government of Andhra Pradesh, visited the Institute on 19th July, 1987. Dr. M. S. Chari, Director took him round the different Divisions and Laboratories and briefed him the various activities. Sri Natarajan evinced keen interest in the tobacco protein technology developed by the Scientists of CTRI and requested the Director to send the tobacco proteins to the National Institution of Nutrition, Hyderabad to evaluate their nutritive value for use in Mid-day Meal Programme for school children. Shri Natarajan also felt that the technology developed in extracting Nicotine Sulphate, which is used as a pesticide should be tested under

pilot project with the financial support of Science and Technology Department, Government of Andhra Pradesh. He showed keen interest on the use of neem, which is used in pest control and expressed that it should be commercialised so that the farmer can get it at a cheaper rate. He also expressed that the Chemicals which are polluting the soil and water should also be monitored to avoid pollution. He expressed his happiness to see the multi-faced research activities going on at the Institute for the benefit of the tobacco farming community and industry.

XXII Management Committee Meeting was held on 24-7-87 at CTRI, Rajahmundry under the Chairmanship of Dr. M. S. Chari, Director. The members of the Management Committee expressed their appreciation about the smooth running of the Institute.



Members discussing in the XXII Management Committee Meeting

The QRT accompanied by Dr. M. S. Chari, Director visited the CTRI Research Station, Hunsur during 18-19 August, 1987. Dr. T. D. Prasada Rao, Chairman of the team alongwith the members Dr. G. P. Channbasavanna, Emeritus Professor, Department of Entomology, University of Agricultural Sciences, Bangalore and Dr. A.N. Mukhopadhyay, Professor & Head (Plant Pathology), College of Agriculture, G. B. Pant University of Agriculture & Technology, Pantnagar, reviewed the research work carried out at the Research Station during 1-1-82 to 31-12-86.

MINI WORKSHOP :

A mini workshop on 'Soil fertility and leaf quality evaluation of FCV tobacco' was organized by the Indian

Society of Tobacco Science with the technical assistance by CTRI and Tobacco Board at CTRI from 7-12th September, 1987. Sri K. S. N. Murthy, Head, Division of Ag. Chemistry & Soil Science was the Course Co-ordinator. The main objective is to impart intensive practical training to the field personnel in collection and analysis of soil, water and leaf samples, leaf quality evaluation, soil fertility evaluation and to suggest suitable fertilizer recommendations. The participants are from Tobacco Board, M/s. Golden Tobacco Company, M/s. Vazir Sultan Tobacco Industries and M/s. Godfrey Philips (India) Limited. The Workshop was inaugurated by Sri P. P. Williams, Chairman, Tobacco Board on 7-9-1987 and Dr. M. S. Chari, Director and President ISTS presided over the function.



Quinquennial Review Team's Visit :

The Valedictory function of the Mini Workshop was held at 3-00 P. M. on 12-9-1987. Dr. I. V. Subba Rao, Associate Director of Research, APAU, LAM farm Guntur was the Chief Guest.

A farmers' meet was organized in collaboration with SPIC Co., at West Regulagunta village on 4th September, 1987. Dr. M. S. Chari, Director distributed minikits like tobacco seeds, vegetable seeds, coconut plants and fertilizers to the tribal people in the adopted village under the tribal Community Development Programme.



Dr. M. S. Chari giving concluding remarks at the Valedictory function of Mini Workshop.

RESEARCH HIGHLIGHTS

New virus disease on Burley tobacco is transmitted by aphid vectors *Myzus persicae* and *Aphis gossypii* and also sap transmitted. The virus resemble a strain of potato virus Y.

Screening for TMV resistance showed that *N. tabacum* cultivars Va 770, Vamorr 48, Vamorr 50, MRS-1, MRS-2, MRS-3, PMR Burley 21, Havana 423 and DG. 3 showed typical *glutinosa* type of resistance.

Two sprays of Carbendazim 50% @ 0.03% or Thiophanate methyl (Topsin M) @ 0.05% gave 80-90% control of leaf spots in Burley tobacco nursery.

For the control of leaf blight and black shank in nursery, two sprays of Foltaf 80 WP @ 0.15% or a combination of Blitox 80 WP @ 0.1% plus Foltaf @ 0.1% was found highly promising.

Soil fumigation of Durofume @ 15 ml/M² not only controlled the root knot and weeds but was found effective upto one year nursery conditions in Rajahmundry.

Monitoring survival of *Alternaria* sp. causing brown spot disease in Karnataka revealed that the pathogen survived in dried stalk and leaf trash of FCV and bidi tobacco indicating the necessity of clearing plant material from field after cropping as a control measure.

Air-curing of primed leaf, though a slow process, is superior in quality as compared to sun-curing and stalk harvesting of chewing tobacco under Bihar conditions.

All the vigorous changes on chewing tobacco of Bihar in chemical composition take place during the first 2-3 months of fermentation with mild or no change. It is desirable to dispose of the tobacco 3 months after fermentation for human consumption.

Maize-chewing tobacco-blackgram sequence under multiple cropping in one year cycle gives maximum economic returns over fallow-tobacco-fallow practice under North Bihar conditions.

Skip-furrow is found as the most efficient method of irrigation for chewing tobacco grown in Bihar.

APPOINTMENTS

Sri N. Ayyappa Naidu, S. S. Gr. I, CTRI, Rajahmundry, has been appointed to the post of Jeep Driver at CTRI Research Station, Guntur w. e. f. 13-8-1987.

Sri P. Venkata Ramana, has been appointed to the post of Superintendent (A&A) on deputation at CTRI, Rajahmundry w. e. f. 19-8-1987.

Dr. P. V. V. S. Sivarao has been appointed to the post of Tech. T-4 (Animal Science) at KVK of CTRI, Rajahmundry w. e. f. 22-8-1987.

Smt. P. V. S. Bharati, has been appointed to the post of Steno Gr. I at CTRI, Rajahmundry w. e. f. 27-8-1987.



A tribal farmer receiving coconut sapling from Dr. M.S. Chari, Director, Tobacco Research.

PROMOTIONS

Sri T. Narasimha Rao, Tech. T-6 (Instt. Engineer), CTRI, Rajahmundry has been promoted to the post of Tech. T-7 w. e. f. 1-7-1987.

Sri D. Venkateswara Rao, S. S. Gr. III, CTRI, Rajahmundry has been promoted to the post of S. S. Gr. IV, w. e. f. 31-7-1987,

Sri T. Sribhasyam, S. S. Gr. III, CTRI, Rajahmundry has been promoted to the post of S. S. Gr. IV, w. e. f. 31-7-1987.

Sri P. Ramana Rao, S. S. Gr. III, Rajahmundry has been promoted to the post of S. S. Gr. IV, w. e. f. 31-7-1987.

Sri A. Andy, S. S. Gr. IV, CTRI, Rajahmundry has been promoted to the post of Tractor Driver (Auxiliary) at CTRI Research Station, Hunsur, w. e. f. 1-7-1987.

Sri I. Venkataswamy, S. S. Gr. II, CTRI, Rajahmundry has been promoted to the post of S. S. Gr. III, w. e. f. 1-8-1987.

Sri Chinnappa, S. S. Gr. II, CTRI Research Station, Hunsur has been promoted to the post of S. S. Gr. III w. e. f. 3-8-1987.

Sri Ramsagar Roy, S.S. Gr. II, CTRI Research Station, Pusa has been promoted to the post of S. S. Gr. III, w. e. f. 5-8-1987.

Sri Sitambar Jha, S. S. Gr. II, CTRI Research Station, Pusa has been promoted to the post of S. S. Gr. III, w. e. f. 5-8-1987.

Sri A. Surya Rao, S. S. Gr. II, CTRI Rajahmundry has been promoted to the post of S. S. Gr. III w. e. f. 10-8-1987.

Sri T. Gangaraju, S. S. Gr. II, CTRI, Rajahmundry has been promoted to the post of S. S. Gr. III w. e. f. 10-8-1987.

Sri Baleswara Mahto, S. S. Gr. II, CTRI Research Station, Pusa been promoted to the post of S. S. Gr. III, w. e. f. 14-8-1987.

TRANSFERS

Dr. R. Lakshminarayana, Scientist Gr. S - 2 has been transferred from CTRI, Rajahmundry to CTRI Research Station, Jeelugumilli as Officer - in - Charge, w. e. f. 3-7-1987.

Sri D. Ramachandram, Scientist Gr. S - 1 has been transferred from CTRI, Rajahmundry to WBTRC, Jeddangi w. e. f. 9-7-1987.

Sri Nakka Prabhakararao, Tech-5 has been transferred from CTRI Research Station, Guntur to CTRI, Rajahmundry as Seed Production Officer w. e. f. 13-7-1987.

Sri Neetigonda Prabhakara Rao, Tech. T-4 has been transferred from CTRI Farm, Rajahmundry to CTRI Research Station, Jeelugumilli w. e. f. 13-7-1987.

Sri E. Gandhi, S. S. Gr. I has been transferred from CTRI Rajahmundry to CTRI Research Station, Jeelugumilli w. e. f. 13-7-1987.

Sri Kamuju Satyanarayana, Tech. T-1 has been transferred from CTRI Research Station, Hunsur to CTRI Rajahmundry w. e. f. 17-7-1987.

Sri C. B. Sarma, Tech. T-5 has been transferred from CTRI Research Station, Vedasandur to CTRI Research Station, Guntur w. e. f. 4-7-1987.

Sri P. Neelakantam, Tech. T-1 has been transferred from CTRI Research Station, Kandukur to CTRI Rajahmundry w. e. f. 6-8-1987.

Sri S. S. L. Dwivedi, Scientist Gr. S-2 has been transferred from CTRI Research Station, Pusa to CTRI Research Station, Kandukur w. e. f. 11-8-1987.

Sri S. Surya Rao, S. S. Gr. III has been transferred from CTRI, Rajahmundry to CTRI Research Station, Jeelugumilli, w. e. f. 18-8-1987.

Sri J. Sivasai, Tech. T-1 has been transferred from CTRI, Rajahmundry to CTRI Research Station, Jeelugumilli w. e. f. 18-8-1987.

Sri V. K. Chaturvedi, Scientist Gr.S-1 has been transferred from CTRI Research Station, Dinhat to IARI Research Station, Hyderabad w. e. f. 4-9-1987.

RETIREMENTS

The following Staff members of the Institute and Research Stations retired from the Council's service on attaining the age of superannuation and on voluntary retirement.

Sri M. P. Ramaswamy, Tech. T.1.3 CTRI Research Station, Vendasandur	....	31-7-1987
Sri Ch. Narasimha Rao, Tech. T-1-3 CTRI Research Station, Guntur	....	31-7-1987
Sri A. S. R. Murthy, Tech. T-5 (Photographer), CTRI Research Station, Hunsur	....	31-8-1987
Sri Shankar Chowdary, S. S. Gr. III CTRI Research Station, Pusa	—	31-8-1987
Sri A. Sivarama Krishna, Tech. T. I. 3 CTRI Research Station, Vendasandur (Retired voluntarily)	....	1-9-1987
Sri B. G. Joshi, Scientist Gr. S-3 CTRI, Rajahmundry	....	30-9-1987

LIST OF PUBLICATIONS

Herbicidal control of weeds in monsoon grown burly tobacco.

Raghaviah, C. V. and Subbarao, R.
Indian J Agron 31 (4) : 331-4, 1986.

Studies on integrated weed management in tobacco seeds.

Raghaviah, C. V. and Sannibabu, M.
Indian J Agron 31 (4) : 335-7, 1986

Relative efficacy of neem seed kernel suspension some synthetic pyrethroids and insecticides against *Spodoptera litura* F. in tobacco nurseries.

Ramprasad, G., Sitaramaiah, S., Joshi, B. G. and Nageswararao, S.
Indian J Plant Prot. 15 (2) : 190-2, 1987.

Effect of Orobanche on the morphological characters of tobacco.

Murthy, N. S. and Nagarajan, K.
Indian J Weed Sci 18 (2) : 85-9, 1986.

A non-parametric approach to ANOVA
Subba Rao, D. V. and Subrahmanyam, M.
J Indian Soc Ag Statistics 39 (2) : 148-59, 1987.

Influence of mulching, plant spacing, nitrogen and topping levels on yield and quality of FCV tobacco
Trlpathi, S. N., Rao, M. U., Murthy N.S. and Murthy, G. S. R.

Indian Tob J 19 (2) : 7-12, 1987.

Relative efficacy of suckericides on yield and quality of *Motihari* tobacco (*N. rustica* L.)

Singh, B. L. and Tripathi, S. N.

Pesticides 21 (10) : 31-3, 1987.

Preliminary observations on interaction of root-knot nematode and potash in flue-cured tobacco.

Ramakrishnayya, B. V. and Hussaini, S. S.

Indian J Nematology 17 (1) : 27.30, 1987.

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