



CTRI News Letter

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MAJOR EVENTS

The R & D Workshop on flue-cured Virginia tobacco in Karnataka sponsored jointly by the Ministry of Agriculture, Govt. of India and Indian Council of Agricultural Research was organised at the CTRI Research Station, Hunsur (Karnataka) on 6-7th May, 1985. Sri A.N Singh, Jt. Commissioner (CC), Ministry of Agriculture, inaugurated the workshop while Dr. N.C. Gopalachari, Director, Central Tobacco Research Institute presided over the function and Dr. C. Kempanna, Asst. Director, General (CC), Indian Council of Agricultural Research delivered the key-note address. Papers were presented on cultural, varietal plant protection and trade & commerce matters in various technical sessions. Project Co-ordinator AICRP on tobacco, Scientists from University of Agricultural Sciences, Bangalore and officials from Directorate of Tobacco Development and Tobacco Board, Karnataka Department of Agriculture and R & D of tobacco

trade have also participated in the workshop. Recommendations for inclusion in improved package of practices and adoption by extension workers were approved and suggestions for improving production technology were considered at the plenary session presided over by Sri A. N. Singh, Jt Commissioner (CC) on the concluding day.

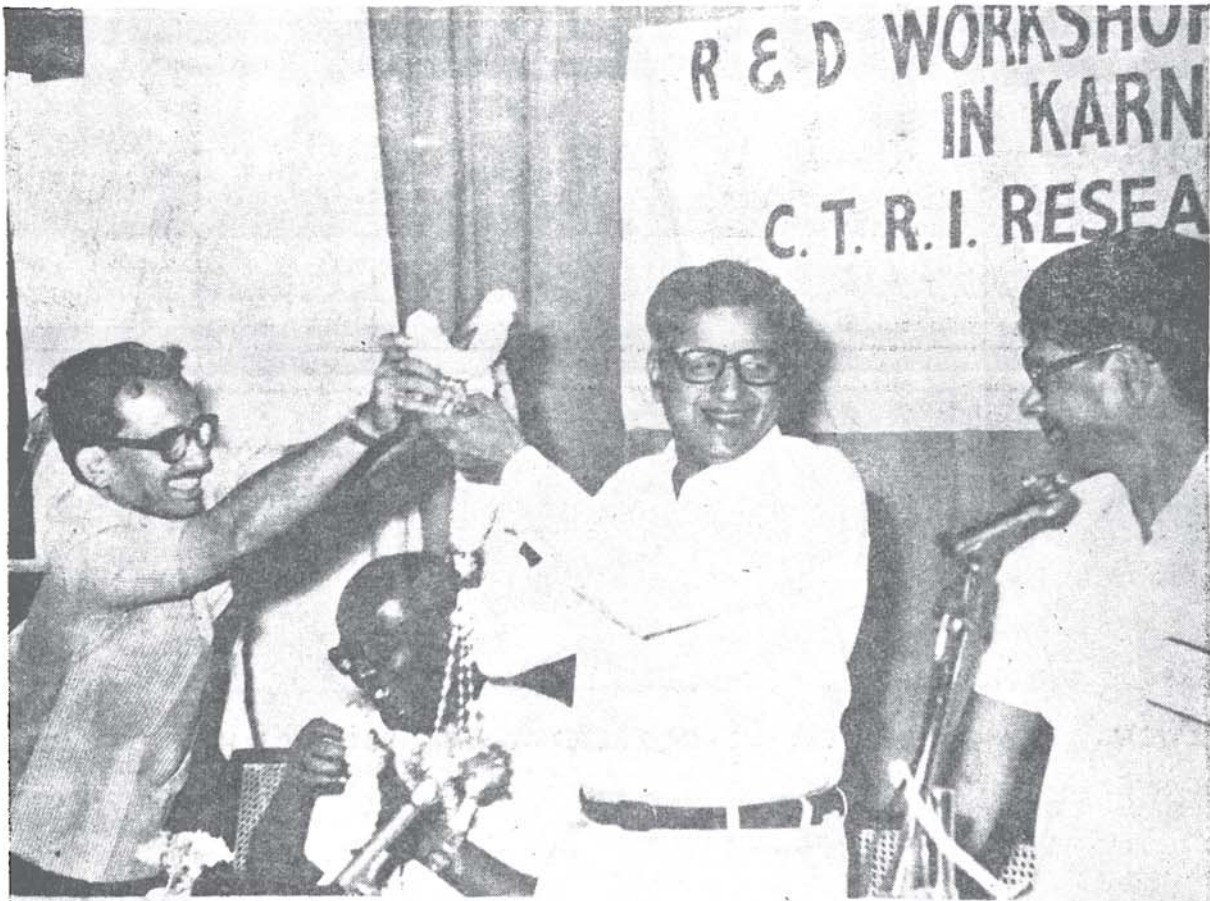
RESEARCH HIGHLIGHTS

CTRI Rajahmundry :

The F₁ of the cross DWFC X Godavari Spl. was found resistant to caterpillar.

Mutants MDC 36, MDC 39 and Cy 82 were tested in bulk plots and found to possess very high yield potential.

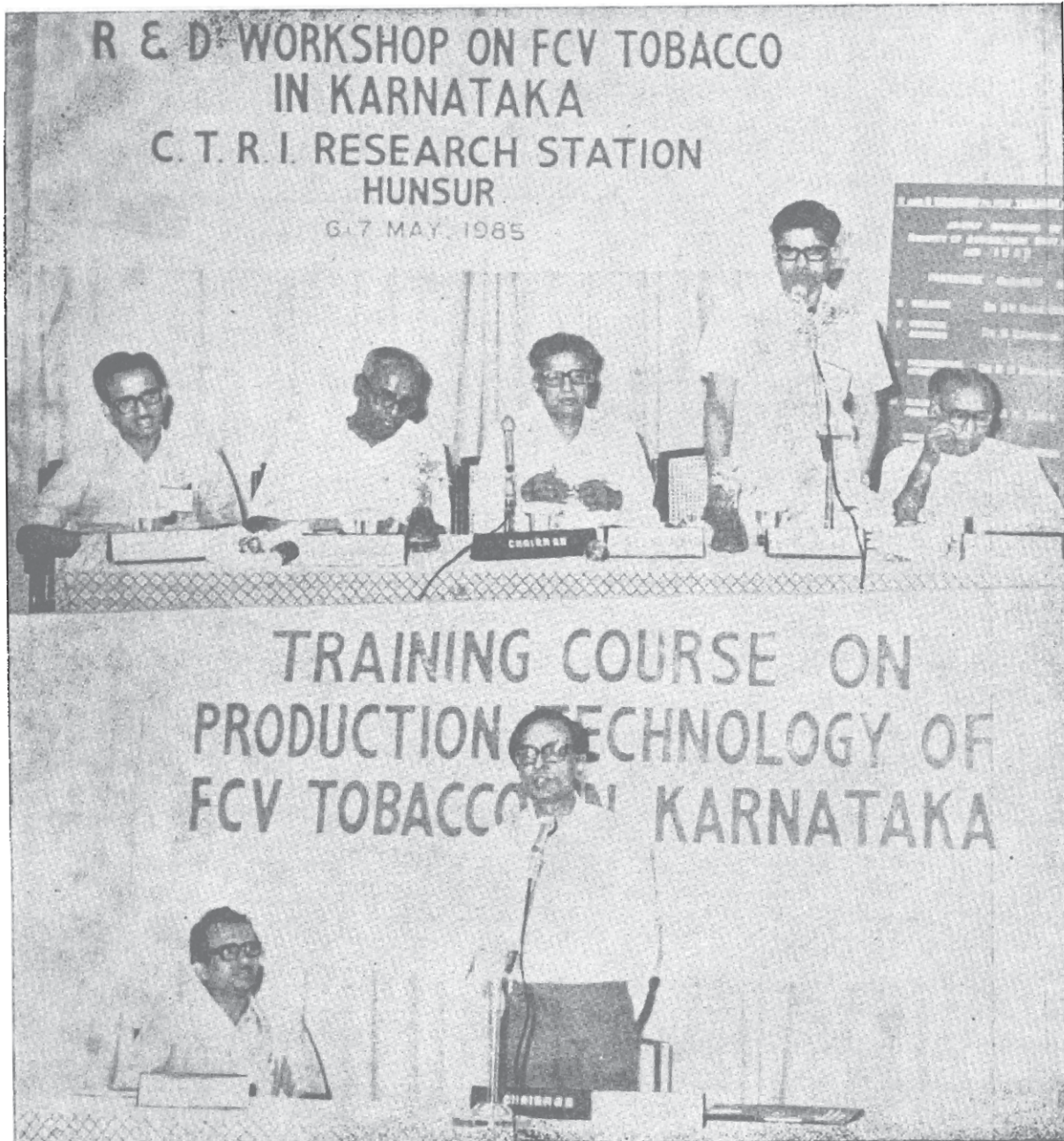
R & D WORKSHOP



Dr. N. C. Gopalachari, Director, CTRI being garlanded during the inaugural session of R & D workshop by Dr. B. V. Ramakrishnayya, Officer-in-Charge, CTRI Research Station, Hunsur. (Top)

Director examining quality of cured leaf of the newly evolved lines at Hunsur. (Bottom)

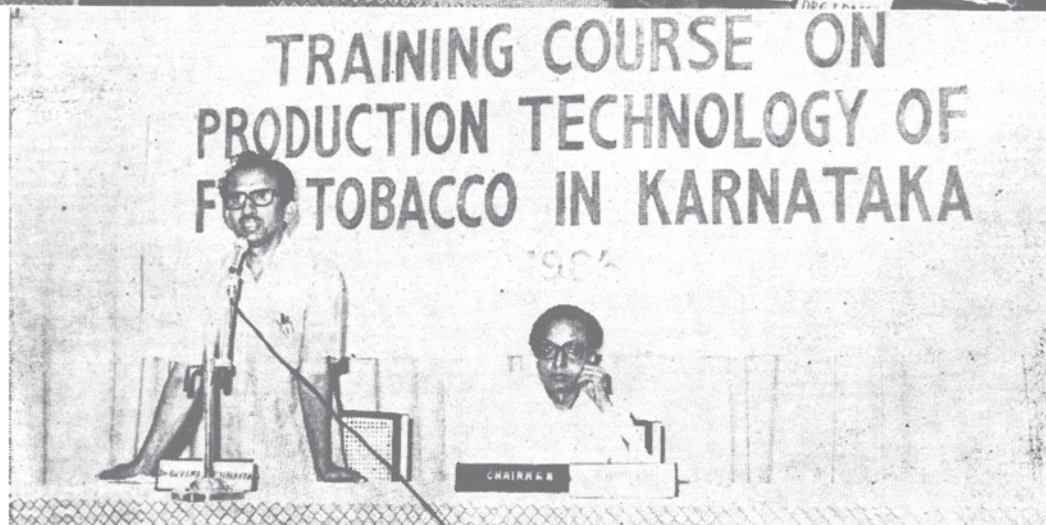
R & D WORKSHOP



Inaugural address by Sri A. N. Singh, Jt. Commissioner (CC) Department of Agriculture & Cooperation, Ministry of Agriculture & Rural Development.

Sri B. N. Betkerur, Director (Auctions) Tobacco Board delivering the inaugural address.

R & D WORKSHOP



Welcome address by Dr. B. V. Ramakrishna^{yā}, Officer-in-Charge, CTRI Research Station, HUNSUR (Top & Middle)

Practical session to the trainees (Bottom)

R & D WORKSHOP



Presidential address by Dr. N. C. Gopalachari, Director. (Top)

Key-note address by Dr. C. Kempanna, D. D. G. (Middle)

Dr. G. J. Patel, Sri A. N. Singh, Dr. N. C. Gopalachari & Dr. C. Kempanna. (Bottom)

Flowering was induced in a new species *N. africana*. Two new interspecific hybrids, viz. *N. benthamiana* X *N. tabacum* and *N. glutinosa* X *N. megalosiphon* were obtained *in vitro* culture and their interspecific nature was confirmed.

Parallel cropping in flue-cured tobacco with redgram and bengalgram in 1 : 1 or 2 : 1 proportions yielded leaf tobacco comparable with sole tobacco cropping. An additional yield of 3.91 Q/ha bengalgram and 5.57 Q/ha of redgram was obtained from 1 : 1 cropping systems. While in 2 : 1 proportion, the yields of bengalgram and redgram were 5.51 Q/ha and 5.33 Q/ha respectively. Application of 20 kg. N/ha was found optimum for tobacco under legume intercropping.

CTRI Research Station, Guntur :

Natu tobacco line II-409 has a better yielding potentiality coupled with quality than 'WAF' in Kurnool district.

FCV tobacco varieties/lines 754-2-1 and G 11/1, gave maximum yields when planted at 70cm x 50cm with 40 Kg N/ha in black cotton soils of Guntur district.

CTRI Research Station, Kandukur :

Ridge method of planting or flat planting followed by ridging was found superior to flat planting alone for the crop planted in October. A nitrogen dose of 35 kg/ha was observed optimum for Southern light soils crop.

Maximum yields were recorded at a population of 28,543 plants/ha, with 40-80-80 kg N-P₂O₅-K₂O/ha respectively and topped at 20 leaves level under Southern light soils condition.

CTRI Research Station, Vendasandur :

In the studies on post harvest technology, stringing tobacco for sun-curing on poles 15 Cms. and 20 Cms. apart gave a higher yield as compared to the normal method of stringing. A reduction in the cost of production by Rs. 240/- per ha is ensured by this method as engaging labourers on alternate days to turn the tobacco on poles is completely done away in this new method.

Application of Oxyfluorfen @ 0.5 L/ha not only controlled the weeds but also improved the yield over normal practice with a net profit of Rs. 630/- per ha.

CTRI Research Station, Hunsur :

Very low concentration of 0.025% of both Bavistin and Topsin can effectively reduce frog-eye spot incidence on tobacco in Karnataka.

High topping at 14 leaves reduced significantly the incidence and severity of bacterial leaf spot disease on Bidi tobacco.

CTRI Research Station, Pusa :

For early maturing chewing tobacco variety 'Prabha' in Bihar, 90cm X 60cm plant spacing and 160 kg N/ha for irrigated conditions and 75cm x 90cm spacing and 120 kg N/ha for rainfed conditions appeared better.

Rabbing in nursery gave significantly more number of transplantable seedlings and weed control than the use of polythene mulch, basaline or hand weeding in Bihar.

CTRI Research Station, Dinhat :

120 Kg N/ha with 75cm x 60cm spacing and 180 Kg N/ha with 75cm x 45cm spacing were found to produce best quality leaves of cigar wrapper tobacco (S-5 variety) of West Bengal.

Lab-to-Land Programme :

The ICAR Review team for Lab to Land Programme headed by Dr. L. M. Jaswani alongwith Cr. H. N. Patel, Dr. S. K. Raheja and Dr. B. N. Choudhary visited Lab-to-Land activities of the CTRI Research Station, Pusa and recorded the following remarks.

"ICAR review team for Lab-to-Land Programme visited CTRI Regional Station Pusa and the LLP villages of Phase I and Phase II, The team is happy to see the tobacco production technology and tobacco crop based cropping system and demonstrated in the adopted villages successfully. The Scientists of the station have taken keen interest in the Lab-to-Land Programme besides their pre-occupation in their research programmes".

Dr. G. B. Singh, DDG (S.A.E), ICAR visited the Research Station, Pusa and made the following remarks in the visitors book.

"I am delighted to visit Pusa centre of CTRI today. The group of scientists seems to be very well organised. The centre's Laboratories, Library and other facilities are very well maintained. The centre has made significant contributions towards the cropping pattern involving tobacco. I congratulate the scientists and all other staff for excellent team work".

Deputations Abroad :

Shri A. B. Sastry, Scientist S-3 (Plant Breeding), Division of Genetics & Plant Breeding, CTRI, Rajahmundry, deputed to Bulgaria under Science and Technology Programme of Cooperation between CSIR (India) and the 'State Committee for the Technical Progress of Bulgaria' for a period of nine weeks from 9-6-85 to 15-8-85.

Honours & Awards :

Dr C.V.S.S.V Gopalakrishna, Scientist S-1, Pesticide Residue Unit, Central Tobacco Research Institute, Rajahmundry has been elected as a fellow member of Institute of Chemists (India) and Indian Chemical Society.

Sri A. Hanumantharao, Technician T-5, Quality Evaluation Unit, Central Tobacco Research Institute, Rajahmundry has been elected as a fellow member for the Indian Chemical Society, Calcutta.

Trainees & Visitors**CTRI Research Station, Hunsur :**

Twentyfive agricultural assistants from Rural Development Training Centre, Kudige attended for training on tobacco cultivation on 16th May, 1985.

One depute from Andhra Pradesh State Seed Corporation, Guntur attended for nursery management training from 21-28 May, 1985.

The Training Course on Production Technology of flue-cured Virginia tobacco in Karnataka sponsored by Tobacco Board was organised from 17-22 June, 1985 and the first phase dealing with cultivation aspects was completed during the one week duration.

From the eight auction platforms of Karnataka, 26 Auction Grading Inspectors were deputed for training by Tobacco Board.

Dr. C. Kempanna, Asst. Director General, I.C.A.R. New Delhi.

Sri A. N. Singh, Jt. Commissioner (CC), Ministry of Agriculture, and Rural Development, New Delhi.

Dr. G. J. Patel, Project Coordinator, AICRP on Tobacco, Anand.

Sri B. N. Betkerur, I. A. S., Director (Auctions), Tobacco Board, Bangalore.

Sri T.D. Prasada Rao, Member, Research & Development, ITC Ltd., ILTD Division, Rajahmundry.

Sri N. Rajendran, Dy. Director, Directorate of Tobacco Development, Madras.

Sri Ramdas Kamath, Jt. Director of Agriculture, Mysore.

Sri C. Jayatsen, Dy. Director of Agriculture (Tobacco Development), Bangalore.

Sri M. Swamy, Asst. Director of Agriculture, Hunsur.

Dr. M. V. Nagaraja Setty, Chief Scientist (AICRP on Tobacco), Agricultural Research Station, Navile, Shimoga

Sri N. K. Krishna Prasad, Assoc. Professor (Entomology) NARP, Shimoga.

Sri H. C. Linge Gowda, Leaf Manager, M/s. Mysore Tobacco Co. Ltd Bangalore

CTRI Research Station, Pusa :

On the request of the Directorate of Tobacco Development, Madras and the Directorate of Agriculture, Bihar Government, 10 officials of Tobacco Development, Muzaffarpur were given training in the 1st Phase of training programme covering nursery raising of tobacco crop from 24-30th June, 1985.

A group meeting of the Indian Society of Agronomy for the Dholi-Pusa chapter campus of Agronomy was held at the Research Station on 21-6-85. Dr. G. B. Singh acting DDG. (SAE) ICAR & the President and Dr. R. K. Rajput, Vice-President and the Executive Chairman of the Society addressed the members and discussed the problems related to Agronomical research and suggested the methods of improvement of research work in Agronomy.

Dr. L. M. Jeswani, Dr. H. N. Patel, Dr. S. K. Rahaja and Dr. B. N. Chaudhary, ICAR., New Delhi.

Dr. G. B. Singh. acting D. D. G. (SAE), I. C. A. R. New Delhi.

APPOINTMENTS & PROMOTIONS

Sri K. Suryachandra Rao, S. S. Gr. II has been appointed as T-1 at CTRI Research Station, Pusa w. e. f. 3-5-1985.

Sri Aji Parthasarathy, Tech T-I-3, at CTRI Research Station, Hunsur has been appointed as T-II-3, at CTRI Research Station, Hunsur w. e. f. 27-4-1985.

Sri V. Krishna Rao, Superintendent has been appointed as A. A. O. at CTRI, Rajahmundry w.e.f. 14-5-1985.

Sri P. V. Atchutaramanna, Steno Gr. I has been appointed as Superintendent at CTRI, Rajahmundry, w. e. f. 15-5-1985.

Smt. D. Lakshamma has been appointed as S. S. Gr. I (Beldar) at CTRI Research Station, Kandukur w. e. f. 10-4-85.

The following supporting personnel have been promoted to their next higher grade with effect from the dates noted against each.

Sri R. Krishna Murthy, S. S. Gr. III to S. S. Gr. IV w. e. f. 22-5-85.

Sri M. Sreeramulu, S. S. Gr. III to S. S. Gr. IV w.e.f. 21-5-1985

Sri Andy, S. S. Gr. III to S. S. Gr. IV w e f. 20-5-1985.

Sri R. Sreenivasan, S. S. Gr. III to S. S. Gr. IV w e.f. 20-5-1985.

Sri Pal Bahadur, S. S. Gr. II to S. S. Gr. III w. e. f. 12-6-1985.

Sri K. Satyanarayana, S.S. Gr. II to S. S. Gr. III w e.f. 20-5-85.

Sri R. Balaswamy, S. S. Gr. II to S. S. Gr. III w. e. f. 12-6-85.

Sri Sheoiji Mehta, S.S. Gr. II to S. S. Gr. III w. e. f. 15-6-1985

Sri Baleswarkapar, S. S. Gr. II to S. S. Gr. III w. e. f. 14-6-85

Sri N. G. Barman, S. S. Gr. II to S. S. Gr. III w. e. f. 29-5-85

Sri V. Suryanarayana Murthy, S. S. Gr. I to S. S. Gr. II w. e. f. 20-5-85

Sri A. B. V. V. Satyanarayana, S. S. Gr. I to S. S. Gr. II w. e. f. 20-5-85

Sri P. Raju, S. S. Gr. I to S. S. Gr. II w. e. f. 23-5-85

Retirements :

Sri J. B. Sarma, Tech. T-1-3, CTRI, Rajahmundry retired w. e. f. 31-5-1985 from the Council's service.

Sri Y. Satniraju, S. S. Gr. III, CTRI, Rajahmundry retired w. e. f. 30-4-1985 from the Council's service.

Sri S. Nageswarao, S. S. Gr. III, CTRI, Rajahmundry retired from the Council's service w. e. f. 30-6-1985.

Resignations :

Sri M. Dayananda Rao, Jr. Clerk has resigned from Council's service w. e. f. 18-4-1985.

Sri U. Narasinga Rao, Jr. Clerk has resigned from Council's service w. e. f. 29-6-1985.

Transfers :

Sri C. V. V. Satyanarayana Murthy, Tech. T-4, CTRI, Rajahmundry, transferred to CTRI Research Station, Hunsur w. e. f. 9-5-1985.

Sri J. Sarangapani, Superintendent, CTRI, Rajahmundry, transferred to CTRI Research Station, Kandukur w. e. f. 24-6-1985.

DEATH

Sri M. Chennu, S. S. Gr. III, CTRI Research Station, Guntur who was under suspension, expired on 30-6-1985.

PAPERS PUBLISHED

Response of VFC tobacco to Nitrogen under different irrigation schedules in Northern light soils of Andhra Pradesh.

Ramachandram, D. *et al*

Tob. Res. 10 (2) : 150-155, 1984.

Effect of Nitrogen levels and irrigation schedules on the chemical and physical quality characteristics of VFC tobacco grown in Northern light soils of Andhra Pradesh.

Ramachandram, D. *et al*

Tob. Res. 10 (2) : 156-161, 1984.

Attractiveness of *Spodoptera litura* F. male moths to synthetic pheromone mixture and virgin females under field conditions.

Rao, K. N. and Jagadish Chandra, I.

Tob. Res. 10 (2) : 199-201, 1984.

Effect of height of pheromone trap on the capture of *Spodoptera litura* moths in tobacco nurseries.

Krishnananda, N. and Satyanarayana, S. V. V.

Phytoparasitica 13 (1) : 59-62, 1985.

Virus diseases of tobacco in India.

Nagarajan, K. and Reddy, T. S. N.

Tob. News 7 (6) : 1-5, 1984.

Nutrient composition of tobacco leaf and its relation to quality under different crop sequences.

Prasada Rao, J. A. V. *et al*

Tob. Res. 10 (2) : 141-146, 1984.

Available nitrogen status of flue-cured tobacco soils of Andhra Pradesh.

Krishnamurthy, V. *et al*

Tob. Res. 10 (2) : 182-188, 1984.

Potassium deficiency in the field crop of tobacco in the Northern light soils of Andhra Pradesh. (Telugu)

Krishnamurthy, V. *et al*

Annadata 16 (4) : 19-21, 1984.

A note on the generation of carbonyl compounds during curing and ageing of flue-cured tobacco.

Prabhu, S. R. *et al*

Tob. Res. 10 (2) : 202-204, 1984.

Briquettes from organic wastes as fuel for curing Virginia tobacco.

Gopalachari, N. C.

Changing Villages-7 (3), 1985.

Comparative performance of chewing tobacco (*Nicotiana tabacum* L.) in various cropping patterns under rainfed conditions of North Bihar.

Sinha, R; Dwivedi, S.S.L. and Pandey, A. K

Indian J. Agronomy 29 (1) : 61-67, 1984.

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) : 117-19, 1985.

Relative performance of different combinations of organic manures and inorganic fertilizers in chewing tobacco.

Pandey, A. K. and Sinha, R.

Tob. Res. 10 (2) : 113-118, 1984.

Response of chewing tobacco to nitrogenous fertilizers and organic manures.

Dwivedi, S. S. L., Sinha, R. and Pandey, A. K.

Tob. Res. 10 (2) : 118-122, 1984.

Growth and yield pattern of hookah tobacco (*Nicotiana rustica* L.) under different dates of planting and topping levels.

Sinha, R. *et al*

Tob. Res. 10 (2) : 123-131, 1984.

Fertilizer requirements for different yield targets of chewing tobacco based on soil test values in a calcareous soil of Bihar.

Prasad, B; Sinha, R. and Prasad, J.

Tob. Res. 10 (2) : 176-181, 1984.

Physiology of growth in cigar wrapper tobacco.

Tripathi, S. N. and Bhattachary, B.

Indian J. Agric. Sci. 55 (5) : 342-6, 1985.

Metroglyph analysis of morphological variation in cigar wrapper tobacco.

Dobhal, V. K.

Indian J. Agric. Sci. 55 (5) : 368-70, 1985.

Effect of diseased tobacco plants on development of larvae of leaf eating caterpillar, *Spodoptera litura* F.

Chavan, V. M.

Tob. Res. 10 (2) : 193-195, 1984.

Preliminary observations on the susceptibility of some cigar wrapper tobacco varieties to green peach Aphid, *Myzus persicae* sulz.

Chavan, V. M.

Tob. Res. 10 (2) : 196-198, 1984.

Stability parameters for cigar filler tobacco.

Naskar, S. K. *et al*

Tob. Res. 10 (2) : 189-192, 1984.

Stability parameters in Jati tobacco (*N. tabacum* L.)

Naskar S. K. *et al*

Tob. Res. 10 (2) : 136-140, 1984.

Efficacy of durofume, rabbing and aldicarb against root-knot nematode and weeds in tobacco nurseries.

Hussaini, S. S.

Indian J. Nematology 15 (2) : 88-92, 1985.

Edited & Compiled by M. C. M. Reddy & A. Haranath.

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