



CTRI News Letter

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

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MAJOR EVENTS

CTRI RESEARCH STATION AT JEELUGUMILLI



Sri P. P. Williams, Chairman, Tobacco Board, Dr. M. V. Rao, Special Director General ICAR, Dr. M. S. Chari, Director Tobacco Research and Dr. K. V. Satyanarayana, Officer-in-charge, CTRI Research Station, Jeelugumilli after laying the foundation stone.

A new CTRI Research Station has been started at Jeelugumilli in West Godavari District, AP as the Virginia tobacco grown in this NLS area had good demand in the international market. Govt. of Andhra Pradesh gave 34.48 ac. of land on lease to ICAR/CTRI for starting the station. Dr. M. V. Rao, Special Director-General, Indian Council of Agric. Res., New Delhi laid the foundation



Inaugural address by Dr. M. V. Rao, Special Director General, ICAR at the NLS Res. Station, Jeelugumilli.

stone for this Station's building at Jeelugumilli on 22-5-88. Shri P.P. Williams, Chairman, Tobacco Board presided over the meeting while Dr. M. S. Chari, Director welcomed the distinguished guests. Dr. M. V. Rao, Special Director-General, I.C.A.R. while speaking on this occasion, stressed need to increase the yields of tobacco from the present level of 1000-1100 kg/ha to 1500-2000 kg/ha for better remuneration to the farmers. He emphasised the need to bring out disease and pest resistant varieties to ward-off the chemical residues of pesticides.

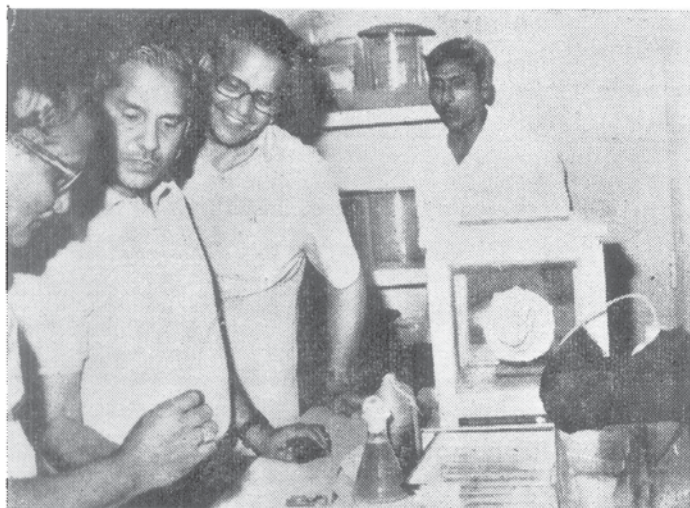
He advised the farmers to take up other remunerative crops along with tobacco. Sri P. P. Williams outlined the efforts made by the Tobacco Board in contacting the trade, manufacturers, exporters and farmers in stabilizing the price and production. The auction system implemented by the Board for marketing flue-cured tobacco is an instant success and became dear to the farming community.

Research Highlights

- * Durofume in combination with either Ridomil ZM 250 FW, or Apron 35 SD or Bordeaux mixture was effective in control of damping off and black shank diseases besides its effect on control of weeds and nematodes.
- * There is an improvement in yield and quality of FCV tobacco due to the application of poultry manure compared with FYM.
- * A caterpillar resistant variety Natu tobacco NC. 62 has recorded the highest cured and medium grade leaf.
- * Normal date of planting on 20th October recorded highest yield and lesser leaf curl and mosaic incidence as against early and late planting in Guntur.
- * Planting of Motihari tobacco varieties viz. Hemti, Bitri, DD-437, T-238 and ITDM-1 in the third week of November than first week showed less brown spot index and higher cured yield without sacrificing the quality. Variety HDM-1 showed minimum brown spot index with highest yield potential when compared with Hemti, Bitri, DD-437 and T-238. Varieties C-304, Manda, Rangpur & Tessala were identified as having higher field tolerance against brown spot disease.
- * Double application of neem oil emulsion 35% or neem oil 35% combined with N.A.A. 1.5% successfully controlled the suckers in chewing tobacco under North Bihar conditions.
- * Amongst the sources of potassic fertilizers for the yield and quality of chewing tobacco muriate of potash was preferable to potassium sulphate, syngonite and dung ash.
- * It was observed that chewing tobacco of Samastipur contained highest nicotine content in their leaves which was followed by Muzaffarpur and Vaishali tobacco. Nicotine decreased from grade I to grade IV in Samastipur and Muzaffarpur districts and from Grade I to Grade III in Vaishali district.
- * Chewing tobacco HP. 76-1, a promising line proved its superiority in farmers field in second year of trial.
- * Ridge planting and irrigation with 50, 100 and 75 percent of water at establishment, grand growth, and maturity period of chewing tobacco crop resulted in a saving of 120 mm of irrigation water (equivalent of 5 irrigations) besides producing comparable tobacco yield with other treatments.
- * The new hybrid variety HV. 81.3 when planted at 75 X 75 cm spacing with the application of 100 kg nitrogen per hectare and topping at 12 leaves could produce 9 and 24 percent increase in yield over HV. 80-4 and Bhagyalakshmi (control) varieties respectively.
- * In the mutation trial five selections of chewing tobacco-HV. 86-1 to HV 86-5 yielded more than 4400 kg cured leaf per hectare for the second year in succession and the increase in cured leaf ranges from 5 to 8% over their parents.
- * Cigar filler tobacco lines HV. 85-4, HV 85-5 and HV 85-6 fared well in Karuvazhai tract.

Other Activities

- * Under the collaborative programme with Tobacco Board Platform zones 3,5 and 7 were adopted by the CTRI Research Station, Hunsur for the transfer of technology and yield and quality improvement.
- * Inter-agency committee of Tobacco Board, CTRI, Directorate of Tobacco Development and ITC, ITD Division, Research Dept. visited FCV tobacco areas of Karnataka and evaluated the progress of R & D programmes.



Dr. M. V. Rao, Special Director General showing keen interest on entomological aspects of research at C. T. R. I., Rajahmundry.



Dr. M. S. Chari, Director explaining to Dr. M. V. Rao, Special Director General in the museum about various aspects of Tobacco Research.

KVK Activities

- * This Kendra conducted 40 training courses and 1138 persons were trained in Agronomy, Animal Sciences, Home Science and rural craft.
- * 30 method demonstrations were organised and as many as 722 farmers have participated. Three result demonstrations were conducted in cereals and groundnut and obtained the yield of 1800 kg/ha and 1202 kg/ha respectively.

- * Sri R. Sudhakar T-4 Rural Crafts gave a Radio talk on ' Graminulaku Chetipanulu ' which was broadcasted on 1-6-88 by All India Radio, Vijayawada.
- * One field day and one agricultural exhibition were arranged and 245 farmers participated.

APPOINTMENTS

1. Sri M. P. Bhagya Kumar, has been appointed to the post of Tech. T-II-3 (Photographer) at CTRI, Rajahmundry with effect from 4-5-88.
2. Smt. N. Manjula has been appointed to the post of Jr. Clerk (Stores), at CTRI Research Station, Veda-sandur, with effect from 11-5 1988.
3. Sri R. Muthuswamy, has been appointed to the post of S. S Gr. I (Beldar) at CTRI Research Station, Veda-sandur, with effect from 17-5-1988.
4. Sri Neelakanti Narayana Murthy, has been appointed to the post of Tech. T-1, at CTRI Research Station, Kandukur with effect from 16-6-1988.
5. Sri A. B. V. V. Satyanarayana, has been appointed to the post of Tech. T-1 at CTRI Research Station, Kan-dukur with effect from 16-6-1988.
6. Sri P. Murugan, has been appointed to the post of Tech. T-1 at CTRI Research Station. Hunsur, with effect from 20-6-1988.
7. Sri B. Raja Rao, has been appointed to the post of Tech. T-1 at CTRI Research Station, Jeejugumilli with effect from 21-6-88.

PROMOTIONS

1. Sri G. Narasimha Rao, Tech. T-2 has been promoted to the post of Tech. T-1-3 at CTRI, Rajahmundry with effect from 1-1-1987.
2. Sri M.V.B. Madhava Rao, Sr. Clerk has been promoted on ad-hoc basis to the post of Assistant at CTRI, Rajahmundry, with effect from 8-4-1988.

3. Sri D. N. Ganguli, S.S. Gr. II has been promoted to the post of S.S. Gr. III at CTRI Research Station, Dinhatra with effect from 30-4-1988.
4. Sri D. N. Barman, S.S. Gr. II, has been promoted to the post of S.S. Gr. III at CTRI Research Station, Dinhatra, with effect from 2-5-1988.
5. Sri Ch. Sreerama Rao, Hindi Assistant has been appointed to the post of Hindi Translator at CTRI, Rajahmundry with effect from 16-5-1988.
6. Sri Pasupuleti Raju, S.S. Gr. I has been promoted to the post of S.S. Gr. II at CTRI, Rajahmundry, with effect from 19-5-1988.
7. Sri K. Subba Rao, S.S. Gr. I has been promoted to the post of S.S. Gr. II at CTRI, Rajahmundry with effect from 20-5-1988.
8. Sri Adapa Satyanarayana, S.S. Gr. I has been promoted to the post of S.S. Gr. II. at CTRI, Rajahmundry with effect from 20-5-1988.
9. Sri P. C. Chowdhary, Jr. Clerk. has been promoted to the post of Sr. Clerk at CTRI Research Station, Pusa, with effect from 23-5-1988
10. Sri A. Venkata Rao, S.S. Gr. II has been promoted to the post of S.S. Gr. III at CTRI, Rajahmundry with effect from 10-6-1988.
11. Sri P. Nookaiah, S.S. Gr. I has been promoted to the post of S.S. Gr. II at CTRI, Rajahmundry, with effect from 17-6-1988.
2. Sri C. B. Sarma, Tech, T-5, has been transferred from CTRI Research Station, Guntur to CTRI, Rajahmundry with effect from 11-4-1988.
3. Sri M. Nageswara Rao, Tech. T-II-3 has been transferred from CTRI Research Station, Guntur to CTRI Research Station, Jaelugumilli, with effect from 14-4-1988.
4. Sri B. Narasimha Rao, Tech. T-5 has been transferred from CTRI Research Station, Kandukur to CTRI, Rajahmundry, with effect from 21-4-1988.
5. Sri S. K. Naidu, Scientist Gr. S-1 has been transferred from CTRI, Rajahmundry to CTRI Research Station, Hunsur, with effect from 30-4-1988.
6. Sri C. V. Raghavaiah, Scientist Gr. S-2 has been transferred from CTRI, Rajahmundry to CTRI Research Station, Veda sandur, with effect from 2-5-1988.
7. Sri I. V. Subba Rao, Tech. T-5 has been transferred from CTRI, Rajahmundry to CTRI Research Station, Kandukur, with effect from 9-5-88.
8. Sri V. Appa Rao, Tech T-1 has been transferred from CTRI Research Station, Kandukur to CTRI, Rajahmundry with effect from 11-5 1988.
9. Sri P. V. Venugopala Rao, Scientist Gr. S-1 has been transferred from CTRI, Rajahmundry to CTRI Research Station, Kandukur, with effect from 12-5-1988.

TRANSFERS :

1. Dr. B. V. Ramakrishnayya, Scientist Gr. S-3 & Officer-in-charge, CTRI Research Station, Hunsur has been transferred to CTRI, Rajahmundry as Head of the Division of Chemistry with effect from 8-4-1988 A. N.
10. Sri K. N. Subrahmanya, Scientist S-1 (Pl. Breeding) has been transferred from CTRI Research Station, Veda sandur to CTRI Research Station, Hunsur and reported for duty on 25-5-1988.

DEPUTATIONS :

1. Sri U. V. Koteswara Rao, ACO, CTRI, Rajahmundry has been relieved from his duties on completion of his deputation period on 6-4-1988 A.N.
2. Sri P. Venkata Ramana, Superintendent (A&A), CTRI, Rajahmundry has been relieved from his duties on completion of his deputation period on 30-6-1988 A.N.

RESIGNATIONS :

Sri R. N. Mishra, Tech. T-4, CTRI Reserch Station, Pusa, resigned from the Council's service with effect from 27-6-1988.

RETIREMENTS :

1. Sri V. Narasimha Rao, Tech. T-I-3, CTRI Research Station, Hunsur retired on invalidation on 2-4-1988.
2. Sri Y. Sreeramulu, S.S. Gr. III, CTRI, Rajahmundry retired on invalidation on 19-4-1988.
3. Sri D. Ch. Raja Rao, Tech. T-7, CTRI, Rajahmundry retired on superannuation on 30-4-1988.
4. Sri T. V. N. Achari, Tech. T-1, CTRI, Rajahmundry retired voluntarily on 1-5-1988.
5. Sri A. V. Subbalah, Tech. T-I-3, CTRI Research Station, Guntur retired on superannuation on 30-6-1988
6. Sri Md. Abbas, Tech. T-I-3, CTRI Research Station, Pusa, retired on superannuation on 30-6-1988.
7. Sri K. Muthuswamy, Tech. T-2 (Driver), CTRI Research Station, Vadasandur, retired on superannuation on 30-6-1988.

**CONFERENCES/SYMPOSIA/SEMINARS/
WORKSHOPS/TRAINING COURSES**

* The following Scientists have participated in the National Seminar on 'Non-virginia tobacco conducted by Directorate of Tobacco Development, Madras and National Co-operative Tobacco Growers Federation Ltd., Anand on 16th and 17th April, 1988 at Anand.

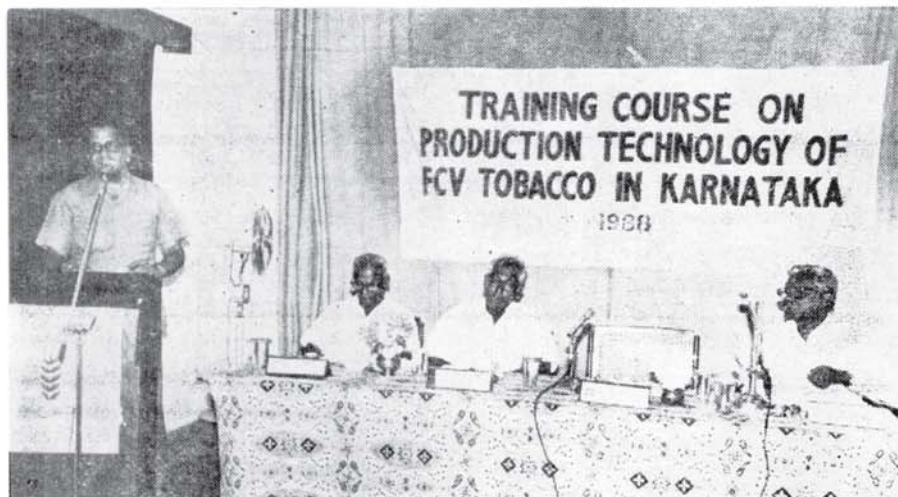
1. Dr. R. Sinha, 2. Dr. P. S. N. Murthy, 3. Dr. Ch. Sreerama Murthy, 4. Dr. V. Krishna Murthy, 5. Sri T. S. N. Reddy, 6. Sri G. V. G. Krishna Murthy, 7. Sri R. Subba Rao, 8. Sri C. R. Nageswara Rao, 9. Sri S. Amarnath, 10. Sri V. K. Dhobhal, and 11. Dr. Dilip Monga.

* Dr. K. D. Singh, S-3, Officer-in-charge, CTRI Research Station, Kandukur has attended III Indian Agrometeorological Congress at Central Institute of Fisheries Technology, Cochin, April 28-30, 1988.

* Dr. (Mrs.) D. V. Subhashini, S-1 and Kum. C. V. Ratnavathi S-1 have attended the National Symposium on New trends in Bio-technology organised by Association of Food Scientists and Technology, at Trivendrum during 3rd & 4th June, 1988.

* Dr. M. S. Chari, Director and Dr. K. Nagarajan, S-3 have attended the 'National Seminar on Changing pest situation in the current Agriculture Scenario of India' organised by ICAR and IARI, New Delhi on 14th & 16th June, 1988.

* Dr. M.S. Chari, Director, CTRI, Rajahmundry inaugurated the training course on 'Production Technology of FCV tobacco in Karnataka on 3-5-88 at CTRI Research Station, Hunsur. First phase of the course was imparted to 40 field assistants sponsored by Tobacco Board.



Dr. M. S. Chari, Director inaugurated the Training Course on Production Technology of FCV tobacco in Karnataka on 3rd May 1988 organised at C.T.R.I. Research Station, Hunsur.

- Sri S. Veerappa, Manager (Extn.), Tobacco Board, Bangalore on 12-4-88.
- Sri K. Ramachandra Raju, Hon'ble Minister for Small Scale Industries and Textiles, Govt. of A.P. on 21-4-88.
- Sri G. Buchaiah Chowdary, Deputy Chairman, State Development Board, Govt. of Andhra Pradesh on 21-4-88.
- Sri J. N. Sapru, Chairman, ITC Ltd., on 25-5-86.

- * Sri M. Mohan, Tech. T-4 attended the pre-season training (Kharif) for Agricultural Extension staff organised by Dept. of Agriculture (T&V) at Courtalam on 16-5-88 and explained about the improved tobacco cultivation practices.

* CTRI Research Station, Dinhata

- Dr. S. N. Mandal, WBCS Assistant Registrar, Co-operative Society.
- Prof. P. C. Sarkar, Head of Division of Geonomics, University of North Bengal.
- Dr. A. K. Pal, Dept. of Agricultural Economics, BCKV North Bengal Campus, Cooch-Behar.
- Dr. B. K. Rostagi, Senior Scientist NARP, ICAR, New Delhi.
- Dr. R. M. Rai, Joint Director, ICAR Complex, Gangtok.
- Prof. N. Panda, Dept. of Soils, Orissa University of Agriculture & Technology, Bhubaneswar.
- Dr. K. C. Srivastava, Former Director, Central Institute of Horticulture for Northern Plains, Lucknow.
- Prof. M. G. Som, Dean, Faculty of Agric., BCKV, Nadia, West Bengal.

INSTITUTIONAL SEMINARS

1. Sri K. Nageswara Rao, Scientist S-2 has given a seminar on 'Water stress and leaf growth' on 6-5-88.
2. Kum. C. V. Ratnavathi, Scientists S-1 has given a seminar on 'identification of interspecific hybrids in Nicotina by Estenase Isozyme Patterns' on 26-5-88
3. Dr. D. V. Subhashini, Scientist S-1. has given a seminar on 'Role of Mycorrhizae in biocontrol of soil-borne pathogens' on 26-5-88.

VISITORS

* CTRI, Rajahmundry

- Dr. R. K. Samanta, Head, PET UNIT, NAARM, Hyderabad on 4-4-88.

- Prof. T. K. Gupta, Director of Res. BCKV, Nadia, West Bengal.
 - Dr. T. P. Mukhopadya, Prof. - in-charge, BCKV, North Bengal, Campus, Cooh-Behar.
 - Mr. J. Ray, Deputy Director, Small Industries Service Institute, Calcutta.
 - Mr. D. Chatterjee, IAS, Div. Commissioner, Jalpaiguri.
- * **CTRI Rea. Station, Guntur**
- 25 Assistant Agricultural Officers, crop Development (IRD)P trainees from Bapatla.
- * **CTRI Research Station, Hunsur.**
- Sri K. R. W, Yesudas, Secretary, Tobacco Board on 6-5-88.
 - Sri C. Chandran, IAS, Director (Auctions), Tobacco Board on 24-5-88.
- PAPERS PUBLISHED :**
1. ABDUL WAJID, S. M; SHENOI, M.M. and MOSES, J.S.L. Screening *Nicotiana* germplasm for resistance to black shank disease. *Tob. Res.* 13 (2) : 111-7, 1987.
 2. ANJANEYULU, C., NAGARAJAN, K. and RAMJILAL. Absorption, movement and persistence of carbendazin in tobacco seedlings. *Tob. Res.* 13 (2) : 158-60, 1987.
 3. DOBHAL V. K. Genetics variability in cigar wrapper tobacco (*Nicotiana tabacum* L.). *Tob. Res.* 13 (2): 107-11, 1987.
 4. DOBHAL, V.C. Genetic analysis of some quantitative traits in hookah and chewing tobacco (*N. rustica*). *Indian J. Agric. Sci.* 58 (2) ; 114-8, 1988.
 5. LAKSHMINARAYANA, R. Heterosis in chewing tobacco (*Nicotiana tabacum* L.). *Tob. Res.* 13 (2) : 89-93, 1987.
 6. SREERAMAMURTY, CH. and GOPALACHARI, N. C. Nitrogenous composition and quality of FCV tobacco fertilized with different sources of nitrogen under irrigated and non-irrigated soil conditions. *Tob. Res.* 13 (2) : 161-3, 1987.
 7. SRIVASTAVA, R. P. and BHASKAR, A. S. Influence of viral diseases on chemical composition and quality parameters of chewing tobacco (*Nicotiana tabacum* L.). *Tob. Res.* 13 (2) : 153-7, 1987.
 8. SUBHASHINI, U., VENKATESWARLU, T., ANJANI, K., NARAYANAN, A. I. and RAO, C. V. Pollen haploids from mutants in *Nicotiana tabacum* (Abstract). (In *Plant cell and tissue culture of economically important plants*, Ed. by G. M. Reddy, Hyderabad, Dept. of Genetics, Osmania Univ., 1987. pp. 409).
 9. VENKATESWARLU, T., SUBHASHINI, U. and REDDY, V. R. Variability in callus derived plants of an interspecific hybrid in *Nicotiana*. (In *Plant cell and tissue culture of economically important plants*. Ed. by G. M. Reddy, Hyderabad, Dept. of Genetics, Osmania Univ., 1987. pp. 271-6).

10. WILSON, M. J. and CHATURVEDI, J. The multidimensional study of adoption of FCV tobacco technologies by the farmers of two rainfed zones of A. P. Tob. Res. 13 (2) : 94-100, 1987.

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Edited & Compiled by Y. V. Suryanarayana & M. Ramam

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