



# CTRI News Letter

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

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## MAJOR EVENTS

### South Zone Sports Meet



Inauguration of sports meet by Sri P. Nagi Reddy, Dy. Inspector General of Prisons.

The sixth ICAR South Zone (V) Sports Meet was hosted by the Central Tobacco Research Institute from October 4-9, 1986 at Rajahmundry. A 288 member contingent participated in the sports meet from eleven ICAR Institutes viz, Central Institute of Fisheries Technology, Cochin; Central Marine Fisheries Research Institute, Cochin; Central Plantation Crops Research Institute, Kasargod; Central Research Institute for Dry-

land Agriculture, Hyderabad; Central Tobacco Research Institute, Raiahmundry; Central Tuber Crops Research Institute, Trivandrum; Directorate of Oilseeds Research Hyderabad; Directorate of Rice Research, Hyderabad; Indian Institute of Horticultural Research, Bangalore; National Academy of Agricultural Research Management, Hyderabad; and Sugarcane Breeding Institute, Coimbatore.



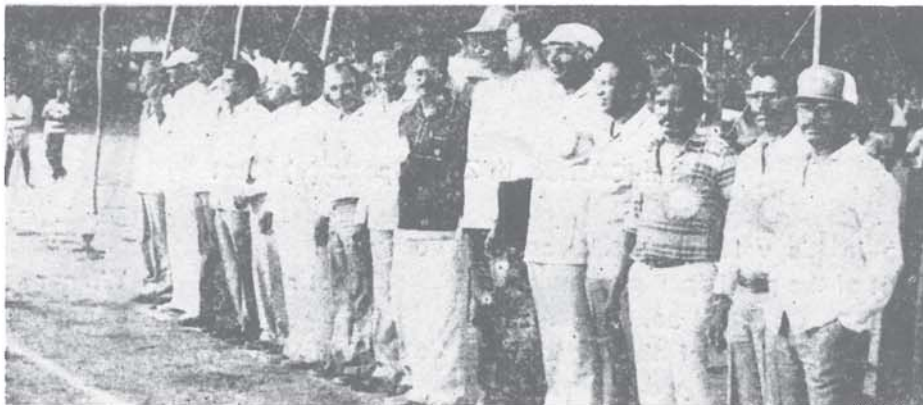
Welcome address by Dr. M.S. Chari, Director Tobacco Research & Chairman Organising Committee of the sports meet

Sri P. Nagireddy, Deputy Inspector-General of Prisons, Rajahmundry was the Chief Guest and Dr. M.S. Chari, Director Tobacco Research & Chairman, Organizing Committee has presided over the function. In his welcome address Dr. Chari advocated the need of Games & Sports which develops healthy body and sound mind. Realising this important fact the ICAR started the Inter-Institutional Tournaments in 1979, as a part of the ICAR Employees Sports & Welfare activities during the Golden Jubilee year. Dr. Chari emphasised that this sports meet will not only encourage the sportsmen of the Institutes but also bring a good rapport between the different ICAR Institutes in India. He extolled that sports & games always bring a real national and international integration and brotherhood. Dr. Chari thanked Sri Nagireddy, Deputy Inspector General (Prisons) for kindly accepting to inaugurate the sports meet.

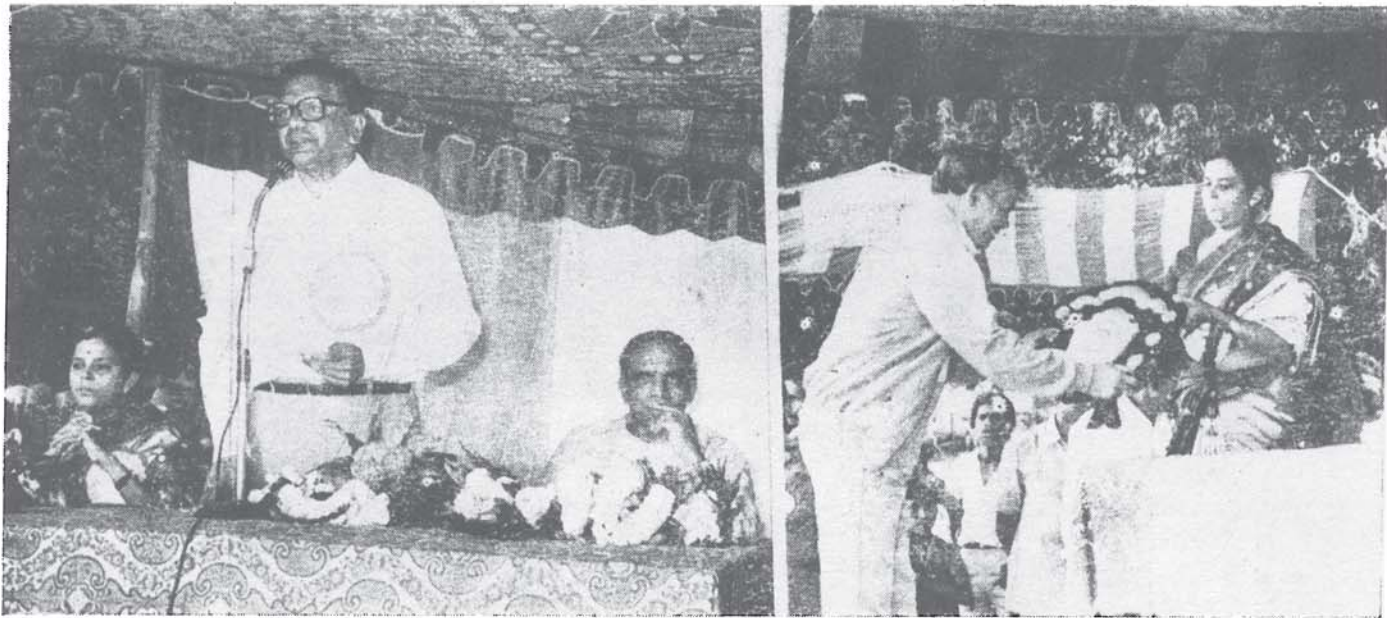
Sri P. Nagireddy, Deputy Inspector-General (Prisons), Rajahmundry while inaugurating the sports meet

at 8-00 A. M. on 4-10-1986 in the Arts College grounds, expressed his happiness to see the large number of staff from various ICAR Institutes participating in the events. He complemented the ICAR for conducting such types of sports & games which will help in understanding the culture of different regions and ultimately leading to national integration. Sri Nagireddy declared the sports meet open and wished the participants success in their endeavours.

The valedictory function of the sports meet was held at 3-00 P. M, on 9-10-1986. Sri T. D. Prasada Rao, Member-Research, ITC Limited, ILTD Division, Rajahmundry was the Chief Guest.



Sixth ICAR South Zone Sports (v) Meet



### Sixth ICAR South Zone Sports (v) Meet

Sri Prasada Rao in his valedictory address commended the team spirit of the participants and wished them all the best. Sri D. Ch. Rajarao, Organizing Secretary thanked all the members of the Organising Committees and Institutions who helped in conducting the Sports Meet successfully.

Central Plantation Crops Research Institute, Kasargod won over all Championship Trophy, and Athletics Championship Trophy, while Central Marine Fisheries Research Institute, Cochin came second in the Athletics Championship. Mr. Jacob Kurien of Central Plantation Crops Research Institute, Kasargod was the Individual Athletics Champion. Mrs. Lakshmi Chari distributed prizes to the winners

Volley Ball (Shooting)	Winner : CTRI
	Runner : DOR
Volley Ball (Volley)	Winner : CPCRI
	Runner : CTRI
Kabaddi	Winner : IIHR
	Runner : CMFRI
Table Tennis (Singles)	Winner : P. Praveen, CIFT
	Runner : Y. Joshi, CPCRI
Table Tennis (Team)	Winner : IIHR
	Runner : CPCRI
Shuttle (Individual)	Winner : Dr. Shenoy, CIFT
	Runner : Dr. Tikoo, IIHR
Shuttle (Team)	Winner : IIHR
	Runner : CIFT

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### RESULTS OF THE VI ICAR SOUTH ZONE (V) SPORTS MEET

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Foot Ball	Winner : CIFT
	Runner : CPCRI

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### ATHLETICS

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5 Km Cycle Race	1. Lakshmanan, CTCRI
	2. M. Krishna Rajan, IIHR
	3. Babulal Mohato, IIHR

100 Mts. Running	1. Jacob Kurian, CPCRI 2. V. Atchuta Rao, CMFRI 3. Krishnan Kutti, CPCRI	2. G. Krishna Rajan 3. K. M. Lingaraj 4. K. G. Poonacha
200 Mts. Running	1. Jacob Kurian, CPCRI 2. V. Atchuta Rao, CMFRI 3. P. K. Krishnan Kutti, CPCRI	Overall Championship : CPCRI, Kasargod Athletic Championship : CPCRI, Kasargod
400 Mts. Running	1. Achuta Rao, CMFRI 2. K. Narayana Nair, CPCRI 3. Venkata Ramana, CPCRI	Individual Champion : Jacob Kurian, CPCRI, Kasargod
800 Mts. Running	1. Venkata Ramana, CPCRI 2. Vengappa, CPCRI 3. N. Selvan, SBI	
1500 Mts. Running	1. K. G. Poonacha, IIHR 2. N. Selvan, SBI 3. Venkata Ramana, CPCRI	
Long Jump	1. Jacob Kurian, CPCRI 2. K. V. Pillai 3. P. Poovannan, CMFPI	
High Jump	1. Jacob Kurian, CPCRI 2. N. Gopala, CPCRI 3. L. Siddilingayya, IIHR	
Pole Vault	1. Krishnan Naik, CPCRI 2. S. K. Nanda, CTCRI 3. M. Alfred, CMFRI	
4 x 100 Relay	I CPCRI KASARGOD 1. Jacob Kurian 2. K. V. Pillai 3. P. K. Krishnan Kutti 4. K. V. Kunhi Kannan II CMFRI, COCHIN 1. V. Atchutha Rao 2. G. K. Rajan 3. P. Poovanan 4. A. Kumar III IIHR, BANGALORE 1. S. Venkateshaiah	

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### RESEARCH HIGHLIGHTS

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#### CTRI, Rajahmundry :

Fumigation of nursery beds with Durofume @ 10, 15 and 20 ml/M<sup>2</sup> gave excellent control of root-knot nematode (*Meloidogyne javanica*) as well as weeds in the nursery. Application of Nematicides like Nema-cur 5 G and 400 EC @ 5.0, 7.5 and 10.0 Kg/ha and 1/ha respectively was found equally effective in the control of root knot nematode in the nursery. A new nematicide FMC-10 G @ 4 and 6 Kg a. i/ha was found encouraging in the control of root-knot disease.

Regarding control of damping off disease of tobacco in seed beds, results indicated that seed treatment with 3% Metalaxyl (Apron 35 SD) followed by 3 drenchings of Foltaf @ 0.2% or Bordeaux mixture @ 6 3 100 was promising. Next best treatments were (i) Seed treatment with Apron 35 SD plus one drenching with Apron 35 SD @ 0.2%. (ii) Soil incorporation of *Trichoderma harzianum* and *T. viride* @ 100 g/M<sup>2</sup> followed by 3 soil drenchings of Foltaf @ 0.2% or Fytolan @ 0.2% or Bordeaux mixture @ 0.4%.

Mineral oils like Kerosene and diesel oil as spot application had knock-down effect on Orobanche shoots. Herbicides like Command 4E, Agrodar 96 EC and Agrodone 48 EC were found promising by way of delayed orobanche emergence. Emerged shoots were slightly mummified. Further studies are in progress.

### CTRI Research Station, Guntur :

Natu Tobacco advanced breeding line NG-32 stemmed from the cross DG-3 x HDBRG was found to be significantly superior to rest of the entries in giving higher cured leaf yield during 1985-86 season.

Selections emanated from the crosses involved DG-32 x DWFC, and Viswanadh x DWFC were found to be resistant to *Spodoptera* species.

The high yielding line Lalupuram-2 exhibited its significant superiority over all the entries and control HDBRG (ITC)

### CTRI Research Station, Vendasandur :

Studies on the effect of various seed bed covers and watering schedules revealed that 6 and 5 waterings per day gave transplants of 3,337 and 3,262 per bed of 2.5m<sup>2</sup> than 4 waterings per day, which was 3,032 per bed.



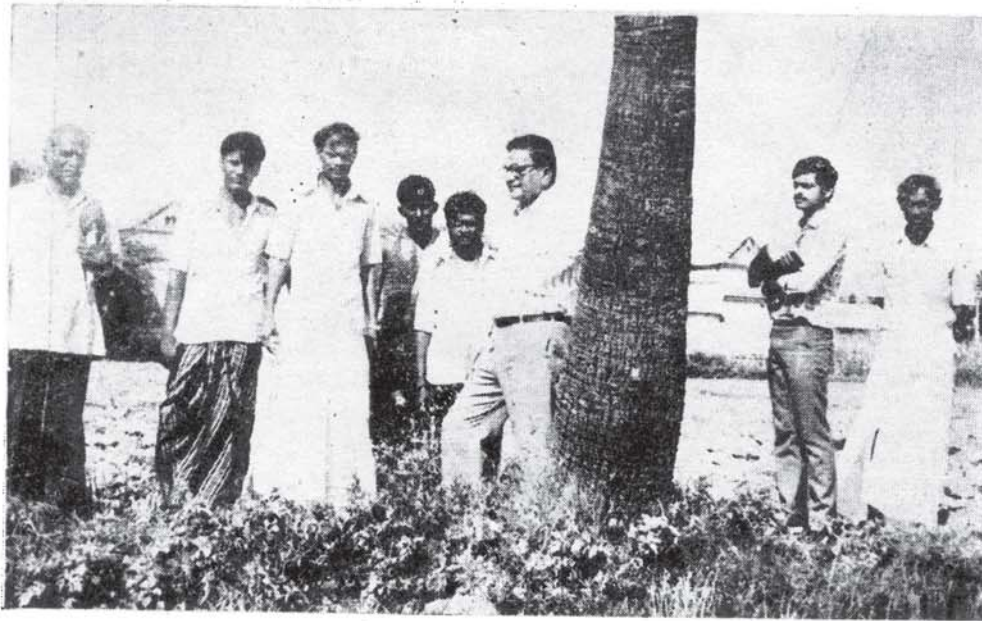
Director along with the progressive farmers of Sukkampatty of Dindigal Taluk.

### CTRI Research Station, Hunsur :

In a pot study under glass house conditions, selected FCV tobacco varieties were tested against high inoculation at 1000 larvae per 500 cc of soil of three root-knot species present in the area. At 60 days after inoculation Va. 145, FCH. 6005 and Cocker 245 showed low root-knot index for *Meloidogyne incognita* the important and widely occurring species, while Va. 770 was promising against *M. arenaria* and FCH. 6005 against *M. javanica*.

Pre-release location trials in Mysore and Hassan districts confirmed the superior traits of line FCH. 6005. The line exhibited high yield with satisfactory cured leaf characters and bright leaf recovery. In all the centres the crops were free from black shank, and root-knot incidence was negligible. Trials are proposed in the Shimoga area next year.

Heavy south-west monsoon rains caused severe out-break of bacterial spots in bidi tobacco crop. Among



Director's Visit to Lab-to-Land trial plot at Mannarkottai (Tamil Nadu)

the varieties grown PL-5 exhibited high degree of tolerance to the disease.

A special project on mapping FCV tobacco growing area of Karnataka for distribution and intensity of root-knot disease was undertaken. Survey of planted crop in the different regions and soils for species present and prevalence was completed.

#### **CTRI Research Station, Dinhat :**

Use of Fusilade as post-emergence weedicide @ 0.6 Kg a. i /ha suppressed growth of weeds and resulted in more number of transplants per unit area of nursery bed. Rabbing of the nursery beds also gave beneficial results on extent of germination and number of transplants.

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#### **CONFERENCES, SYMPOSIA & SEMINARS**

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A paper entitled "Analysis of yield gaps for crops" by Dr. D. V. Subba Rao and M. Subrahmanyam was presented in the yield gap analysis Symposium organized by the Indian Society of Agricultural Statistics at Varanasi on 4-7th December, 1986.

Sri G. S. V. Subrahmanyam, Scientist S-1 presented a paper entitled "Use of computers in crop Research" (by Dr. D. V. Subba Rao and G. S. V. Subrahmanyam) in the Seminar on Computers conducted by the Department of Agriculture, Govt. of Andhra Pradesh at Hyderabad on 5-6th November, 1986.

Sri N. S. Murthy, Scientist S-2 (Ag. Statistics) delivered a Seminar talk on "Augmented Designs" at CTRI, Rajahmundry on 4th December, 1986.



**Dr. B. V. Ramakrishnayya, Officer-in-charge, CTRI Research Station, Hunsur showing the cured leaf sample of FCH 6005 to Shri B. N. Betkerur, IAS, Director of Auctions and Shri Priyadarshi Dash IAS, Executive Director, Tobacco Board on 29-11-1986 at the Research Station.**

Sri Y. V. Suryanarayana, Asst. Librarian gave a Seminar on TOBDB (Tobacco Bibliographic Data Base) Soft-ware package at CTRI, Rajahmundry on 7th November 1986.

or, Tobacco Board, Guntur and Mr. B.N. Betkerur. IAS., Director (Auctions), Tobacco Board, Bangalore have visited the Station.

Dr. S. S. Hussaini, Scientist S-2 (Nematology) participated in the National Conference on Plant Parasitic Nematodes of India - Problems and Progress held at I. A. R I, New Delhi on 17-20th December, 1986 and presented a lead paper entitled "Nematode disease problems in tobacco".

#### **CTRI Research Station, Pusa :**

Hon'ble Governor of Bihar Sri P. Venkata Subbiah along with Dr. G. Trivedi, Vice-Chancellor, Dr. M. S. Haque, Registrar, Sri D. N. Singh, District Magistrate, Samastipur District have visited the LLP works on tobacco in the vililage Mohanpur of Samastipur district.

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### **TRAINEES & VISITORS**

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#### **CTRI Research Station, Hunsur :**

Mr. Larry B. Taylor Agronomy and Leaf Manager, Philippines, Mr. Priyadarshi Dash, IAS Executive Direct-

#### **CTRI Research Station, Dinahata :**

Sri P.P Sarkar, District Judge, Cooch Behar, Dr.-L.P.Upadhyay, Chief Scientist, Regional Agril. Research Station, Gossaigaon, Md. Jia Suhrawary and Sri S. R.



Paul, Scientists of Regional Agril. Research Station, Gossaigaon; Dr. A. K. Saha, Prof.-in-charge, B.C. K. V. North Bengal Campus, Cooch Behar; Dr. B. C. Bhounik and Dr. B. Guha, Scientists of Assam Agril. University, Jorhat; Sri K. K. Das Gupta, IAS., Member Secretary, West Bengal Science & Tech. Committee, State Planning Board, Calcutta have visited the Station,

## APPOINTMENTS AND PROMOTIONS

### APPOINTMENTS

Smt. S. Daiesy Kamala has been appointed to the post of Scientist Gr. S-1 at CTRI, Rajahmundry w. e. f. 12-12-'86.

Sri N. Veerajulu has been appointed to the post of Tech. T-1 (Field/Farm) at CTRI Research Station, Hunsur w. e. f. 19-12-1986.

Sri S. K. Ameer Ali, has been appointed to the post of curer on ad-hoc basis at CTRI Research Station, Guntur w. e. f. 6-12-1986.

### PROMOTIONS

Sri C. R. Chattiar Tech. T-4 has been promoted to the post of Tech. T-5 w. e. f. 1-1-1986.

### TRANSFERS

Sri P. Ram Kumar, Assistant has been transferred from CTRI Research Station, Pusa to CTRI Research Station, Kandukur w. e. f. 11-12-1986.

Sri Krishnanayaka, S. S. Gr. I (Watchman) has been transferred from CTRI Research Station, Hunsur to CTRI Research Station, Kandukur w. e. f. 5-12-1986.

## RETIREMENTS

The following Officers/Staff members of the Institute retired from Council's Service on attaining the age of superannuation.

Sri T. Samuel, Tech. T-1-3, CTRI, Rajahmundry w. e. f. 31-10-1986.

Sri V. Joseph, Tech. T-1, CTRI, Rajahmundry w. e. f. 31-10-1986.

## LIST OF PUBLICATIONS

1. Progress in breeding of 'Natu' tobacco.

Ramana Rao, V. V., Prasannasimha Rao, G. S. B. and Sekharababu, A. V.

Tob. News 9(5) : 11-12, 1986.

2. Performance of recently evolved promising advanced breeding lines of *natu* tobacco (*N. tabacum* L.) in Black cotton soils of Guntur.

Prasannasimha Rao, G. S. B., Ramana Rao, V. V., Sekharababu, A. V. and Prabhakara Rao, N. N.

Indian Tob. J 18 (2) : 9-11, 1986.

3. Research activities for cultivation of Aromatic Tobacco in Tribal area of Chintapalli (Vizag Dist) (In Telugu)

- Someswara Rao, M., Gopalachari, N. C. and Subba Rao, R.  
Bharateya Pogaku 16 (2) : 3-5, 1986.
4. Lead and Cadmium content of indian flue-cured tobacco.  
Murty, K. S. N *et al*  
Plant and Soil 95 : 281-4, 1986.
5. Variations in Solanesol levels among tobacco stalk positions, growth stages and air-curing.  
Narasimha Rao, C. V. and Chakraborty, M. K.  
Tob. Inter 188 (12) : 142-3, 1986.
6. Plant position of the leaf and its growth pattern, chemical and physical characteristics of irrigated FCV tobacco (variety 16/103)  
Sannibabu, M. and Sitaramachari, T,  
Tob. News 9 (5) : 6-10, 1986.
7. White fly effect on Virginia tobacco-its control and curing methods. (In Telugu)  
Sitaramachari, T.  
Bharateya Pogaku 16 (1) : 3-7, 1986.
8. Improved agrotechniques for high yields in chewing tobacco.  
Krishnamurthy, S.  
VI National Symposium on Tobacco - February, 13-17th, 1986. Souvenir P. 23-8.
9. Combining ability in hookah and chewing tobacco.  
Dobhal, V. K.  
Indian J Agric Sci 56 (12) : 844-9, 1986.