



# C. T. R. I.

# NEWS LETTER

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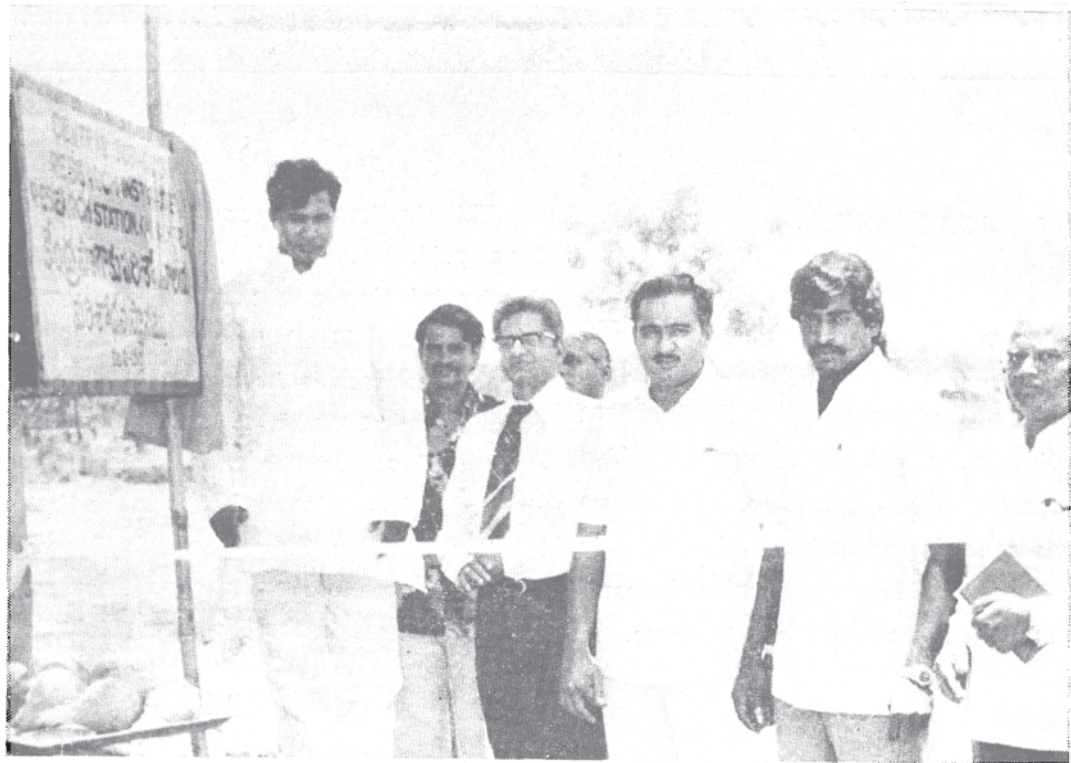
## MAJOR EVENTS

A White Burley Research Station at Chintapalli (Vizag District, Andhra Pradesh) was opened on 8th April, 1983, in an area of 12 acres of land provided by the Assistant Director, Animal Husbandry, ITDA. Government Live Stock Farm, Chintapalli. A time bound programme was chalked out and nursery raising was taken-up immediately to supply seedlings for about 50 acres (50 tribal farmers) besides meeting Institute's experimental requirements.

This Institute did commendable research work at Devarapalli, Kovvur Taluk, West Godavari District and thereby bringing a vast area of Northern Light Soils for FCV tobacco cultivation by the poor and marginal farmers. The NLS tobacco is having good demand in the International market and is of excellent quality. To meet the demand of competitive price in the International market and boost the foreign exchange to the National exchequer, it is imperative on the part of this Research Institute to improve the qualitative and quantitative production of FCV tobacco grown in the Northern Light Soils. In view of



Inauguration of White Burley Research Station, Chintapalli by Sri S.V. Prasad, IAS, District Collector, Vizag.



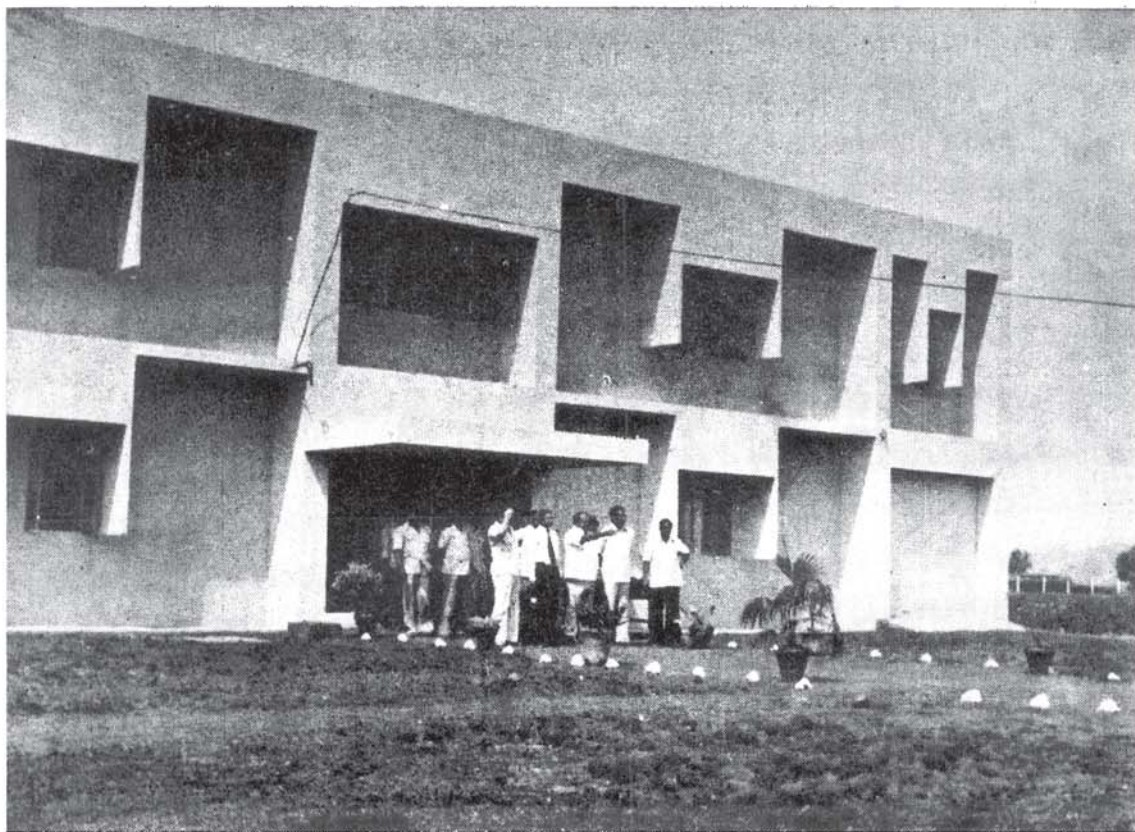
Inauguration of the NLS Research Station Farm at Kalavacherla by Sri K. Jana Reddy, Hon'ble Minister for Agriculture, Andhra Pradesh



this important task this Institute has opened a permanent types of tobacco, thereby expanding the dry farming NLS Research Station at Kalavacherla near Rajanagaram area into tobacco cultivation. It is also long felt (East Godavari District) on 18th April, 1983 in an area of need and strong desire of the NLS farmers of this 22.08 acres to conduct research activities on various District.



Sri M. C. Mahapatra IAS, Chairman, Tobacco Board, has inaugurated the newly constructed building for CTRI Research Station, Guntur on 28th May, 1983.



A view of the new building of CTRI Research Station Guntur.

## RESEARCH HIGHLIGHTS

### CTRI Rajahmundry :

Crop rotation studies in black soils have shown that blackgram in kharif followed by FCV tobacco in rabi, fertilized at 30 kg N/ha, recorded the highest cured leaf yield and maximum monetary returns, compared with greengram or fallow in kharif.

Incorporation of TMV resistance into variety Jayasri has been completed and designated as Jayasri MR, it produced 2100 kgs of cured leaf and 1007 kgs of TBLE per ha. Selection D1 obtained through pollen culture produced 1950 kgs of cured leaf and 1180 kgs of TBLE.

In the programme on Tissue Culture studies, a number of interspecific hybrids are being studied for in vitro fer-

tilization. Regeneration of disease free plants through meristem tip culture has been taken up and results are encouraging.

It was conclusively proved that an intergrated schedule of 3 sprays of NSKS at 2% and periodical releases of two natural enemies viz. *Telenomus remus* and *Chrysopa scelestes* is highly effective in controlling *Spodoptera litura* F. during the entire nursery period and the use of poisonous chemicals can be dispensed with.

Among the new fungicides evaluated for the control of soil borne pathogens viz. *Pythium aphanidermatum* and *Phytophthora parasitica* causing damping off and black shank, two sprays of Ridomil 25 WP @ 0.5%, 0.1% and 0.2%, three sprays of Difoltan 80 WP @ 0.2%, M. 9834 EC. 0.1% + Dithan Z. 78 0.1%, Rallis Capter F 75



WP 0.2%, M. 9834 EC 0.1% + Fytolan 0.1% and Lesan (Bayer 5072) @ 0.05% were found highly effective.

Commercial nicotine was successfully converted to nictinamide through nicotinic acid and ethyl nicotinate. However, the yield of the final product needs to be improved for economic viability of the process.

#### **CTRI Research Station, Guntur :**

Studies on the effect of organic and inorganic manurial combinations in different proportions on the yield and quality of FCV tobacco has revealed that the application of FYM @ 2.5 tonnes/ha in combination with 20 kg N/ha as ammonium sulphate has improved the yields of FCV tobacco without any adverse affect on the quality leaf production followed by the treatment, application of 30 kg N/ha as ammonium sulphate alone.

#### **CTRI Research Station, Kandukur :**

In nursery beds Blitox 0.2% or Bordeaux mixture 0.4% were found effective in controlling damping-off and hence recommended.

#### **CTRI Research Station, Vedasandur :**

A special project under the auspices of Joint Director of Agriculture, Coimbatore was taken-up to demonstrate the use of neem oil emulsion for suppression of suckers on chewing tobacco, during the year 1982-83 in 50 acre blocks in each of the areas viz., Mettupalayam, Karamadi, Sirumugori and Dhayamur.

Out of 490 acres under chewing tobacco, 255 acres were covered under this programme. It was demonstrated that sucker control with neem oil emulsion not only compared favourably with hand suckering but also increased the yields by 80 to 100 kg per acre resulting in an increased income of Rs. 240/- to 300/- per acre.

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

A new fumigant (MB-EDB in 1:1 mixture) was tested and found to give absolute protection against root-knot nematodes and controlled nutgrass and other weeds effectively and reduced soil-borne pathogenic infections. Treated seedlings had profuse root system and established well in field.

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

At 50 kg level of  $P_2O_5$ /ha, Mussooriephos with Aspergillus culture was a cheaper source of  $P_2O_5$ , but equally effective to triple super phosphate on the yield of chewing tobacco in sandy loam calcareous soils of North Bihar.

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

Studies on the effect of N, P and K on the yield and quality of Motihari tobacco showed that highest yield of 3034 kg/ha was obtained with 120 kg N/ha, 50 kg  $P_2O_5$ /ha and 100 kg  $K_2O$ /ha.

#### **Lab-to-Land Programme :**

#### **CTRI Rajahmundry :**

Fifty tribal farming families from Vattigadda of East Godavari District were classified under different categories viz., crop enterprise, commercial nursery management and landless labourers.

Ten Girijan Mahilas raised White Burley tobacco nursery in an extent of 1.25 acres and they were supplied critical inputs like seeds, fertilizers and pesticides.

Of the thirty farming families in crop enterprise, twelve families were given TMV 2 groundnut seed and fertilizers and the remaining eighteen families were supplied with gingelly. The ten landless farm families were distributed crowbars, iron pans, goats, etc.



Dr. N. C. Gopalachari, Director inaugurating the Girijan Mahila White Burley tobacco nursery sowings on 24th May, 1983.



Dr. N. C. Gopalachari, Director distributing crowbars, iron pans, goats to the ten landless labour families at Vattigadda on 24th May, 1983.



### Prime Minister's 20 Point Programme :

National Agricultural Inputs fortnight (closing day function) was celebrated on 15th June, 1983 at Rajanagaram in collaboration with the State Department of Agri-

culture, East Godavari District. Sri Prabhakar D. Thomas, IAS, Joint Collector, East Godavari District has presided over the function. Speaking on the occasion Dr. Gopalachari stressed the need for intensive extension activities for transfer of technology to the farming community.



Dr. N. C. Gopalachari distributing inputs to the farm families adopted by CTRI under Prime Minister's 20 Point Programme.

### TRAINEES & VISITORS

#### CTRI, Rajahmundry :

Inservice training course was conducted to the Technical Personnel working at the main Institute and Regional Research Stations for a period of 15 days from 1st to 18th June, 1983. The aim of the course is to impart training in the improved methods of tobacco production technology

and also to enable the technicians to assist the Scientists in effective implementation of the experimental projects. The course was conducted successfully.

Twenty tribal people from Rampachodavaram were given training in the pest control activities in White Burley Tobacco nursery management, practical demonstration of seed bed preparation etc. in the tobacco nursery during the period from 25th to 31st May, 1983.

Mr. Ratan Bachhar, a trainee from M/s. Tobacco Development Company Limited, Nepal, underwent training at this Institute in the improved methods of tobacco technology under TCS Colombo plan for a period of 6 months from January to June, 1983.

#### VISITORS :

- 7-4-'83 Mr. Khan M. J., Golden Tobacco Company Hyderabad.
- 8-4-'83 Mr. M. Jayaprakash Narakkat R. & D. Department, Golden Tobacco Company, Bombay.
- 18-4-'83 Sri K. Jana Reddy, Hon'ble Minister for Agriculture, Andhra Pradesh.  
Sri G. Buchayya Chowdary, MLA.,  
Sri G. Venkataswamy Naidu MLA and  
Sri Chinnam Joga Rao, MLA.
- 23-4-'83 Sri T. Mallikarjuna Rao,  
Senior Joint Director of Agriculture,  
Kakinada.
- 17-5-'83 Dr. M. Subrahmanyam, Officer-in-charge  
Prawn Breeding Unit, Central Inland  
Fishery Research Institute, Kakinada.
- 30-5-'83 Sri N. Krishna Reddy,  
Agricultural Officer (Training)  
VDO's Training Centre, Samalkot.
- 2-6-'83 Dr. P. L. Sanjeeva Reddy, IAS  
Vice Chairman & Managing Director,  
APIDC, Hyderabad.

#### CONFERENCES & SYMPOSIA

Sri R. S. N. Rao, Scientist S-1 (Entomology) Central Tobacco Research Institute, Rajahmundry, has attended the Summer Institute on 'Microbial control of insects and pests management' organised by the Tamilnadu Agricultural University, Coimbatore from 1st to 25th June, 1983.

Sri Barelal Singh, Scientist S-1 (Agronomy) CTRI Research Station, Dinhat, has attended the Summer Institute on 'Field plot machinery research, design and application' organised by the Central Institute of Agricul-

tural Engineering, Bhopal from 23rd May to 15th June, 1983.

Sri G. V. G. Krishnamurthy, Scientist S-1 (Pathology), Central Tobacco Research Institute, Rajahmundry, has attended the Nematology Symposium conducted by the Nematological Society of India Indian Agricultural Research Institute, New Delhi, from 24th to 26th May at Himachal Pradesh Krishi Viswa Vidyalaya, Solan (Himachal Pradesh) and presented a paper.

Sri D. Ch. Raja Rao, Documentation Officer, Central Tobacco Research Institute, Rajahmundry has attended All India Seminar on Agricultural Library & Information Services, from May 4-7, 1983 at Palampur, Himachal Pradesh, and presented two papers.

#### HONOURS & AWARDS

Dr. J. A. V. Prasad Rao, Scientist S1 was elected as Fellow of Indian Chemical Society.

#### APPOINTMENTS & PROMOTIONS

##### Appointments :

1. Shri Dharm Singh Varma, T-4 was selected for the post of Technician T-5 at Directorate of Oil Seeds Research, Hyderabad.
2. Sri Ch. Madhava Rao, Technician T-2, CTRI Rajahmundry has been promoted to the post Technician T-II-3 at CTRI Research Station, Hunsur with effect from 12-4-1983.
3. Sri S. S. Gossain, a candidate sponsored by Central Surplus Cell has been appointed as Tractor Driver at CTRI Research Station, Hunsur with effect from 15-2-1983.
4. Sri S. Soundararajan has been appointed to the post of Technician T-1 (Mechanic) at CTRI Research Station, Veda sandur with effect from 19-5-1983.
5. Sri K. Nagaraju, S. S. Gr. 1 has been appointed to the post of Technician T-1 at CTRI, Rajahmundry w, e. f. 26-4-1983.



6. Sri A. Sivakoteswara Rao, S. S. Gr. II has been appointed to the post of Technician T-1 with effect from 17-5-1983 at CTRI Research Station, Hunsur,
7. Sri Vara Babu Rao, has been appointed to the post of Technician T-1 with effect from 13-5-1983 at CTRI Research Station, Kandukur.
8. Sri G. Ananda Rao, S.S. Gr.II, CTRI, Rajahmundry has been appointed as Technician T-1 at CTRI Research Station, Kandukur with effect from 7-6-1983.
9. Sri R. Varadarajan, Assistant, C T R I Research Station, Veda sandur promoted to the post of Superintendent at Krishi Viagyna Kendra of CTRI, Rajahmundry with effect from 23-5-1983.
10. Sri N. Venkata Rao, Senior Clerk, promoted to the post of Assistant with effect from 7-4-1983 at CTRI, Rajahmundry.
11. Sri K. Narayana Murty, Senior Clerk, promoted to the post of Assistant with effect from 3-5-1983 at CTRI, Rajahmundry.
12. Sri G. Narasimha Reddy, Senior Clerk, promoted to the post of Assistant with effect from 3-5-1983 at CTRI, Rajahmundry.

#### Promotions :

1. Sri A. V. H Prasada Rao, Superintendent, promoted to the post of Asst. Administrative Officer at CTRI, Rajahmundry w. e. f. 1-3-1983
2. Sri U. V. Koteswara Rao appointed to the post of Assistant Accounts Officer at CTRI Rajahmundry on deputation basis with effect from 7-4-1983.
3. Sri G. S. R. Murthy, Superintendent, promoted to the post of Assistant Administrative Officer at CTRI, Rajahmundry, with effect from 30-4-1983.
4. Sri Y. Hayagrivudu, Superintendent, promoted to the post of Assistant Administrative Officer at CTRI, Research Station, Kandukur with effect from 7-6-1983.
5. Sri V. Krishna Rao, Assistant, promoted to the post of Superintendent on regular basis with effect from 5-5-1982 at CTRI, Rajahmundry.
6. Sri J. Sarangapani, Assistant, promoted to the post of Superintendent at C T R I, Rajahmundry with effect from 7-4-1983.
7. Sri A. Narasimha Murthy, Assistant, on deputation from Directorate of Oil Seed Research, Hyderabad promoted on proforma basis as Superintendent w. e. f. 30-4-1983.
8. Sri G. S. Subba Rao, Assistant, promoted to the post of Superintendent at CTRI Research Station, Hunsur with effect from 27-6-1983.
13. Sri S. K. Mastan, Senior Clerk, promoted to the post of Assistant at CTRI, Rajahmundry with effect from 7-5-1983 A. N.
14. Sri E. K. Durga Das, Senior Clerk, promoted to the post of Assistant at C T R I, Rajahmundry with effect from 29-7-1983.
15. Sri D. N. Ray, Junior Clerk promoted to the post of Senior Clerk at CTRI Research Station, Dinhatata with effect from 7-4-1983.
16. Sri Mummidi Satyanarayana Murthy, Junior Clerk, promoted to the post of Senior Clerk at CTRI, Rajahmundry with effect from 30-4-1983 A.N.
17. Sri T. S. Krishna Murthy, Junior Clerk promoted to the post of Senior Clerk at CTRI Research Station, Hunsur, with effect from 10-5-1983.
18. Sri S. Arulappan, Junior Clerk promoted to the post of Senior Clerk with effect from 7-5-1983 at CTRI Research Station, Veda sandur.
19. Sri Shaik Mastan Vali, Junior Clerk promoted to the post of Senior Clerk with effect from 6-5-1983 at CTRI Research Station, Guntur.
20. Sri P. Ram Kumar, Junior Clerk promoted to the post of Senior Clerk at CTRI, Rajahmundry with effect from 4-5-1983.
21. Sri A. Muthuraman, Junior Clerk promoted to the post of Senior Clerk at C T R I Research Station Veda sandur with effect from 16-5-1983.

22. Sri K. Rajkumar, Junior Clerk promoted to the post of Senior Clerk at C T R I Research Station, Guntur with effect from 9-5-1983.
23. Smt. P. V. S. Bharathi, Junior Clerk appointed to the post of Junior Stenographer with effect from 15-6-1983 at CTRI, Rajahmundry.

#### TRANSFERS

1. Dr. B. V. Ramakrishnayya, Scientist Gr. S-3, CTRI Rajahmundry transferred to CTRI Research Station Hunsur with effect from 4-5-1983.
2. Sri A. V. Subbaiah, Technician T-II-3, C T R I, Rajahmundry transferred to CTRI Research Station Guntur, with effect from 10-5-1983.
3. Sri G. S. B. Prasanna Simha Rao, Scientist Gr.S-1 (PB) CTRI Research Station, Guntur transferred to CTRI, Rajahmundry with effect from 13-6-1983
4. Sri V. V. Ramana Rao, Scientist Gr. S-2, CTRI, Rajahmundry. transferred to C T R I Research Station, Guntur, as Officer-in-charge with effect from 23-6-1983 F. N.
5. Sri M. Ilyas Ahmed, Scientist Gr. S-1, CTRI Research Station, Veda sandur transferred to CTRI, Rajahmundry with effect from 25-5-1983.
6. Sri S. Chelliah, Technician T-II-3, CTRI Research Station, Hunsur transferred to C T R I Research Station, Veda sandur with effect from 9-5-1983.
7. Sri Ramachandra Gowda, Technician T-1, CTRI, Rajahmundry, transferred to C T R I Research Station, Hunsur, with effect from 18-4-1983.
8. Sri Santkumar Singh, Technician T - II - 3, CTRI Research Station, Veda sandur transferred to CTRI Research Station, Dinhat a with effect from 27-5-1983.

9. Sri A. S. Bhaskar, Technician T-II-3, CTRI Research Station, Veda sandur transferred to C T R I Research Station, P u s a, with effect from 30-5-1983.

#### DEATHS

1. Sri V. B. Bhargava Rao, Technician T-II-3, CTRI, Rajahmundry expired on 6-5-1983
2. Sri P. Rama Rao, S.S.Gr. III, CTRI, Rajahmundry expired on 16-4-1983.

#### RETIREMENTS

1. Sri S. Seshagiri, Senior Administrative Officer, CTRI, Rajahmundry retired on 30-4-1983.
2. Sri J. Venkaiah, S.S.Gr.II (Peon), CTRI Research Station, Guntur retired on 30-6-1983.

#### PAPERS PUBLISHED

1. Granular systemic insecticides for control of green peach aphid (*Myzus persicae*) and their effect on yield and quality of tobacco grown in river-side tanks. Prasada Rao, J. A. V., Hanumantha Rao, A., Subbo Rao, D., and Rama Prasad, G. Krishna Murthy G. V. G., Ramjilal and Nagarajan, K. Indian J. Weed Sci. 14(2): 115-20, Dec. 1982.  
Trop. Pest Managment. 28(4) : 381-4, Dec. 1982
2. Preliminary studies on the control of orobanche in tobacco.
3. Quality of Indian cigar wrapper tobacco based on some physico chemical properties, Srivatsava, RP and Subba Rao, D.  
Indian Tob. J. 14(3) : 3-6, Oct. - Dec. 1982.