



# समाचार Newsletter

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No. 3  
JULY - SEPTEMBER  
1990.

## CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY

### MAJOR EVENTS

#### STAFF RESEARCH COUNCIL MEETINGS

Staff Research council meetings were held at Central Tobacco Research Institute, Rajahmundry from 17-7-90 to 20-7-90. The meetings were attended by Dr. R. Lakshminarayana, Project co-ordinator (Tobacco) Dr. B V. Ramakrishnayya, Director (Tech) Tobacco Board, Dr. T. S. Subrahmanyam and Sri N. Rama Rao of M/s., ILTD Ltd. Officers-in-charge of CTRI Research Stations and Scientists of CTRI and its Research Stations, Gujarat Agricultural University, Bidi Tobacco Research Station, Anand and Emeritus Scientists Sarvasri. B. G. Joshi and A. B. Sastry.

Dr. P. M. Bhargava, distinguished Scientist of Centre for Cellular and Molecular Biology, Hyderabad inaugurated the function.



Dr. P.M. Bhargava addressing the gathering

Dr. M. S. Chari in his welcome address emphasised the need to develop biotechnology as it is an excellent tool for improving agricultural production and meeting the demands of increasing population. He felt that application of modern biotechnology will show significant results only after a decade in the production of food grains and the improvement of livestock production.

Dr. Chari assured that some of the proven technologies which are practically viable will be released for the benefit of farming community. Dr. P. M. Bhargava gave a lecture on "Past, Present and Future of Biotechnology which is highly informative and thought provoking to the scientific community. He also felt that it is possible to produce hybrid varieties of vegetables with good quality, taste and resistance to pests and diseases through Biotechnology and consumption of these nutritious vegetables increases the life span of human beings. Dr. Bhargava cautioned that biological weapons are more dangerous than nuclear weapons.

Dr Chari thanked Dr Bhargava for his thought provoking lecture and requested his co-operation and guidance in carrying biotechnology programmes at CTRI.

Sri B V. Ramakrishnayya, Director (Tech), Tobacco Board stressed the need for introducing alternate cropping system and requested the Director to organise a training programme on various cropping patterns. Sri K. S. N. Murthy, Scientist (SG) and Secretary (SRC) initiated the meetings. Dr. K. V. Satyanarayana proposed vote of thanks.

The technical programme of work for 1990-91 was discussed and finalised. The following important recommendations were made.

- 1 The application of potash may be omitted for a period of three years in Central and Northern black soil belts. In Southern black soils, essentiality of potash application may be reviewed and re-examined critically.
- 2 An on-farm trial will be taken up in Podili area to examine the feasibility of growing FCV tobacco as monsoon crop.
- 3 Hybrid vigour and heterosis studies may be taken up in non-FCV types also, particularly Chewing tobacco at the respective stations.
- 4 Development of quality parameters for non - FCV tobacco types which are exported are to be taken up on priority.



## RESEARCH HIGHLIGHTS

### CTRI, RAJAHMUNDRY

- \* FCV pipe line selections V-3189 L-1158 and L-1037 performed well in on farm trial plot in farmers field at Katheru.

### CTRI RESEARCH STATION, GUNTUR

- \* Among the new pipe line FCV varieties, V-3189 was significantly better under closed spacing (70cm X

50cm) while L-1158 was equally good at spacing of 70 cm X 50 cm or 80 cm X 50 cm.

### CTRI RESEARCH STATION, DINHATA

- \* The Wrapper tobacco variety HDW-10, which is in pre-release stage was tested in six locations viz. Adabari Natabari, Balakandi, B. Boalmari, Putimari and B. Nachina and an yield of 2250 kg/ha was obtained in Balakandi.

## OTHER ACTIVITIES

### INDEPENDENCE DAY CELEBRATIONS

44th Independence day was celebrated on 15-8-90 at the Institute. Dr. R. Sinha, Director In-Charge hoisted the flag. All the staff members attended the function.

### VANAMAHOTSAVA CELEBRATIONS

Vanamahotsava was celebrated on 20-8-90. Dr. M. S. Chari, Director. Scientists and Staff members planted neem, pongamia and other seedlings at CTRI complex, K. V. K. and CTRI farm, Katheru on this occasion.

### CYCLONE RELIEF FUND

Dr. M. S. Chari, Director handed over a draft worth of Rs. 27,282/- which is an amount of one day basic pay of CTRI employees, to Sri N. V. H. Sastry, IAS and collector, East Godavari District towards cyclone relief fund on 7-9-90. In a function arranged at CTRI, Rjy.

### CASH AWARDS

On 7-9-90 Sri N. V. Sastry, IAS, Collector, E. G. Dt. distributed cash awards constituted by the CTRI Employees Co-operative Credit Society to the children of society members who secured highest marks in Intermediate and 10th class public examination. Kum. J. Surekha D/o. J. A. V. Prasad Rao, Scientist (SG), and Mr. N. Johnson S/o Nalli Narayana Murthy, S. S. Grade-I. received 300/- each and Kum C. Aparna D/o. C.V.V.S.S.V. Gopala Krishna, Scientist (SG) and Mr. A. Lakshmana Rao S/o A G. K. Murthy, Scientist (SG) received Rs. 200/- each.

### HINDI WEEK CELEBRATIONS

Hindi week was celebrated from 11th to 17th September, 1990. Dr. M. S. Chari inaugurated the week. competitions in Hindi such as essay writing, letter writing translation, election, songs and kavitha were conducted during the week. Dr. R. Sinha presided over the valedictory function on 20th September and Dr. M. S. Chari



Dr. M. S. Chari inaugurating the Hindi Week



L to R : Dr. M. S. Chari, Mr. Y. V. Suryanarayana, Mr. M. Apparao, Mr. B. V. V. Satyanarayana Mr. Y. Prababhakar and Kum. J. V. R. L. Satya Vani.



L to R : Dr. M. S. Chari, Mr. N. S. Murty, Dr. T. Venkateswarulu, Mr. I. Jagadeesh Chandra and Mr. K. Ganesh babu distributed prizes to the winners in the competitions. Sri Ch. Srirama Rao, Hindi Asst. proposed vote of thanks.

### QUINQUENNIAL REVIEW TEAM VISIT

Quinquennial Review Team of AICRP on Biological control of crop pests consisting of Dr. T. Sankaran and Dr. S. Chellaiah, members and Dr. S. P Singh Project co-ordinator, Biological control visited CTRI Biological control unit on 18th and 19th September and reviewed the work done on Biological control of insect pests at CTRI Unit, Rajahmundry.



Dr. T. Sankaran, Dr. S. Chellaiah  
visiting Biological Control Unit.



## TRANSFER OF TECHNOLOGY

### FIELD DAY

Field Day on Kharif crops was conducted at CTRI Farm, Katheru on 20th August 1990. Dr. M.S. Chari Director presided over the function. Farmers from different villages attended and visited the crops. Scientists of CTRI, officials of Tobacco Board and farmers spoke on the occasion. Slide show on Kharif and Rabi Crops was arranged and literature on Kharif and Rabi crops suitable for tobacco grown vertisols was distributed to the farmers. A mini exhibition was also arranged in this connection.

### FIELD VISITS

A team of five scientists from Division of Agronomy, Genetics & Plant Breeding and Plant Protection visited the exploratory trials of FCV tobacco of Orissa, light soils (OLS) near Rayagada area on 31-8-90 and noticed that leaf curl and mosaic type diseases were 25% and 38% respectively in early planted crop. Late planted crop was relatively free. Pest incidence was negligible. FCV special was more attacked by leaf curl and mosaic while Bhavya and 16/103 were relatively free from disease incidence. TMV resistant varieties such as Godavari Special, MRS-4 and L-1158 also showed 'mosaic' like symptoms but were found to have different virus on investigation. The team suggested measures to control diseases and insect pest incidence on flue-cured tobacco crop of OLS area.

Sri S. Sitaramaiah, Scientist (SG) visited monsoon burley tobacco area around Parvathipuram and observed 20-80% of virus diseases (bushy top curly top) and stem borer and suggested measures to control them.



Dr. B. K. Tripathi visiting experimental plots

### FARMERS MEET

Farmer's meet was arranged at CTRI Research Station Jeelugumilli, Andhra Pradesh during the visit of Dr. B. K. Tripathi, ADG (CC) on 27-9-90 and doubts raised by the farmers were clarified. Dr. Tripathi, visited all the experimental plots and was highly impressed and appreciated the closed links between the scientists and farmers. He promised to extend full co-operation and financial help from the council to further expand and intensify the on-going activities of the research station in view of the importance of NLS tobacco.

### RADIO AND TV

- \* తూర్పు గోదావరి, విశాఖజిల్లాలలోని ఏజెన్సీ ప్రాంతాలలో బర్లీ పొగాకు సాగు, యాజమాన్య పద్ధతులు  
(Cultural practices of Burley tobacco in agency tract of East Godavari and Visakha Districts) by Sri R. Subba Rao, was broadcasted by AIR, Visakhapatnam on 12-7-90.
- \* వైట్ బర్లీ పొగాకు సాగు  
(Cultivation of White Burley tobacco) by Sri R. Subba Rao was broadcasted by AIR Vijayawada on 14-7-90.
- \* పొగాకు నారుమళ్ల పెంపకము, యాజమాన్య పద్ధతులు.  
(Cultural practices for tobacco nurseries) by Sri B. Nageswara Rao was broadcasted by AIR Vijayawada on 14-7-90.
- \* రానున్న దశాబ్దాలలో పొగాకు స్థితిగతులు,  
(Future of tobacco in the coming decade) by Dr M. S. Chari was broadcasted by AIR, Vijayawada on 6-8-90.
- \* పొగాకు నారుమళ్ళను ఆశించు తెగుళ్ళు, కీటకములు,  
(Control of pests and diseases in tobacco nurseries) by Sri G. Ramprasad was broadcasted by AIR, Visakhapatnam on 4-9-90.)
- \* పొగాకు నారుమళ్ళలో సస్య రక్షణ  
(Pest management in tobacco nurseries) by G. Ramprasad was broadcasted by AIR, Visakhapatnam on 6-9-90.
- \* వివిధ భూములలో సిఫార్సుచేసిన అనువైన పొగాకు వంగ  
దములు.  
(Tobacco varieties recommended for different soils) by Dr. K. V. Satyanarayana was broadcasted by AIR Visakhapatnam on 17-9-90.
- \* పొగాకు భూములలో ప్రత్యామ్నాయ పంటల సరళి.  
(Alternative cropping systems in tobacco soils) by M. Umamaheswara Rao was broadcasted on 19-7-90.
- \* "Tambaku Ki Unnat Kisme tatha Bichhar Ggane Ki vidhiin (Hindi) by S. N. Tripathi was broadcasted by AIR, Darbanga on 25-7-90.

## CONFERENCES/SYMPOSIA/SEMINARS/WORKSHOPS TRAINING COURSES

- \* Sri M. Umamaheswara Rao, Scientist (SG) participated in training course on "Human Resources Management" at National Academy of Agricultural Research Management, Hyderabad from 20-8-90 to 1-9-90.
- \* Dr. M. S. Chari, Director attended first National workshop on "Heliothis management, current status and future strategies" held at Kanpur on 30th and 31st August, 1990 and presented a paper - "Present status of Heliothis on tobacco and Strategies for its management in India."

## VISIT ABROAD

Dr. N. Krishnananda Scientist (SG) was deputed to USA for training on pre-project activity on Integrated pest management for a period of three months from 1-8-90.

## VISITORS

### CTRI, RAJAHMUNDRY

- Dr. P. M. Bhargava, Distinguished Scientist of Centre for Cellular and Molecular Biology, Hyderabad on 17-7-90.
- Sri N. V. H. Sastry, IAS, District Collector, East Godavari. Kakinada on 7-9-90.
- Dr. A. Narayana, Professor, Agriculture College, Bapatla on 24-9-90.
- V. T. Raju, Professor and Head Dept. Agricultural Economics. Agricultural College, Bapatla on 24-9-90.
- S. Narasa Reddy, Assoc. Professor, Dept. Agronomy, APAU, Hyderabad on 24-9-90.
- Sri Surendra Singh Birswan wale Jhajjon on 26-9-90.
- M. A. Rahiman, Assistant Director of Agriculture on 26-9-90.
- Dr. M. Rama Rao, Assistant Director of research Lam farm on 26-9-90.

### CTRI RESEARCH STATION, PUSA

- Dr. R. P. Mishra Assistant Director, Central Biological Control Station, Gorakhpur on 27-7-90.

### CTRI RESEARCH STATION, HUNSUR

- Sri Marnix Van Hyfte of Nitrate Sales International, Belgium visited Chilean nitrate field trials at Sollepura farm and farmer's fields on 13th and 14th August, 1990.

### CTRI RESEARCH STATION, JEELUGUMILLI

- B. K. Tripathi, ADG (CC) ICAR, New Delhi on 27-9-90.

## PAPERS PUBLISHED

1. DILIP MONGA. Variability among four isolates of *Fusarium oxysporum* f. sp. *nicotianae* causing wilt of *Nicotiana glauca*. Tob. Res. 15 (2) : 88-91, 1989.
2. DILIP MONGA. Incidence, survival and perpetuation studies on peduncle rot of *Nicotiana glauca* in West Bengal. Tob. Res. 15 (2) : 92-4, 1989.
3. DILIP MONGA. Reaction of some Motihari tobacco varieties against brown spot disease. Tob. Res. 15 (2) : 138-40, 1989.
4. DILIP MONGA and V. K. DOBHAL. Hookah and Chewing tobacco germplasm evaluation. II. Screening for resistance to brown spot. Tob. Res. 15 (2) : 150-3, 1989.
5. DOBHAL, V. K., N. S. MURTHY and C. R. NAGESWARA RAO. Genetic divergence in hookah and Chewing tobacco (*Nicotiana glauca* L.) Tob. Res. 15 (2) : 104-7, 1989.
6. DOBHAL, V. K., and DILIP MONGA. Hookah and Chewing tobacco germplasm evaluation. I. Variability for yield and quality characters. Tob. Res. 15 (2) : 142-5, 1989.
7. HUSSAINI, S. S. Comparative efficacy of dursufume and other fumigants against root-knot nematode and weeds in FCV tobacco nurseries. Indian J. Nematol. 89 (1) : 14-7, 1989.
8. HUSSAINI, S. S.; and J. S. L. MOSES. Effect of intensity of root-knot galling in seedlings on yield of Flue cured tobacco. Indian J. Nematol. 19 (1) : 18-20, 1989.
9. KRISHNA MURTHY, A. S.; C. V. RAO, and P. V. BHIRAVA MURTHY. Path analysis in Flue cured tobacco (*N. glauca* L.) Tob. Res. 15 (2) : 148-9, 1989.
10. KRISHNA MURTHY, G. V. G.; RAMJILAL and K. NAGARAJAN. Effect of plant extracts on *Meloidogyne javanica* larvae causing root-knot disease on tobacco. Tob. Res. 15 (2) : 100-2, 1989.
11. KRISHNA MURTHY, V.; P. R. S. REDDY and B. V. RAMAKRISHNAYYA. Effect of potassium fertilization on number of transplants, seedlings characters and K-uptake by FCV tobacco seedlings in a sandy soil having low available K status. Tob. Res. 15 (2) : 112-5, 1989.
12. KRISHNANANDA N. and S. V. V. SATYANARAYANA. A few factors influencing the performance of pheromone trap for *Spodoptera litura* F. male moths.
13. MURTHY, K. S. N.; S. S. PRASAD and R. SUBBA RAO. Studies on the leaf chemistry and quality of agency burley tobacco. Tob. Res. 15 (2) : 124-31, 1989.
14. NAGESWARA RAO, C. R.; and D. V. SUBBA RAO AND T. SITARAMACHARI. Note on optimum size and shape of experimental plot for flue-cured Virginia tobacco. Tob. Res. 15 (2) : 154-5, 1989.
15. VENKATESWARULU T.; U. SUBHASHINI and K. ANJANI. Another culture studies in white burley tobacco. Tob. Res. 15 (2) : 120-2, 1989.



## APPOINTMENTS

S. No	Name	Grade	Place of Duty	Date of Appointment
1	Sri. U. Sreedhar	Scientist S-1	Rajahmundry	20-7-90
2	Sri. K Sivaraju	Scientist S-1	Rajahmundry	20-7-90
3	Kum. M, Kampla	Jr, Clerk	Rajahmundry	23-8-90
4	Smt. Y. Nirmala Kumari	S. S. Grade-I	Rajahmundry	25-8-90

## RETIREMENTS

S No	Name	Designation	Place	Reason	Date
1	Sri . Seshagiri Rao	T-II-3	Rajahmundry	Superannuation	31-7-90
2	Sri Y Narasimha Rao	T-I-3	Rajahmundry	"	31-7-90
3	Sri P Thirumalaswamy	T-I-3	Vedasandur	"	31-8-90
4	Sri Upendra Jha	T-II	Pusa	"	30-9-90
5	Sri J C. Sharkra	S.S.Gr.III	Psua	"	30-9-90
6	Sri S A. Ahamed	T-I-3	Hunsur	"	30-9-90

## KRISHI VIGYAN KENDRA

### LOCAL MANAGEMENT COMMITTEE MEETING

Fifth local Management Committee of KVK was held at KVK, Rajahmundry on 2-7-90. Dr. M. S. Chari, Chairman of the committee welcomed the participants Dr. N. K. Sanghvi, Zonal Co-ordinator, Andhra Pradesh addressed the members of the Committee.

### TRAINING PROGRAMMES

28 in-service women functionaries viz. tailoring instructors were trained for one month from 9-7-90 to 9-8-90 on fibre products like decorative articles shoulder bags, hand bags, wall hangings, table mats etc. Besides training they were also taught lace making, gasket wall decoratives, shawl making and preservation of squashes, jams and pickles with seasonal fruits.

### OTHERS

Cattle vaccination camp was conducted in Sitarampuram village and 250 cattle were vaccinated against Black Quarter disease.

Social forestry day was conducted at Kalavacharla village on 30-7-90. About fifty farmers, teachers and school children participated and about 1000 plants were planted.

A lecture on "Safe Storage of food grains at farmers level" was given by Sri G. Ramprasad to RDA trainees on 6-8-90 at KVK, Rajahmundry.

### FARMERS MEET

A farmers meet was arranged at Kalavacharla instructional farm on 26-9-90. Dr. B. K. Tripathi, A. D. G. (CC) ICAR was the chief guest, and Dr. M. S. Chari presided over the function. Dr. M. A. Rehaman, Additional Director of Agriculture, Sri M. Rama Rao Associate Director of Research, Lam farm and Sri. Jayanandam, JDA had attended. About fifty farmers visited the demonstration plots of Dry paddy, Wet paddy Pulses and Oil Seeds,



Dr. N.S. Sanghvi addressing the members.



Dr. M. S. Chari addressing the TRYSEM trainees.

## महत्वपूर्ण घटनाएं

अनुसंधान कर्मचारी परिषद की बैठक :

दिनांक 17-7-90 से 20-7-90 तक केन्द्रीय तम्बाकू अनुसंधान संस्थान राजमन्त्री में अनुसंधान कर्मचारी परिषद की बैठक हुई। इस बैठक में तम्बाकू परियोजना समन्वयक डा. आर. लक्ष्मीनारायण तम्बाकू बोर्ड के तकनीकी निदेशक डा. बी. वी. रामकृष्णय्या, मेसर्स आई. एल. टी. डी. लिमिटेड के डा. टी. एस. सुब्रह्मण्यम और श्री एन. रामा राव, केन्द्रीय तम्बाकू अनुसंधान संस्थान, राजमन्त्री तथा इसके अनुसंधान केन्द्रों और बीडो तम्बाकू अनुसंधान केन्द्र, आनंद के वैज्ञानिकों ने भाग लिया।

इस समारोह का उद्घाटन सेल्यूलर और मोलेब्यूलर बायोलॉजी केन्द्र हैदराबाद के विख्यात वैज्ञानिक डा. पी. एम. भार्गवा ने किया। डा. एम. एस. चारी, निदेशक, केन्द्रीय तम्बाकू अनुसंधान संस्थान ने अपने स्वागत भाषण में जैव तकनीकों के विकास की आवश्यकता पर जोर दिया जो कृषि उत्पादन के लिए एक अत्याधुनिक साधन है। उससे फसल उत्पादन में क्रांतिकारी उपलब्धि की आशा की जाती है। इस अवसर डा. पी. एम. भार्गवा ने "भूत, वर्तमान और भविष्य में जैव तकनीकों की भूमिका पर विशेष व्याख्यान दिया जिससे वैज्ञानिकों को इस विषय पर विशेष जानकारी एवं इस पर काम करने की उत्प्रेरणा प्राप्त हुई। डा. भार्गवा ने यह भी सचेत किया कि जैविक अस्त्र परमाणु अस्त्रों से ज्यादा खतरनाक साबित हो सकता है।

वर्ष 1990-91 के लिए तकनीकी कार्यक्रम पर चर्चा हुई और उसे अंतिम रूप दिया गया।

### अनुसंधान उपलब्धियां

केन्द्रीय तम्बाकू अनुसंधान संस्थान, राजमन्त्री :

कातेरु में कृषकों के क्षेत्र पर किये गये प्रयोगों में एफ. सी. वी. पाइप लाइन सेलेक्शन बी-3189, एल-1158 और एल-1037 अच्छे पाये गये।

केन्द्रीय तम्बाकू अनुसंधान केन्द्र, गुण्टूर :

नये एफ. सी. वी. किस्म बी-3189 के लिए 70 से. मी × 50 से. मी तथा किस्म एल-1168 के लिए 70 से. मी. × 50 से. मी. या 80 से. मी. × 50 से. मी. दूरी उचित पाया गया।

केन्द्रीय तम्बाकू अनुसंधान संस्थान, दिनहटा :

रेपर तम्बाकू का नई किस्म एच. डी. डब्ल्यू - 10 के छः जगहों-अडाबरी, नटाबारी, बालकाडी, बो बोल-मरी, पुटिमरी और बो नचीना में परीक्षण की गयी जिसमें प्रति हेक्टेयर 2250 कि. ग्रा. तक उपज पायी गयी।

### तकनीकी स्थानांतरण

दिनांक 20-8-90 को सी. टी. आर. आई, राजमन्त्री के कातेरु फार्म में खरीफ फसलों पर क्षेत्र दिवस का आयोजन किया गया। निदेशक डा. एम. एस. चारी ने इसकी अध्यक्षता की। खरीफ और रबी की फसलों के उन्नत पद्धति या कृषकों को स्लाइड दिखलाया गया। तम्बाकू के फसल क्रम में उगानेयोग्य खराफ़ और रबी फसलों पर तैयार उचित साहित्य कृषकों में बांटा गया।

दिनांक 27-9-90 को डा. बी. के. त्रिपाठी, सहायक महानिदेशक (सी.सी.) के आगमन पर सी. टी. आर. आई अनुसंधान केन्द्र, जिलुगुमिल्ली (आंध्र प्रदेश) में कृषक मेला का आयोजन किया गया।

हिन्दी सप्ताह समारोह :

केन्द्रीय तम्बाकू अनुसंधान संस्थान, राजमन्त्री में दिनांक 11-9-90 से 17-9-90 तक हिन्दी सप्ताह मनाया गया। डा. एम. एस. चारी, निदेशक ने इस समारोह का उद्घाटन किया। अन्य कार्यक्रमकलाप :

डा. एम. एस. चारी, निदेशक ने दिनांक 7-9-90 को पूरब गोदावरी जिला कलक्बर श्री एन. वी. एच. शास्त्री को चक्रवात राहत निधि के लिए संस्थान के कर्मचारियों की ओर से एक दिन का वेतन 27,282 रुपये का ड्राफ्ट भेंट-किया।