

समाचार Newsletter

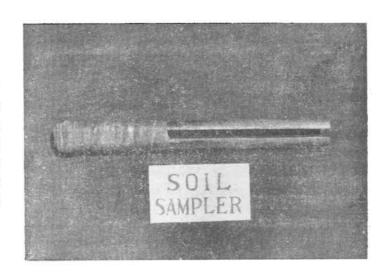
Vol. 12 No. 2 APRIL-JUNE 1990

CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY

MAJOR EVENTS

NEW VARIETY RELEASED

A new high yielding Chewing tobacco variety (H. P.76-1) evolved by CTRI Research Station, Pusa has been released for commercial cultivation by the Central Subcommittee on Crop Standards, Notification and Release of varieties at its 15th meeting held at New Delhi for general adoption in the Chewing tobacco belt of Bihar. This new variety has been named as Pusa Tobacco -76



RESEARCH HIGHLIGHTS

At Rayagada (Orissa light soils) flue-cured tobacco nurseries have been sown during the second fortnight of April, 1990. The seedlings have comp up well. Transplantation of seedlings of five varieties *Viz.* Bhavya, Godavari Special, McNair-12, 16/103 and FCV special was done in the field on 20-6-90. Bhavya and FCV were included to test their performence at three doses of Nitrogen levels *Viz.* 40, 50 and 60 kg/ha under three dates of planting at 10 days interval.

CTRI, RAJAHMUNDRY

One soil sampler was developed for collecting undisturbed core of soil samples from root zenes of tobacco. It consists of an iron tube (triangular main tubular body of a discarded cycle) of 40 cm long X 2.5 cm dia X 1 mm thick, which is split into two longitudinal halves and a wooden block of 15 X 4 X 2.5 cm is fitted in between the two halves of the split iron tube at one end with screw nails. The ultimate unit looks like a fork with 15 cm handle part, 25 cm free fork ends with the cut edges 1.5 cm apart. It freely penetrates

and collects an undisturbed core of soil sample (200 ml) as deep as 20 cm. The sampler is very useful to collect undisturbed core of soil samples from root zones of tobacco crop for various studies in nematological works, Physical and biological properties of soils. The sampler is cheap (Rs. 12/-) efficient and also found much better than the standard soil sampling tubes.

CTRI RESEARCH STATION, GUNTUR

- * Trial with promising varieties and selections of FCV tobacco under different plant spacings and nitrogen levels showed that 70 X 50 cm (28,500 pl/ha) spacing and 30 kg N/ha are better for higher productivity of quality leaf.
- * In field trial on tobacco based cropping system the greengram mustard-fallow tobacco and greengram or groundnut or sorghum-redgram-fallow-tobacco cropping sequences were adjudged to be the best for giving higher yield and quality of tobacco.

- * In the experiment breeding for superior varieties of natu tobacco, selection II-1152 and II-1148 were found significantly better than WAF in respect of cured leaf.
- * The yield performance of selection II-409 was outstanding in exploratory trials conducted in natu tract of Kurnool, Mahaboobnagar and Nandyala.

CTRI RESEARCH STATION, VEDASANDUR

- * Pre-planting root inoculation of chewing tobacco seedlings with Azospirillum brosilence resulted an increase of 4.5 and 3.9 percent of whole leaf and total leaf Yield respectively of chewing tobacco over uninoculated control.
- * The results from an irrigation water and fertilizer management experiment showed that scheduling irrigation at 1.0 I.W/ CPE ratio comparable to farmers practice and mixed ratio (0.5 + 1.0 + 1.75) increased yields of Chewing tobacco. The water use efficiency of 1.0/ I.W/ CPE ratio (5.85 kg/mm) and mixed ratio (5.89 kg/mm) was greater than that of farmer's practice (5.10 kg/mm) there by saving 120 and 150 mm water respectively by these schedules. Further the crop responded upto 105 kg N/ha.
- * Four selections Viz. HV. 84-5-1/2, HV. 84-5-2/1, HV. 85-4-2/3 and HV. 84-5-3/1 of the cross Thangam X

- DWFC showed greater homozygocity with regards to caterpillar attack and farmers preferred to cultivate these lines.
- * Advanced breeding line HV. 80-4, produced an average yield of 3,895 kg/ha recording an increase of 15.1% than the control variety Bhagyalakshmi (3.462 kg/ha) in the outstation trials over a period of 6 years. This line is chosen for release proposal.
- * The Cigar advanced breeding lines HV. 85-5 and HV. 85-6 performed well in all the out-station trials with an average yield increase of 21.6 and 14.2 percent respectively over the control variety Krishna.
- * Natu genotypes DG-4, KVT and Kornipadu Vithanam performed well and showed an yield increase of 34.2, 14.6 and 11.0 percent over I-737 respectively.

CTRI RESEARCH STATION, HUNSUR

A commercial nursery in an area of 3045 sq m was raised at Sollepura farm with improved nursery management technology viz. fumigation with Durofume and soil drench of Redomil MZ 72 WP together with spray schedule under development scheme sponsored by Directorate of Tobacco Development. 17, 79, 805 seed. lings were obtained and 16,44,000 were sold and realised Rs. 64,989/-.

OTHER ACTIVITIES

CYCLONE DAMAGE

It was due to Cyclone on 9th and 10th May, 1990 CTRI Research Station, Guntur incurred heavy loss as the katcha sheds, cattle shed, coal shed, solar energy barn and traditional barns were heavi'y damaged. The committee headed by Dr K Nagarajan, Principal Scientist estimated the loss to be about Rs. 10 lakhs

HONOURS AND AWARDS

Sri. R. P. Srivastava, Scientist (SG), has been awarded Ph. D degree in chemistry by L. N. Mithila University, Darbhanga.

FELICITATION

Sri P. P. Williams, IAS, Chairman, Tobacco Board, Guntur was felicitated by Scientists and officers of CTRI on relinquishing the charge of Chairman, Tobacco Board.



Dr. M. S. Chari, Presenting Memento to Sri P. P. Williams

TRANSFER OF TECHNOLOGY

DEMONSTRATION ON BURLEY TOBACCO NURSERY MANAGEMENT

Two demonstrations are in progress on integrated pest management in burley tobacco nursery at Dusorapamu and Zaderu villages of Rajavommangi and Addatigala mandals of East Godavari District with the collaboration of M/s. ILTD and M/s. G. P. I. Ltd.

RADIO & TV

Sri S. K. Naidu, Scientist gave a radio talk on వల్లరేగడి వర్జీనియా పొగాకు భూములలో వేసవిలో లోతు దుక్కుల ఆవశ్యకత. (Importance of deep ploughings in summer in black soils growing flue-cured tobacco) and broadcasted by AIR, Visakhapatnam on 13-4-90.

Dr. P. Harishu Kumar, Scientist (SG) gave a radio talk on నల్ల రేగడి భూములలో ఖరీఫ్లో పేయదగిన పంటలు. (Suitable Crops for black cotton soils during Kharif Season) and broadcasted by AIR, Visakhapatnam on 11-5-90.

FARMERS DAY

Dr. C. V. Raghavaiah, Officer-in-Charge and Dr. R.V.S. Rao, Scientist (SG) attended the farmer's day at ACRI, Madurai, on 23-3-90.

CONFERENCES/SYMPOSIA/SEMINARS/ WORKSHOPS/TRAINING COURSES

• Dr. K. Nagarajan, Principal Scientist, Sri G. Ramaprasad, Head Div. Plant Protection and Sri R. S. N. Rao Scientist (SG), participated in Indo-USSR Joint workshop on "Problems and Potentials of biological control of crop pests and diseases" held at Bangalore from 26-28 June, 1990. Sri R. S. N. Rao presented the work on biological control of tobacco pests in India.

* Dr. S. S. Hussaini, Scientist (SG), attended the International symposium on "Genetic Engineering and Tissue culture for crop pest and disease management" at TNAU, Coimbatore on 13-15 June, 1990.

VISITORS

CTRI, RAJAHMUNDRY

- Sri B. S. Ram Mohan Rao, Assoc. Professor, Haryana
 Agric. Univ. Hissar on 22-5-90.
- Sri N. Mandal, Manager, Quality control and Sri A.K.
 Jha, Leaf Manager, Janakour Cigarette Factory Ltd,
 Nepal on 30-5-90.

CIRI RESEARCH STATION, VEDASANDUR

- Dr. Subbayya, Agronomist and Scientist-in-charge of tobacco scheme; ARS, Bhvanisagar on 5-4-90.
- Sri G. Y, D. Ponnayya, ITC Manager, Calcutta on 6-4-90.
- Prof. M. Samayappan, Dept. of Entomology (TNAU),
 Coimbatore along with his two collegues on 21-4-90
 and held discussions regarding testing of NPV on Prodenia.

CTRI RESEARCH STATION, HUNSUR

- Sri Ehud Almon, Agronomist and Hydronomist, M/s.
 Bromine and Chemicals, London.
- Sri A. H. A. Bucker, Development Manager, M/s.
 Rallis India, Bangalore,
- Sri Krishna Kulkarni, M/s. Technochem Agencies
 Pvt Ltd Bombay.
- Dr. Narayanan, Scientist (SG), NCIPM, Bangalore on 1-6-90.

PAPERS PUBLISHED

- promising lines of Chewing tobacco for North Bihar. Indian Tob. J. 20: 13-15, 1989.
- 2. CHARL MS and G. RAMAPRASAD. Integrated 6. Control of pests on Tobacco. In National symposium on "Integrated pest control - progress and perspectives" Oct. 15-17, 1987 proceedings. Nov. 1988 pp 42-52.
- 3. CHARI, MS; R. S. N. RAO; S. R. PRABHU and S. GUNNESWARA RAO. Nicotine sulphate: An effective botanical pesticide, Indian Farming 39 (11): 28-9, 1990.
- 4. CHARI, MS. india improves yields, quality to regain lost export position. Tob. Int. 192 (3): 26, 1990.

- 1. AMARANATH, S. Performance of recently evolved 5. KRISHNAMURTHY, G. V. G. Two new methods for broomrape (orobanche) control in tobacco. Eenadu 17-8.90. pp 2
 - PRASANNASIMHA RAO, G. S. B; J. S. L. MOSES; S. KRISANAMURTY and M. ILYASAHMED. MARA-GADHAM- an early maturing, high yielding chewing tobacco variety for Tamilnadu. Madras Agric. J. 76 (8): 477-9, 1989.
 - 7. TRIPATHI, SN and B. L. SINGH. Influence of mulching, Irrigation and fertiliser levels of the yield and quality of Jati tobacco (N. tabacum L) Indian Tob. J 20 (4): 7-12, 1989.
 - 8. UMAMAHESWARA RAO, M and T. SITARAMA-CHARI. Cultural Practices for HDBRG tobacco in black soils of Andhra Pradesh Bharatiya Pogaku 18 (4): 3-5, 1988.

APPOINTMENTS

S. No.	Name	Grade	Place of duty	Date of Appointment
1	Sri P. Kashaiah	Technical Officer T-5	Hunsur	2-4-1990
2	Sri B, Mahto	S. S. Gr. I	Pusa	5-4-1990
3	Sri Ramsreshth Jha	S. S. Gr. I	Pusa	5-4-1990
4	Sri Rama Paswan	S. S. Gr. 1	Pusa	6-4-1990
5	Sri Gajendra Barman	S, S , Gr. I	Dinhara	10-4-1900
6	Sri Ramesh Biswas	S. S. Gr. 1	Dinhata	10- 4-1990
7	Sri Iswar Chandra Mahanto	S. S. Gr. I	Dinhata	10-4-1990
8	Dr. C. Chandra Sekhara Rao	Scientist S-1	Rajahmundry	16-5-1990
9	Sri Ram Bhadur Rai	S. S. Gr. I	Pusa	14-6-1990
10	Sri Satya Srinivas	T-II-3	Hunsur	18-6-1990

RETIREMENTS

S. No.	Name	Designation	Place	Retirement Reason	Date
1	Sri Y. Ismail	S. S. Gr. 11	Rajahmundry	Inv a lidati o n	17-4-90
2	Sri V. Appa Rao	Tech. T-1	Rajahmundry	Superannuation	30-6-90
3	Sri Ambica Barman	S. S. G I	Dinhata	Suparannuation	30-6-90
4	Sri Lalit Barman	S. S. Gr. I	Dinhata	Superannuation	30-6-90
5	Sri Mahendra Barman	S. S. Gr. 1	Dinhata	Superannuation	30-6-90

KRISHI VIGYAN KENDRA

TRAINING PROGRAMMES

- * A total of 16 training programmes were conducted under Crop production, Live Stock production, Horticulture, Home Science and Rural Crafts and 450 trainees were benefited by these programmes.
- * 120 Farmers, Field assistants and supervisors of Tobacco Board were trained in Burley tobacco nursery management in collaboration with ILTD/ITC Ltd. on 3-5-90.



Sri N. Peraiah, Dr. K. Nagarajan and Sri M. Sannibabu

LONG DURATION PROGRAMMES

- * Twenty three tailoring instructors were trained on preparation of decorative articles and hand bags with banana and mesta fibres. They were also trained in lace making, shawl making and embroidery works. Preparation of squashes, Jams and Pickles were also demonstrated.
- * In collaboration with District Rural Development Agency, Eluru, one month long duration skill oriented "Training of rural youth for self employment" (TRYSEM) training programme on fibre products and embroidery was organised for rural youth from 4-6-99 to 3-7-90.



Asst. Project Officer (Industries) DRDA Eluru, Dr. M. S. Chari, and Sri M. Sannibabu

संक्षिप्त समाचार

मुख्य घटनाए :

नये विश्मित किस्म : विहार के खैनी तम्बाकू क्षेत्रों के कृषकों के लिए सी.टी.आर. आई अनुसंघान केन्द्र, पूसा द्वारा अधिक पैदावर वाली खेनोतम्बाकू को नईकिस्म-एच. यी. 76-1 विकसित की गयी है। सस्य मानक, अधिसूचना और किस्म विमोचन केन्द्रीय उप समिति दिल्ली ने उसे अपनी पंद्रहवीं बैठक में बिहार के क्षेत्रों के लिए विश्मित किया। इस नयी किस्म का नाम "पूसा तम्बाकू—76" रखा गया है।

प्रमुख अनुसंधान उपलब्धियां :

उड़ीसा के रायगढ़ा क्षेत्र के हल्की मिट्टियों के लिए अप्रैल 1990 के दूसरे पखवारे में दर्जी निया तम्बाकू की नर्सरी बोयी गयी थी जिससे अच्छे पौदे निकले हैं।

तम्बाकू के जड क्षेत्र से हुबहू मिट्टी के नमूने संग्रहण करने के लिए एक मिट्टी नमूना यंत्र बिकास किया गया है। यह सुगमता से 20 से. मी. गहराई तक घुस सकता है और 200 घन से. मी. तक की मिट्टी के नमूने संग्रह कर सकता है। यह नमूना यंत्र नेमोटोलोजिकल कर्यों और मिट्टी के भौतिक रासायनिक और जैविक गुणों पर अध्ययनों के लिए नमूने संग्रहण करने में बहुत उपयोगी पाया गयी है। यह यंत्र सक्षम और सस्ता (12 रुपये) हो नहीं बल्कि मानक मिट्टी के ट्यूबों से भी अधिक अच्छे साबित हुआ हैं।

गंदूर क्षेत्र के लिए तम्बाकू पर आधारित सस्य क्रम योजना के अन्तर्गत क्षेत्र परीक्षणों में मूंग-सरसों के बाद तम्बाकू और मूंग या मूंग-फली या ज्वार-अरहर के बाद तम्बाकू गुणता एवं पैदावर के लिए बहुत अच्छे सिद्ध हुए हैं। वेदसंदूर के उन्नत प्रजनन लाइन एच. वी. 80 —4 ने औसतन 3 , 89 5 कि. ग्रा. प्रति हेक्टेयर पैदावर दिया है। छः सालों के बाहरी परीक्षणों में इस प्रकार भाग्यलक्ष्मी को तुजना में ($^{3.462}$ कि.ग्रा. प्रति हेक्टेयर) इस किसमने 15 . प्रतिज्ञत अधिक उपज दी है। इसे विरमित करने के लिए प्रस्तावित किया गया है।

सोल्लेपूर फार्म हुंसूर में 3045 वर्ग मीहर क्षेत्र में संशोधित नसरी प्रबंध तकनीकी यानी स्प्रे शेड्यूल के साथ ड्यूरोफ्यूम सहित धूमन और रेडोमिल एम. जेड़ 72 डब्ल्यू पी. मिट्टी में डालकर तथा छिडकाव करके एक वाण्डिय नसँरी उगायी गयी जो काफी सफल पायी गयी है।

दरभंग के एल. एन. मिथिला विश्व विद्यालय द्वारा रसायन विज्ञान में पो. एच. डो उपाधि श्री आर. पी. श्रीवास्तव, वरिष्ठ वैज्ञानिक को प्रदान की गयी है।

कृषि विज्ञान केन्द्र

सस्य उत्पादन, पशु-धन उत्पादन बागवानी, गृहविज्ञान तथा ग्राम्य दस्तकारी में कुल मिजाकर 16 प्रशिक्षण कार्यक्रम आयोजित किये गये जिससे 450 प्रशिक्षणाथियों ने भाग लेकर फायदा उठाया।

3 मई, 1990 को आई. एल. टो. डो/आई. टो. डी. के सहयोग से आयोजित बर्ली तम्बाकू नर्सरी प्रबंध प्रशिक्षण में तम्बाकू बोर्ड के पर्यवेक्षकों एवं क्षेत्रीय सहायकों अलावा 120 कृषकों ने प्रशिक्षण पाया।

"ग्रामीण युवा स्वयं नियोजन प्रशिक्षण कार्यक्रम" के अन्तर्गंत रेशे की वस्तुएँ और कशीदाकारी में ग्रामीण युवा को एक महीने का कौशलता प्रशिक्षण दिया गया।

Edited & Compiled by Y. V. Suryanarayana & M. Ramam. Hindi Version by Ch. Srirama Rao.