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CENTRAL TOBACCO RESEARCH INSTITUTE

Newsletter

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RESEARCH HIGHLIGHTS

CTRI, Rajahmundry

- Promising cultures/ hybrids identified for replicated trials:

CTRI Rajahmundry: R2-3, HR-1, V 4270, V 4367, TBSH-1, TBSH-2, 75-30MS x Cy 79, AP1-8 x 312-1S4, 55MX1-2-11, 312-1S4, R43-2, VLCR-25-12 (productivity increase 10-38% over ruling check variety).

CTRI RS, Jeelugumilli: NLCR, NLCR-10, NLCR-7, NLCR-4, NLCR-5, NLCR-7(k), RT101-1, 99-13-18, 323K-31-1, 312MC-1, N-7, MS-VT x JS-78 (productivity increase 9-42%).

BTRC, Jeddangi: YB-10, YB 4 (more than 80% increase in productivity).

- Solanesol content in *Nicotiana* species varied from non-detectable levels to 3.15%. Following lines were identified as high solanesol lines on the basis of two-year study: EC554900 (*N. tabacum*), TW 69 (*N. hesperis*), TW 72 (*N. kawakamii*), EC554943 (*N. suaveolens*), TW 142 (*N. tomentosiformis*).
- The cross GT-7x A-145 recorded higher biomass whereas A-145 XGT-7 recorded higher seed yield. Higher nicotine content was observed in A-145 followed by A-145x GT-7 cross.

- Addition of sticker improved the rain fastness and increased the persistent toxicity of chlorpyrifos and acephate to *S. litura* on tobacco.

- *Pseudomonas fluorescens* @ 3 L/3 kg seed treatment was found to be promising for controlling damping-off in tobacco nurseries.

- In tobacco germplasm lines, tobacco seed oil content varied from 20.88 to 38.15%.

CTRI RS, Veda sandur

- HV.97-10 (Sangami) a high yielding country cheroot tobacco variety with a yield potential of 3,265 kg/ha was identified for release by IRC-2007.

CTRI RS, Hunsur

- Out of 33 germplasm materials screened against root-knot nematodes under sick field conditions, 14 materials recorded RKI <2.0 and were found most promising.

- Propiconazole (a triazole compound) is effective against soreshin disease caused by *Rhizoctonia* sp. in nursery.

- Combined application of *Pseudomonas fluorescens* @ 1 g/ plant with *Aspergillus niger* enriched FYM @ 100 g/plant at

time of planting caused 61.4% reduction in wilt disease, 48% reduction in root-knot Index and 25.8% increase in total cured leaf yield.

- Application of *Pseudomonas fluorescens* @ 5 g/m² in FCV tobacco nursery caused 52.9% reduction in final soil population with RKI of 1.85 compared to 3.50 in check. Resultant increase in root-knot free healthy transplants yield was 54.4% over check.

FOUNDATION DAY & DIAMOND JUBILEE CELEBRATIONS OF CTRI

Dr. V. Krishnamurthy, Director inaugurated the Diamond Jubilee Celebrations of CTRI on 2.4.2007 by lighting the lamp, coinciding with the Foundation Day of the Institute. Retired scientists, officers, officials from all the cadres were also invited to grace the occasion. Director gave a birds-eye-view of the sixty years of Tobacco Research through a power-point presentation.



Dr. V. Krishnamurthy, Director, CTRI inaugurating the Diamond Jubilee Celebrations by lighting the lamp

TRANSFER OF TECHNOLOGY

RYTHU SADASSU

□ A Farmers Meet was organized on 'Successful raising of burley tobacco nursery and burley tobacco cultivation' in the agency area at Burley Tobacco Research Centre, Jeddangi on 20.4.2007 in collaboration with M/s Mittapalli Adinaraya & Co. About 100 tribal farmers have participated in the meet. Dr. V. Krishnamurthy, Director explained production technology for nursery management, fertilizer application, field crop management, grading and NTRM. Sri R. Subba Rao and Dr. C.V. Narasimha Rao, Principal Scientists of CTRI and Sri P. Ramana Rao, Manager, M/s. Mittapalli Adinarayana & Co., have also attended.

□ Rythu Sadassu was organized in the premises of CTRI Research Station, Guntur on 11.6.2007 by the State Government of Andhra Pradesh. Sri Kanna Lakshminarayana, Minister of State Transport, Sri Murugudu Hanumantha Rao, Minister, Sarvashiksha Abhiyan, Sri Dokka Manikya Varaprasad, MLA, Tadiknoda, Sri Raavi Venkataramana, MLA, Prathipadu, Sri Md. Ali Rafath, Collector, Guntur, Dr. P. Ajit Kumar, JDA, Guntur and several other Govt. Representatives have graced the occasion. Sri M. Sannibabu, Dr. Y. Subbaiah and Dr. S. Kasturi Krishna, Scientists of CTRI, Sri S. Nageswara Rao, Sri R. Sudhakar, Technical Officers have attended. About 3000 farmers from Guntur Division have participated. In this occasion an exhibition was arranged for the benefit of farming community with about 75 stalls put by various firms and organizations, including CTRI and KVK.

□ Rythu Sadassu was organized by the Department of Agriculture, Eluru at J.R.Gudem on 7.6.2007. Dr. K. Nageswara Rao, Dr. U. Sreedhar and Dr. S. Kasturi Krishna, Sr. Scientists have attended.

□ Rythu Sadassu was organized by the Department of Agriculture, Eluru at Denduluru on 10.6.2007. Dr. S.V. Krishna Reddy and Dr. J.V. Prasad, Sr. Scientists have attended.

CONFERENCES/ TRAININGS/ WORKSHOPS ATTENDED

□ The following scientists have attended farmers' training programme on "Nursery management and plantation of seedlings in field".

- Dr. M.M. Shenoi and Sri K.N. Subrahmanya at Neelangala, Chikkabemmathi, Jadagana-koppalu and Doddabelalu on 19.4.2007, 23.4.2007, 26.4.2007 and 30.4.2007, respectively.

- Dr. M.M. Shenoi at Beeranahally on 24.4.2007.

- Dr. M.M. Shenoi and Sri M. Mahadevaswamy at Chennakeshavapura on 25.4.2007.

- Sri K.N. Subrahmanya and Dr. M. Mahadevaswamy at Muthinahundi on 27.4.2007.

□ Dr. T.G.K. Murthy, Sr. Scientist attended "37th Annual Group Meeting of AICRP (Soybean)" at UAS, Dharwad from 28.4.2007 to 30.4.2007.

□ Dr. M. Kumaresan, Sr. Scientist attended on day workshop on "Share your experiences on seed production, marketing, trading, intellectual property rights and its implementation" at SBI, Coimbatore on 28.4.2007.

□ Sri S. Gunneswara Rao, Scientist (SG) attended XVI Bio-controls workers Group Meeting on "Biological control of crop pests and weeds" at ANGRAU, Hyderabad from 18.5.2007 to 19.5.2007.

□ The following scientists have attended farmers' training programme on "FCV tobacco field crop management".

- Dr. M.M. Shenoi and Dr. M. Mahadevaswamy at Siddapura on 21.5.2007.

- Dr. M.M. Shenoi and Sri K.N. Subrahmanya at Malangi and M.G. Kopalulu on 22.5.2007 and 24.5.2007, respectively.

- Dr. M.M. Shenoi and Sri C. Mahadeva at Kalkere on 23.5.2007.

- Sri K.N. Subrahmanya and Dr. M. Mahadevaswamy at Kudloor on 25.5.2007.

- Dr. M. Mahadevaswamy and Sri C. Mahadeva at Hardur on 28.5.2007.

- Sri K.N. Subrahmanya and Sri C. Mahadeva at Moodala-koppalu on 29.5.2007.

- Dr. M. Mahadevaswamy at Chennagundi on 30.5.2007.

□ Dr. T.G.K. Murthy, Sr. Scientist attended the first training-cum-workshop on "IPR and technology management in ICAR System" at NAARM, Hyderabad from 28.5.2007 to 30.5.2007.

□ Dr. C.V. Narasimha Rao, Principal Scientist attended training programme on "The Right to Information Act" conducted by Institute of Public Administration at Bangalore from 15.6.2007 to 16.6.2007.

RADIO TALKS

- ❑ కూరగాయల సాగులో మెళకువలు by Sri E. Vijayaprasad, Tech. Officer, on AIR, Vijayawada on 2.4.2007.
- ❑ ఆరోగ్య పరిరక్షణలో సురక్షితమైన ఆహారం by Smt. V.V. Lakshmi Kumari, Tech. Officer, on AIR, Visakhapatnam on 12.4.2007.
- ❑ వర్షీనియా పొగాకు సాగుకు అనువైన నేలలు, భూసార పరిరక్షణ ప్రాముఖ్యత by Dr. C. Chandrasekhara Rao, Sr.Scientist, Crop Chemistry & Soil Science Division, on AIR, Visakhapatnam on 18.04.07.
- ❑ పండ్ల తోటలకు భూముల ఎంపికలో మెళకువలు by Sri E. Vijayaprasad, Tech. Officer, on AIR, Visakhapatnam on 19.4.2007.
- ❑ గ్రామీణ మహిళలకు వ్యవసాయ ఆధారిత స్వయం ఉపాధి కార్యక్రమాలు by Sri R. Sudhakar, Tech. Officer, on AIR, Visakhapatnam on 23.5.2007.
- ❑ పురుగుల ఉనికిని పసిగట్టే పద్ధతుల ద్వారా వర్షీనియా పొగాకులో నష్టరక్షణ Interview - Dr. U. Sreedhar, Sr. Scientist, Crop Protection Division, on AIR, Visakhapatnam on 8.6.2007.
- ❑ ఆహార ఉత్పత్తుల తయారీలో సౌరశక్తి వినియోగం by Smt. N. Aruna Kumari, Tech. Officer, on AIR, Vijayawada on 11.6.2007.
- ❑ పశువులలో వైరస్ బ్యాక్టీరియాల వల్ల వచ్చే జబ్బులు, లక్షణాలు - చికిత్స by Dr. P.V.V.S. Siva Rao, Tech. Officer, on AIR, Vijayawada on 15.6.2007.
- ❑ ఏజన్సీ ప్రాంతంలో బర్లీ పొగాకు నారుమళ్ళు యాజమాన్యం Interview - Dr. P. V. Venugopala Rao, Sr. Scientist, Crop Improvement Division on AIR, Visakhapatnam on 16.6.2007.
- ❑ వ్యవసాయ పంటలలో సహజ నష్టరక్షణ by Dr. Y.Subbaiah, Programme Coordinator, on AIR, Visakhapatnam on 20.6.2007.

T.V. TELECAST

- ❑ "Interactive session with farmers by scientists" by Dr. Y. Subbaiah, Programme Coordinator on Saptagiri (DD-8) on 2.4.2007.
- ❑ "Management practices in cashew" by Sri E. Vijayaprasad, Tech. Officer on Saptagiri (DD-8) on 2.4.2007.
- ❑ "Dairy management" by Dr. B. John Babu, Tech. Officer on Saptagiri (DD-8) on 2.4.2007.
- ❑ "Backyard poultry" by Dr. P.V.V.S. Siva Rao on Saptagiri (DD-8) on 2.4.2007.
- ❑ Issues related to tobacco crop" by Dr. M.M. Shenoi, Principal Scientist & Head, CTRI Research Station, Hunsur on Udaya TV on 12.5.2007.

RETIREMENTS

- ❑ Sri D. Dasu, SS Gr.IV, CTRI Research Station, Hunsur retired from Council's service on 30.4.2007.
- ❑ Sri V. Subrahmani, SS Gr.II, CTRI Research Station, Veda sandur retired from Council's service on 30.4.2007.
- ❑ Dr. K. Palanichamy, Sr. Scientist & Head i/c, CTRI Research Veda sandur retired from Council's service on 31.5.2007.
- ❑ Dr. C. Venkata Rao, Sr. Scientist, CTRI, Rajahmundry retired from Council's service on 30.6.2007.
- ❑ Sri Y.V. Suryanarayana, Tech. Officer T-8, CTRI, Rajahmundry retired from Council's service on 30.6.2007.
- ❑ Sri N. Venkata Rao, FACO, CTRI, Rajahmundry retired from Council's service on 30.6.2007.

OBITUARY

Sri V. Suryanarayana Murthy, SS Gr.IV, CTRI, Rajahmundry expired on 4.5.2007.

IBSC Meeting Organized

Institutional Bio-safety Committee (IBSC) meeting was organized on 28.5.2007 under the Chairmanship of Dr. V. Krishnamurthy, Director, CTRI and Chairman, IBSC. The IBSC Members Dr. Sivaramakrishnan, Head, Dept. of Biotechnology, ANGRAU, Hyderabad & DBT nominee, Dr. M. Mani, Chief Scientist, ITC Ltd.-ILTD Division, Rajahmundry, Dr. N. Venkata Rao, AMA, Dr. R.V.S. Rao Head i/c, Crop Improvement, Dr. C.V. Narasimha Rao, Principal Scientific Officer and Dr. K. Sarala, Sr. Scientist & Member-Secretary, IBSC. Dr. K. Sivaraju, Dr D.V. Subhashini, and Dr. P.V.Venugopala Rao, Scientists of CTRI have attended the meeting. The committee examined the Biosafety measures adopted while conducting transgenic research and expressed satisfaction.



Chairman and Members of the IBSC meeting at CTRI, Rajahmundry

VISITORS

- ❑ Fifty five members of DAESI Trainees from West Godavari District visited CTRI on 10.4.2007.
- ❑ Sri N. Mohan Padmanabhan, Dy. Chief, The Hindu Business Line, Kolkata visited the Institute on 6.4.2007. Dr. V. Krishnamurthy, Director, CTRI briefed the 60 years of research on tobacco, the global scenario, the present tobacco situation and future trends.



Sri N. Mohan Padmanabhan with Dr. V. Krishnamurthy, Director, CTRI

MEETINGS / VISITS OF DR. V. KRISHNAMURTHY, DIRECTOR, CTRI

- ❑ Attended the Zonal Research and Extension Advisory Council (ZREAC) meeting of high altitude and tribal area zone at ITDA Complex, Rampachodavaram, East Godavari District, A.P. on 3.4.2007.
- ❑ Attended the review meeting held at Tobacco Board, Guntur on Extension and Developmental Schemes taken up in 2006-07 crop season in A.P. and finalized the strategies for the crop 2007-08 on 15.4.2007.
- ❑ Inspected the CTRI Research Station and farmers' fields at Guntur on 16.4.07.
- ❑ Visited the Burley Tobacco Research Centre, Jeddangi and monitored the Burley Seed Processing and participated in the Scientist-Farmers-Traders Interface on Burley Production Technology for the 2007 season on 20.4.2007.
- ❑ Visited the Burley Tobacco Research Centre, Jeddangi, initiated sowing the burley tobacco seed-beds in the Farm and participated in Burley Farmers Meet at K.D. Peta on 23.5.07.
- ❑ Attended the Inaugural Session and Chaired the Technical Session on "Crop Production" in the IRC Meetings of NRC for Oil palm at Pedavegi on 27.6.07.
- ❑ Attended the meeting organized by Tobacco Board in connection with the visit of the China National Tobacco Corporation (CNTC) delegation from Zhejiang Province, China and presented the 'Developments in Indian Tobacco Research' to the Chinese delegation at Hyderabad on 28.6.2007.
- ❑ Attended the meeting of all the Commodity Boards organized by the Hon'ble Minister of State for Commerce and presented the 'Recent developments in tobacco research for productivity and quality improvement and to reduce cost of cultivation' at the M.S. Swaminathan Research Foundation (MSSRF), Chennai on 30.6.2007.

54th ANNUAL CLUB DAY CELEBRATIONS OF TOBACCO INSTITUTE CLUB

The Tobacco Institute Club celebrated its 54th Annual Day on 2.6.2007 at 'Kalamanch', CTRI Staff Residential Quarters Complex. Dr. V. Krishnamurthy, Director, CTRI & the President, Tobacco Institute Club presided over the function. Renowned Astrologer and recipient of Rastrapathi Award 'Jyotisha

Vignana Bhaskara' Sri Madura Krishnamurthy Sastry graced the occasion as the Chief Guest. Prizes were distributed by Dr. V. Krishnamurthy to the winners in different sporting and cultural events. Cultural programmes were performed by the members of the Club.



Dr. V. Krishnamurthy, President, Tobacco Institute Club addressing the gathering



A play-let by CTRI staff

KRISHI VIGYAN KENDRA

Training Programmes

- ❑ A total of 22 training programmes were conducted in agriculture and allied aspects and a total of 728 farmers, farmwomen, rural youth and extension personnel were trained.
 - ❑ One month duration training programme was organized by KVK on Banana fibre products from 25.5.2007 to 24.6.2007, a total of 20 participants (female) have participated from Chilakaluripeta, Guntur district.
 - ❑ Ten-day duration training programme on 'Fibre products making' was conducted for 20 rural youth (female) at Alamuru village from 25.6.2007 to 2.6.2007.
 - ❑ One week duration training programme on 'Improved agricultural technologies' was organized by KVK in collaboration with State Department of Agriculture from 10.6.2007 to 15.6.2007. A total of 520 Aadarsha Rytu Volunteers (male) have participated from different mandals of East Godavari District.
 - ❑ Three thousand and fifty eight kilograms of improved fodder slips (Var. Co-3), and 616 gramapriya eggs, chicks & turkey were supplied to the farming community.
- ### Kisan Mela
- ❑ KVK participated in two Kisan Melas organized by the State Department of Agriculture at Kakinada on 9.6.2007 and Draksharamam on 12.6.2007 and a total of 7,200 farmers have participated.

Edited and Compiled by Dr. C.V. Narasimha Rao, DTP Type setting by Md. Elias, Photographs by N.V. Raju,

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