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CENTRAL TOBACCO RESEARCH INSTITUTE

# Newsletter

CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY-533 101

## DIRECTOR'S COLUMN

Dear Readers,

The importance of multi-disciplinary research by a team of scientists is underscored in the "Guidelines on Research Project Budgeting and Time Management"

prepared by NAARM, Hyderabad as per the recommendations of the recently concluded meeting of ICAR Directors. The system of project-based budgeting emphasizes on team working and team building. This new culture helps scientists to concentrate on inter-disciplinary research projects involving team work, thus preventing the resources being thinly spread across too many research projects. I am happy to inform that CTRI has already taken a lead in this

direction. Keeping in view the spirit of the concept, inter-disciplinary teams have been formed, for different agro-ecological situations, where FCV tobacco is grown and non-FCV tobacco is cultivated, with the objective to identify the priority areas of research in Indian tobacco and to give a new direction. The research teams will be advising the Director on the comprehensive plan of action to achieve the objective. Taking into consideration the existing local, national and global demands, the teams will identify the bench mark, formulate the work plan, execute and monitor the research programmes, which are need-based and result-oriented.

I wish to share with you the views expressed by the Honorable Agriculture Minister on the National Agricultural Policy. The key factors for unabated reduction in potential of our biophysical resources related to agriculture are over-mining of soil, water, nutrients and



integrated nutrient and pest management so as to make agriculture profitable and sustainable in the long run. Integrated pest management with emphasis on biological control measures can considerably reduce the use of pesticides. Obviously, researches are to be reoriented to meet such objectives and guide the process of bringing sustainability in agriculture, which alone will be critical in meeting our ever-growing needs, including the needs of growing markets where conscious consumers are ready to pay considerably higher cost for organically produced food.

Indiscriminate use of pesticides. Organic carbon content and soil microflora are also adversely affected, thereby leading to clearly visible symptoms of soil sickness and consequent reduction in factor productivity in different regions, situations and systems in agriculture. Naturally, replenishment of nutrients into the soil and increasing soil water availability so as to provide congenial environment for crop growth becomes a necessity. With the replacement of bullocks by tractors and tillers, it is absolutely essential that we also pay utmost attention to green manuring of soils for agriculture. We need to explore as to how best we can gradually move towards essentials of organic farming/

integrated nutrient and pest management so as to make agriculture profitable and sustainable in the long run. Integrated pest management with emphasis on biological control measures can considerably reduce the use of pesticides. Obviously, researches are to

be reoriented to meet such objectives and guide the process of bringing sustainability in agriculture, which alone will be critical in meeting our ever-growing needs, including the needs of growing markets where conscious consumers are ready to pay considerably higher cost for organically produced food.

In the light of current tobacco situation, it is imperative to produce tobacco, which is less harmful, more flavourful, cleaner and more

price-competitive, thus, making it essential to adopt the measures enumerated in the National Agricultural Policy. I am glad that our scientists have reoriented the research programmes and this is very much reflected in the new research project proposals, especially the attempts to reduce the harmful substances like TSNA through manipulation of organic and inorganic sources of nitrogen, submitted during the recently concluded Staff Research Council meetings.

(K. DEO SINGH)

## STAFF RESEARCH COUNCIL MEETINGS

The Staff Research Council (SRC) meetings were held from 6.8.2001 to 9.8.2001 in the Lecture Hall of Central Tobacco Research Institute, Rajahmundry. The inaugural session was presided by Dr. P. Dayachari, IAS, Chairman, Tobacco Board, Guntur. Dr. Mahatim Singh, Former Vice Chancellor, G.B. Pant University of Agriculture and Technology, Pantnagar was the Chief Guest. Dr. G.J. Patel, Ex-Project Coordinator, Network Project (T), Anand and Sri S. Janardhan Reddy, Vice-President, M/s ITC Ltd.-ILTD Divn., Guntur, Dr. K. Nagarajan, Former Director, CTRI, Sri K.J.B.V. Subrahmanyam, IAS, Executive Director, Tobacco Board, Dr. T.S. Subramaniam, Chief Scientist, ITC Ltd-ILTD Divn., Rajahmundry, Sri M.M. Yusuf, General Manager, GPI Ltd., Guntur, Sri M. Someswara Rao, Leaf Manager, M.L. & Co., Chilakaluripeta, Dr. K.V. Satyanarayana, Sri V.V. Ramana Rao, Sri M. Umamaheswara Rao, Dr. B.V. Ramakrishnayya and Dr. R. Lakshminarayana, Retd. Heads of Divisions,

CTRI were some of the important dignitaries who graced the occasion. Scientists and Technical Officers from CTRI and its Research Stations and Network Project (T) Centres, Officials from Tobacco Board, Trade and Industry and Representatives of Press and Electronic media were present on the occasion.

In his inaugural address, Dr. K. Deo Singh, the Chairman of SRC and Director, CTRI, highlighted the role of conservation of water & soil, IPM and biocontrol and organic farming approach in future tobacco production system. He emphasised

the need for reorienting research and development on Indian tobacco in view of the changing global tobacco scenario. Dr. Singh outlined the opportunities for augmenting exports and the strategies to be adopted viz. reduction of cost of production, proper grading, meeting the norms



Dr.T.Venkateswarlu, Sri S. Janardhan Reddy, Dr. Mahatim Singh, Dr. P. Dayachari, Dr. K. Deo Singh, Dr. G.J. Patel



of International markets regarding low tar, pesticide residues and TSNA, production of more flavourful varieties of tobacco and augmenting the existing marketing facilities. Dr. Singh focused the attention on the important thrust areas in tobacco research world over and presented a resume of the research highlights of CTRI and its Research Stations.

Dr. Mahatim Singh emphasised the importance of option research for the benefit of the farmers. Dr. Singh stressed the need for utilisation of tobacco products in a much better way.

Dr. G.J. Patel observed that production of tobacco should be in tune with the requirements of industry and acceptable to the trade. Dr. Patel pointed out that efforts should be made to develop variety resistant to leaf curl through interspecific hybridization with *N. glauca*.

Sri S. Janardhana Reddy drew the attention of the scientific community to the challenges faced by Indian tobacco industry viz., changing consumer preferences, severe competition in the world market, pesticide residues, Tobacco Specific Nitrosamines and quality improvement.

In his presidential address, Dr. P. Dayachari, observed that tobacco cultivation and industry are at cross-roads and called for finding out suitable alternative to tobacco, while protecting the interests of the tobacco farming community.

The inaugural session concluded with vote of thanks proposed by Dr. T. Venkateswarlu, Principal Scientist and Head, Division of Crop Improvement, CTRI, Rajahmundry.

Variety release proposals were made during the session. SRC recommended the varieties 1) Chewing tobacco line HV-92-4, "Kaviri" for Coastal belt in Tamil Nadu, 2) Chewing tobacco variety "Lichhivi" (line SP-14) for cultivation in North Bihar, 3) Motihari tobacco variety "Dharla" for West Bengal for identification by the Varietal Identification Committee.

In different sessions of SRC, concluded, ongoing and new projects/experiments were thoroughly discussed.

### GROUP MEETINGS OF NETWORK RESEARCH PROJECT ON TOBACCO

Group meeting of Network Research Project on Tobacco was held at CTRI, Rajahmundry on 27th and 28th September, 2001. The All India Co-ordinated Research Project on Tobacco, was renamed as **Network Research Project on Tobacco**. A total of 85 scientists from its four main centres i.e., Rajahmundry, Pusa, Shimoga, Anand and sub centres i.e., Guntur, Hunsur, Dinahata, Nipani, Nandyal, Berhampur and Gursahayganj, distinguished personnel from ARS, Lam Farm, Guntur, Tobacco Institute of India, ITC-ILTD, and from other tobacco industries attended the meetings. Dr. K. Deo Singh, Director, CTRI welcomed the delegates to the meeting and gave a brief history of the network project, Dr. Singh highlighted various achievements of the project since its 1st Group meeting. Dr. N. Hariprasada Rao, Associate Director of Research, Lam Farm, Guntur, in his address, said that tobacco crop should be treated as a component of cropping system and emphasised the need to adopt IPM for reducing pesticide levels in tobacco. He opined that tobacco industry and trade should have a greater role in supporting research and propagating technologies developed by tobacco

researchers. Dr. T. Venkateswarlu, Principal Scientist and Head, Division of Crop Improvement and Nodal Officer, NRP(T) gave a brief resume of progress of work at different centres. All the Heads of Divisions at CTRI presented the highlights of the experiments. Dr. K.C. Jain, Assistant Director General (CC), ICAR, New Delhi delivered keynote address. He said that CTRI has worked with various alternate crops and identified some promising alternatives for tobacco and there is a need to educate farmers in problematic areas, especially on better alternative crops for tobacco under those situations in the long run; Tobacco research should be more conscious about health related problems; Integrated Disease Management and use of biocontrol agents and biofertilizers will also help overcoming problems associated with residues and quality of tobacco; Alternative strategies viz. production of solanesol, organic acids, nicotine sulphate etc. may also be given added importance to face any eventuality due to lack of international demand for tobacco leaf. The session ended with vote of thanks to the Chair proposed by Dr. T. Venkateswarlu.



Dr. K.C. Jain, Dr. K. Deo Singh and Dr. N. Hariprasada Rao

### RESEARCH HIGHLIGHTS

#### CTRI, Rajahmundry

- Interspecific hybrids of a trispecific cross (*N. benthamiana repanda* x *N. gossei*) were obtained for the first time.
- Sequential and intercropping studies to find out the best alternative cropping system to FCV tobacco in vertisols indicated that blackgram during kharif and FCV tobacco in rabi recorded more net returns of Rs 26,706/ha with a C:B ratio of 1:1.62 closely followed by maize + soybean during kharif season and bengalgram during rabi season with net return of Rs 23,520/ha (C:B 1:1.20).
- Application of 110 kg N/ha and topping at 24 leaves at bud stage is necessary for the variety K-326 (NLS-4) for getting higher green leaf yield, cured leaf yield and grade index in NLS.
- The pooled analysis of three years' yield data has clearly shown that the new high yielding varieties, K-326 and Ratna (FCH 6534) performed well with 60 kg N/ha and bud topping. With this combination, K-326 and Ratna gave cured leaf yield of 2409 kg and 2186 kg/ha respectively in Karnataka light soils.
- DB-101 and Speight G 33 were found to be promising as resistant donors for wilt disease resistance breeding programme.

#### CTRI RS, Guntur

- Natu tobacco line II-1876 emanated from the cross II-1752 x NG-62 proved promising in providing higher cured, bottom leaf yields while for top leaf yield II-1872 (II-1751 X NG-62) topped among entries. It was observed that both the selections exhibited 75 to 80% resistance to *Spodoptera litura* coupled with good to medium taste.

## TRANSFER OF TECHNOLOGY

### CTRI, Rajahmundry

Trainings to farmers		
Date	Topic	Place and Organizer
02-8-2001	Raising good and healthy seedlings in the nursery	CTRI Farm, Katheru, CTRI
29-8-2001	Raising healthy nurseries and fertiliser management in the main field by Sri M. Appa Rao	Badrachalam, Tobacco Board
06-9-2001	Pest and disease management and INM in tobacco nurseries and main field crop by Dr. B. Narsimha Rao and Sri T. Krishnamurthy Dr. S.V.K. Reddy and Sri S. Gunneswara Rao	Chintalapudi, AMC, Bhimadolu, W.G.Dt.
07-9-2001	Nursery management by Sri S.K. Naidu	Dommeru, AMC, Kovvur, W.G.Dt.
10-9-2001	INM and IPM in Northern light soil tobacco cultivation by Sri M. Sannibabu and Sri C.V.K. Reddy	Gopalapuram, AMC, Gopalapuram, W.G.Dt.

### CTRI RS, Guntur

#### Farmers Meet

Farmers meet on "Cropping sequences and recent approaches in pesticide application technology"



Dr. K. Deo Singh addressing the delegates

was organized by CTRI RS, Guntur in collaboration with M/s Parkey Farm Equipments India (P) Ltd. on 9th and 10th September at Sri Venkateswara Vignana Mandiram, Guntur. Sri Y.V. Rao, M.P. and Sri Y. Anjaneyulu, MLA were the Chief Guests and Dr. K. Deo Singh, Director, CTRI, Rajahmundry has presided over the function. Dr. P. Harishu Kumar, Sri S. Sitaramaiah from CTRI, Rajahmundry, Dr. N. Hariprasad Rao, Associate Director of Research, Lam and Dr. G. Raghupathi Rao, Head, CTRI RS, Guntur addressed the farmers on cropping sequences

and IPM and various aspects of pesticide application technology. In this connection an exhibition on tobacco production and products was arranged for the benefit of the farmers.

#### Field visits

Dr. G. Raghupathi Rao, Sri A.V. Sekhara Babu, Sri G. Radha Krishna Murthy, Sri M. Nageswara Rao and Sri Amir Ali visited tobacco nurseries of Pothur village, Chandavaram on 21-8-2001 along with Tobacco Board Officials and enlightened the farmers with the developed technology of raising FCV nursery under CBS conditions.

#### Exhibitions

An exhibition of all tobaccos was arranged at Guntur from 3rd to 5th September, 2001 in connection with the seminar on Export promotion strategies for tobacco, organized by Tobacco Board, Guntur.



Dr. K. Deo Singh inaugurating the Exhibition

### CTRI RS, Hunsur

Dr. M.M. Shenoi, Principal Scientist & Head, Sri K.N. Subrahmanya, Scientist (Sr. scale), Dr. K. Giridhar, Scientist (Sr. scale) and Sri C. Mahadeva, Technical Officer T6 have participated in the workshops at different platforms organized by Tobacco Board in connection with the Silver Jubilee Celebrations from 16-7-2001 to 21-7-2001 and delivered talks on production practices of KLS tobacco.

**Inter Agency team visit**

Dr. M.M. Shenoj participated in the phase I (2nd to 7th July, 2001) and phase II (16th to 23rd August, 2001) visits of Inter Agency team constituted by Tobacco Board for making production estimates of KLS tobacco for 2001-02 season.

**CTRI RS, Kandukur**

□ Tobacco Board organized a training programme on Nursery management for nursery men at CTRI Research Station on 3-8-2001.

□ Sri R. Sreenivasulu, Pr. Scientist & Head, participated as a resource person in Watershed Area Farmers Training Programme on "Cultivation and marketing of medicinal and aromatic plants" organized by DPAP, Prakasam Dt. at Ongole on 24-8-2001.

□ Sri R. Sreenivasulu attended farmers meeting on "Drought and alternative cropping programme" at Kandukur, organized by Agricultural Market Committee, Kandukur on 30-8-2001.

**CONFERENCES/TRAININGS/  
WORKSHOPS**

□ Dr. U. Sreedhar, Scientist (SS) participated in National Symposium on "Biocontrol based pest management for quality crop protection in the current millennium" at PAU, Ludhiana from July 18-19, 2001 and presented two research papers (i) Integrated management of *Spodoptera litura* F on groundnut in Krishna District, A.P. (ii) Management of *Helicoverpa armigera* on pigeonpea in A.P.

□ Dr. R.V.S. Rao, Principal Scientist attended a symposium on "Plant genetic resources management advances and challenges" from 1st to 3rd August, 2001 at ISPGR, NBPGR, Pusa complex, New Delhi and presented a paper on Status of disease and pest resistance germplasm in tobacco.

□ Dr. K. Deo Singh, Director, CTRI and Dr. C.V. Narasimha Rao, Principal Scientist attended the National seminar on WTO and its impact on Indian Agriculture, organized by ANGRAU, Hyderabad from 18th to 19th August, 2001.

□ Smt N. Aruna Kumari, Technical Officer, KVK participated in National Seminar on Women in Agriculture, organized by TNAU, Coimbatore from 20-8-2001 to 22-8-2001 and presented a paper on "Impact of tobacco crop holiday on the economic status of women workers engaged in tobacco cultivation in A.P." by N. Aruna Kumari, K.D. Singh and P. Harishu Kumar.

□ Dr. V. Krishnamurthy, Principal Scientist (Soil Chemistry) attended one month National training course on "Resource management for sustainable rainfed cropping systems" at Centre of Advanced Studies, Department of Soil Science and Agricultural Chemistry, JN Krishi Viswa Vidyalaya, Jabalpur, M.P. from 21-8-2001 to 19-9-2001.



Dr. V. Krishnamurthy offering a bouquet to Dr. G.B. Singh, VC, JNKVV, Jabalpur

□ Dr. U. Sreedhar, Scientist (SS) participated in the National Symposium on "Soil arthropods and their management" at Jaipur from September 27-28, 2001 and presented a paper, "Management of tenebrionid beetles in flue-cured virginia tobacco.

□ A team of scientists viz., Dr. P. Harishu Kumar, Dr. S.R. Prabhu, Dr. P.R.S. Reddy, Sri R. Subba Rao, Sri M. Sannibabu, Dr. C. Chandrasekhara Rao, Dr. C.V.

Narasimha Rao from CTRI, Rajahmundry and Sri R. Sreenivasulu from CTRI RS, Kandukur, Dr. K. Giridhar from CTRI RS, Hunsur participated in the Seminar on "Export promotion strategies for tobacco" organized by Tobacco Board at Guntur, on 3rd and 4th September, 2001 and presented the following papers:-

i) Sri R. Sreenivasulu presented a paper, "Factors influencing yield and quality of SLS tobacco" by R. Sreenivasulu, V. Venkateswarlu, P.V. Venugopala Rao and J.V. Prasad.

ii) Dr. P.R.S. Reddy presented a paper, "Technology for improving yield and quality of flue-cured tobacco in Northern light soils of A.P. by P.R.S. Reddy.

iii) Dr. P. Harishu Kumar presented a paper, "Technology for improving yield and quality of FCV tobacco grown in black soil" by P. Harishu Kumar, R. Subba Rao and Mrs. S. Kasturi Krishna.

iv) Dr. S.R. Prabhu presented a paper, "Value-added products from tobacco" by Dr. S.R. Prabhu and Dr. C.V. Narasimha Rao.

v) Sri M. Sannibabu presented a paper, "Prospects, problems and future thrusts in NLS irrigated FCV tobacco of A.P." by M. Sannibabu.

vi) Dr. K. Giridhar presented a paper, "Technology for improving yield & quality of FCV tobacco in KLS" by M. M. Shenoj.

**INSTITUTIONAL SEMINAR**

Dr. T. Venkateswarlu, Principal Scientist & Head of the Division, Crop Improvement gave a talk on "Seed Certification" to the seminar group of CTRI, Rajahmundry on 18-7-2001.

## RADIO TALKS

- గ్రామాభ్యుదయంలో కృషి విజ్ఞాన కేంద్ర పాత్ర by Smt. V.V. Lakshmi Kumari on AIR, Visakhapatnam on 19-7-2001.
- అధిక దిగుబడినిచ్చే వర్షినియా పొగాకు by Dr. R.V.S. Rao on AIR, Visakhapatnam on 27-7-2001.
- బర్లీ పొగాకు సాగులో నూతన యాజమాన్య పద్ధతులు by Sri I.V. Subba Rao on AIR, Visakhapatnam on 23-8-2001.
- పొడి అభివృద్ధికి కె.వి.కె. చేపడుతున్న కార్యక్రమాలు by Dr. B. John Babu on AIR, Visakhapatnam on 21-9-2001.
- Impact of mechanisation in Palmyrah fibre industry by Sri R. Sudhakar on AIR, Vijayawada on 22-9-2001.
- పొగాకు నారుమళ్ళలో సస్యరక్షణ by Sri S. Sitaramaiah on AIR, Vijayawada on 22-9-2001.
- Impact of income generation activities - Adda leaf plates making and sea shell decoratives by KVK beneficiaries on AIR, Vijayawada on 24-9-2001.

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## HINDI FORTNIGHT CELEBRATIONS

In pursuance of the instructions issued by the Department of Official Language, Ministry of Home Affairs, Government of India on the implementation of the Official Language Policy of the Union for Region "C", Central Tobacco Research Institute, Rajahmundry organized Hindi Fortnight Celebrations from 14-9-2001 to 28-9-2001. Dr. K. Deo Singh, Director inaugurated the celebrations by lighting the lamp on 14-9-2001.

During this fortnight all the staff members took interest and participated in various competitions in Hindi like translation of a passage and terminology, letter writing, essay writing, memory test, songs and

gazals, comprehension from Hindi passage, noting & drafting etc. The closing ceremony was organised on October 9, 2001 and Sri D.K.

Sri Y.V. Suryanarayana, Documentation Officer and Vice-President of OLIC welcomed the gathering. Sri Ch. Srirama Rao, Assistant



Dr. K. Deo Singh addressing the gathering

Purwar, General Manager, Gas Authority of India Ltd., Rajahmundry was the Chief Guest. Dr. K. Deo Singh chaired the function.

Sri Y.V. Suryanarayana, Documentation Officer and Vice-President of OLIC welcomed the gathering. Sri Ch. Srirama Rao, Assistant Director (Hindi) and member secretary, OLIC read the messages of Sri Ajit Singh, Hon'ble Minister for Agriculture and Ms. Shashi Misha, IAS, Secretary, ICAR and Additional Secretary to Government of India for the information of the staff. He narrated briefly the interest taken by the staff in learning and usage of Hindi in their official works. Dr. Singh said that there should be one language throughout

the country. Hindi will help in expressing their views and ideas properly to all. Sri Purwar distributed the prizes.

## Training Programmes

### INTERNET training

Training programme on "Internet & its application" was organised at CTRI, Rajahmundry from 3-11th July, 2001 and twenty Scientific and Technical staff of CTRI, Rajahmundry were trained. The programme was inaugurated by Dr. K. Deo Singh, Director, CTRI on 3rd July, 2001. The topics dealt during the training programme are:

1. Internet and its fundamentals

2. Browsing and accessing of important web sites
3. Creation of user mail Ids
4. Send and receive mails
5. Searching in Internet and its methodologies
6. Creation of a webpage
7. Preparation of pdf files

Dr. T.G.K. Murthy, Sr. Scientist and Sri Y.V. Suryanarayana, Documentation Officer explained Internet searching and creation of

web page and pdf files, respectively. Sri H. Ravi Sankar, Scientist-in-charge, Aris Cell acted as course co-ordinator for the training programme. On the valedictory day certificates were distributed by the Director to all the trainees.

### Soil Testing & Water Analysis Training

A training programme on Soil testing and irrigation water analysis for FCV tobacco to the staff of Tobacco Board, was conducted from 13-8-2001 to 19-8-2001 in the soil testing laboratory Dr. V. Krishnamurthy acted as course coordinator. The course consists of theory and practicals in soil testing and irrigation water analysis and interpretation of soil test data and fertiliser and manurial recommendations to FCV tobacco in A.P. and Karnataka states. At the end of the programme, certificates were issued to the participants by Dr. K. Deo Singh, Director, CTRI, Rajahmundry.



### Contract Research Project initiated

The imposition of crop holiday might have caused tobacco growers shift towards cultivation of alternative crops / cropping sequences and would have brought changes in the socio-economic traits of tobacco farmers with this aim. A project entitled "Critical analysis of the effect of tobacco crop holiday on socio-economic issues and extent of crop substitution in A.P." has been initiated as contract research project sponsored by The Tobacco Institute of India with a cost of Rs 3,16,000/-. Dr. Y. Subbaiah, Scientist (Sr. Scale) (Ag. Extn.) is the Principal Investigator and Dr. P. Harishu Kumar, Principal Scientist & Head, Division of Crop Production is the Co-Principal Investigator and Dr. K.D. Singh,

Director, CTRI is the Nodel Officer.

### Independence Day celebration at CTRI

Dr. K. Deo Singh, Director, CTRI hoisted the National flag in the Institute premises on 15th August, 2001. All officers and staff members attended the function. Tobacco Institute Club organized a cultural programme in this connection.



### INTER-INSTITUTIONAL TRANSFER

Smt. J.V.R. Satyavani, Technical Officer T6 transferred from Central Research Institute for Jute and Allied Fibres, Barrackpore to CTRI, Rajahmundry.

### RETIREMENTS

Sri Md. Noorhussain Miah, SS Gr.I, CTRI Research Station, Dinhat retired on invalidation w.e.f. 29-9-2001.

### OBITUARY

Sri Ch.N.V.S. Sarma, Jr. Clerk, CTRI, Rajahmundry expired on 30-8-2001.

## KRISHI VIGYAN KENDRA

### Energy Park at KVK

ICAR has sanctioned an amount of Rs 7,07,300/- to establish Energy Park at KVK, Kalavacherla for demonstration and conduct training to the farmers on use of non-conventional energy. Some of the non-conventional energy devices were procured and the work is in progress.

### New Project on Farming System Analysis

A Project on Farming Systems Analysis and development in Tribal Area of East Godavari Dt. was taken up by Dr. V.V. Subramanian, Dr. B. Narasimha Rao, Sri R. Sudhakar and Smt. V.V. Lakshmikumari and data were collected on different aspects of tribal people for effective implementation of the project.

### IVLP and TAR at KVK

ILVP and TAR programme was allotted to KVK, Kalavacherla by ADG, ICAR(Extn.) Zonal Co-ordinator. Fifty families were allotted to KVK during Rabi 2001. After initial survey of 12 villages in East Godavari district, the village Katavaram in Sitanagaram Mandal has been

selected for the implementation of IVLP-TAR programme. PRA was conducted in the village for taking up the need based interventions. The Agro Eco System analysis matrix ranking, have been conducted to study the village resources pattern and problems. Accordingly, suitable action plan for the implementation of IVLP-TAR is under preparation.



IVLP team with farmers

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