



# समाचार Newsletter



**CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY**

Vol. 11

JANUARY—MARCH 1989

No. 1

## MAJOR EVENTS

### STAFF RESEARCH COUNCIL MEETINGS



Dr. M. S. Chari, Director, Welcoming the delegates of SRC

Staff Research Council Meetings were held at Central Tobacco Research Institute, Rajahmundry from 25-2-89 to 27-2-89. The meeting was attended by Dr. R. Lakshminarayana, Project Co-ordinator (Tobacco),

Dr. T. S. Subrahmanyam of M/s. ILTD/ITC Ltd., Sri S. N. Panikar, Deputy Director, Directorate of Tobacco Development, Sri Kajana, Tobacco Board, Officers-in-Charge of all CTRI Res. Stations and Scientists of CTRI and CTRI

Res. Station, Hunsur. A welcome address highlighted the achievements and improved technologies adopted by the farming community with close collaboration of Tobacco Board and leading tobacco companies. He complimented the scientists for taking up the challenge for the supply of adequate quantity of quality 'Lanka Special' seedlings to the needy farmers during the season. He also highlighted his impressions on his visit to Brazil and Zimbabwe and their research and marketing activities. He stressed for the time bound research programmes for attaining quick results by adopting new technologies.

Progress of research during 1988-89 at CTRI Research Station, Hunsur was presented by Sri J. S. L. Moses, Officer-in-Charge of the station. The other scientists of the station, presented their research work and also proposed new projects for 1989-90.

The AICRP Projects for Shimoga Centre were presented by Dr. Nagaraja Shetty. Dr. D. A. Sharma, Agronomist, Natu Tobacco Research Station, Venkatramannagudem presented the results of the projects of the station. Technical programme for the year 1989-90 of AICRP Research Station, Berhampur, Orissa was presented by Sri Bishoi.

A special group discussion was arranged on Virus Diseases and *Heliothis* on 24th Feb. 89, in view of the serious out break of these pests in A.P. Dr. R. Raghunathan, Director, Central Plant Protection Training Institute, Hyderabad, chaired the discussions. Scientists from AICRP Centres viz. Anand, Berhampur, Shimoga, Venkatramannagudem; APAU, Lam farm, Guntur; CTRI and its Research Stations viz. Hunsur, Dinahata, Pusa, Vedasandur, Kandukur, Jeelugumilli, Guntur and ILTD participated in the group discussions. Dr. K. Nagarajan delivered a lecture on "Present status of viral diseases of tobaccos in India with special reference to leaf curl" and Dr. G. Raghupathi Rao, Principal Investigator of Whitefly presented a paper on 'Status of whitefly and incidence of

and Dr. N. Krishnananda presented a status paper on *Heliothis armigera* on tobacco. Dr. Rosaiah Entomologist, Lam Farm (APAU), Guntur gave a talk on '*Heliothis*' on cotton and its management. There were some discussions about the patenting of varieties in the view of plant breeders' rights.

## RESEARCH HIGHLIGHTS

The newly developed fcv tobacco variety HEMA has been released for cultivation in black soils of Andhra Pradesh by the Central Sub-Committee on crop standards at its 12th meeting held on 13th Feb., 1989 in New Delhi.



Newly released variety. HEMA

### CTRI, RAJAHMUNDRY

Safflower is a promising alternative crop for tobacco in vertisols. Safflower varieties viz. **Manjira** and **Annagiri-300** recorded a grain yield of 1349 kg and 1568 kg per hectare respectively while tobacco (var-Hema) yielded 1159 kg cured leaf. **Manjira** recorded a net income of Rs. 5,945/- and **Annagiri-300** recorded income of Rs. 7,040/- and sole tobacco gave Rs. 5,385/- per hectare.

### CTRI RESEARCH STATION, GUNUR

The performance of mustard varieties viz., **Kranthi**, **Seeta** and **Pusa Bold** have fared well under tobacco based multiple cropping programme.

### CTRI RESEARCH STATION, VEDASANDUR

- \* Herbicide '*Pendemethalin*' (*Stomp*) controlled the suckers at levels viz. 0.025%, 0.05%, 0.075% and 0.10% where as '*Benthiocarb*' (*Saturn*) has little effect on suckers. *Stomp* at 0.10% controlled the suckers (20.59 kg dry suckers/ha) as efficiently as 35% *Neem Oil Emulsion* (18.96 kg dry suckers/ha).
- \* A mutation breeding line HV.86-5 with a production of 4,533 kg/ha of green leaf fared 10% more than its parent I-64 and was superior to other lines.

### CTRI RESEARCH STATION, KANDUKUR

Genetically stabilized lines derived from crosses between cellular enation mutants and FCH lines (FCH 6005 and FCH 6104) were evaluated for their performance in SLS area. Among the lines, crosses involving enation first and second degrees and broad leaf type of enation third degree gave total cured leaf yields higher than 1600 kg/ha compared to 1050 kg/ha in the controls. Plants of the enation bulk plots have good field performance and low incidence of leaf curl disease. These lines showed greater leaf expansion, higher girth

of stem and wide root proliferation, heavy to medium body with bright orange-yellow coloured cured leaf with more lamina percentage. These are favourable characters for S. L. S. area. These lines are proposed for planting on larger area during 1989-90 for further studies.

### CTRI RESEARCH STATION, HUNSUR

During the Staff Research Council meeting held at CTRI, Rajahmundry from 25th to 27th Feb., 1989 the following recommendation was approved for control of damping off and black shank in FCV tobacco nursery in Karnataka. Pre-Sowing drench application of 0.5% Bordeaux mixture, and 2-3 foliar sprays of 0.2% *Ridomil MZ 72 WP*, 3 weeks after germination in the nursery i. e., first spray at 30 days after sowing and remaining 2 sprays at 10 to 15 days interval.

## OTHERS

### Wipro Personnel Computer

A WIPRO Personnel Computer is added to the Agricultural Statistics Section for augmenting the present computer, TDC-316, facility.

### Honours and Awards

Sri C. V. Raghavaiah, Scientist S-2 (Selection Grade) and Officer-in-Charge of CTRI Res. Station, Vedasandur, Tamilnadu, has been awarded Ph. D. degree in March 1989 by the Dept. of Agric Engineering, Indian Institute of Technology, Kharagpur for his thesis 'Effect of submergence stress on rice cultivars and agronomic measures for improvement of yield'.

Sri G. V. V. S. Rambabu, Jr. Clerk, CTRI, Rajahmundry was adjudged as the Best Administrative Worker of this Institute for the year 1987.

### Republic Day Celebrations

40th Republic Day was celebrated on 26-1-89 at this Institute. Dr. M. S. Chari, Director, CTRI, hoisted the flag. Scientists, Technicians, Administrative and other supporting staff attended the function.

### EXTENSION ACTIVITIES

#### Training Programmes

- \* Under R & D implementation, training programmes were conducted on topping, desuckering and harvesting for the benefit of f. c. v. tobacco farming community at i) Rangampeta & Thorredu Auction Platforms on Jan. 6-7, 1989 by Sri K. S. N. Murthy, S-2, Sri S. Sitaramaiah, S-2, Sri M. Sannibabu, S-2 and Sri R. Subba Rao, S-2 and ii) Bhadrachalam-I and II Auction Platforms on Jan. 10-11, 1989 by Sri M. Sannibabu, S-2 and Sri R. Subba Rao, S-2.
- \* Training was imparted to 23 Nepali farmers on FCV tobacco and Natu tobacco production technology at CTRI, Rajahmundry and at CTRI Research Station, Guntur respectively during Feb. 21-25, 1989.
- \* A refresher course on "Management of FCV tobacco nursery and crop in Karnataka" was organized at CTRI Res. Station, Hunsur from 6th to 8th Feb., 1989. The inaugural function was presided over by Sri M.E. Shivalingamurthy, Assistant Commissioner, Hunsur and Sri C. R. Chikkamath, Managing Director, Karnataka State Warehousing Corporation, Bangalore inaugurated the Course. Training was imparted to 15 Field Officers and 37 Field Assistants of Tobacco Board.



Mr. G. V. V. S. Rambhadrachari and Dr. M. S. Chari, Director.

### XXIV Management Committee Meeting

The XXIV Meeting of the Management Committee of this Institute was convened on 24-2-89 with its official and non-official members, nominated by the Council. The Committee discussed various points relating to research and management.



Sri P. C. Jacob, SAO, Dr. M. S. Chari, Director and Dr. M. Rama Rao, Asst. Director, LAM. Farm (APAU), Guntur

### Radio & TV :

- \* "Pogaku Rythulutho parichayalutho gudina gosti" was broadcasted by AIR, Vijayawada on 15-1-89.
- \* 'How to avoid low grades in FCV tobacco' was broadcasted by AIR, Vijayawada on 21-1-89.
- \* A group discussion on Marketing of Tobacco by Sri P. P. Williams, IAS, Dr. M. S. Chari and Sri Y. Shivaji, M. P. was telecasted on 31-1-89 from Doordarshan, Hyderabad.
- \* A profile of the CTRI Research Station, Vedasandur was broadcasted by AIR, Madurai on 26-2-89.

### Exhibitions

CTRI Research Station, Pusa participated in 'Kisan Mela' organised by Rajendra Agric. Univ., Pusa during Feb. 17-18, 1989. A stall, displaying activities and achievements of station was arranged. Farmers' *gosti* was arranged & attended by Scientists & Technicians of the Station. Farmers were explained about the advanced technology of Chewing and Hookah tobacco cultivation, curing, fermentation and storage.

### KRISHI VIGYANA KENDRA ACTIVITIES

1. LAM-M2, a green gram variety released from Regional Research Station of APAU-1 farm, Guntur for rubber cultivation was demonstrated to farmers in KVK Instructional farm, Kalavacharla. LAM-M2 gave 30% extra yield over the high yielding variety, M-67.
2. Twenty five women of Vysha Ladies Association of Rajahmundry were trained for one week i. e. 3-2-89 to 10-2-89 on low cost recipes and preparation of palmyrah garlands.



Trainees with Palmyrah leaf cutting machine.

3. A campus training programme was conducted from 13-3-89 to 17-3-89 for 35 CASA (CHURCH OF AWARENESS FOR SOCIAL ACTION) women workers under Home Science and Rural Crafts sections.

### IV LOCAL MANAGEMENT COMMITTEE MEETING OF KVK



Dr. K. Nagarajan garlanding Dr. N. K. Sanghi. The Others Dr. M. S. Chari and Dr. A. N. Shukla.

Fourth Local Management Committee Meeting of KVK was held on 14-2-89 at KVK, Rajahmundry. Dr. A. N. Shukla, ADG (KVK) and Dr. N. K. Sanghvi, Zonal Co-ordinator for Transfer of Technology (TOT) Projects in A. P. have participated. Dr. M. S. Chari, Director, CTRI presided over the meeting. Dr. A. N. Shukla and Dr. N. K. Sanghvi have appreciated the work carried out in different disciplines of KVK. The team had visited the KVK Instructional Farm, Kalavacherla and had good discussions with farmers.

#### CONFERENCES/SYMPOSIA/SEMINARS/ WORKSHOPS/TRAINING COURSES

\* Sri G. S. B. Prasanna Simha Rao, Scientist S-2 (Plant Breeding) attended 76th Indian Science Congress Session held at Madurai during Jan. 7-12, 1989 and presented a paper entitled 'Further studies on genetic divergence in cigar filler tobacco (*N. tabacum*) in Agriculture Science Section of the Congress.

\* Sri M. Sannibabu, S-2 (Agric. Extn.) attended National Workshop on "Monitoring and evaluation of Agric. Extension" during Feb. 7-10, 1989 held at National Centre for Management of Agric. Extension, NIRD Campus, Rajendranagar, Hyderabad.

\* Sri M. Sannibabu, S-2 (Agric. Extn) and Sri Rambir Training Organiser, KVK attended the training programme on "Constraint analysis and on-farm trails" held at NAARM, Hyderabad during March 13-17, 1989.

\* Dr. B. V. Ramakrishnayya, Scientist S-3, Head, Division of Chemistry, Dr. V. Krishnamurthy, Scientist S-2, Officer-in-Charge, CTRI Research Station, Dinahata and Dr. P. R. S. Reddy, Scientist S-2 have attended International Symposium on "Managing Sandy Soils," held from Feb. 6-12 at CAZRI, Jodhpur, Rajasthan and presented the following papers :-

1. Production of flavourable flue-cured tobacco in Alfisols of East and West Godavari districts of Andhra Pradesh.

2. Nitrogen and Potassium fertilizer management in irrigated soils of Andhra Pradesh for quality flue-cured tobacco production.

#### VISITORS

##### CTRI, RAJAHMUNDY

— Dr. B. K. Tripathi, ADG (CC), ICAR and Sri Kishorilal, Deputy Secretary (AR), ICAR on 6-1-89.



Sri N. S. Murthy, explaining the activities of Computer Centre of CTRI to the visitors.

— Dr. Marmix Van Hyfte, Sales Manager, Nitrate Sales International, Belgium on 26-1-89.



Sri M. Sannibabu, Dr. Marmix Van Hyfte and Dr. R. Sinha, in CTRI Musium

- Dr. L. J. Kanhekar, Deputy Asst. Director, RFT and RC, NICD on 21-1-89.
- Aditya N. Shukla, Asst. Director General (KVK), ICAR on 14-2-89.
- Twenty three farmers and 3 officers of Nepal on 26-1-89.
- Dr. V. Raghunathan, Director, Central Plant Protection Training Institute, Hyderabad. on 21-2-89.



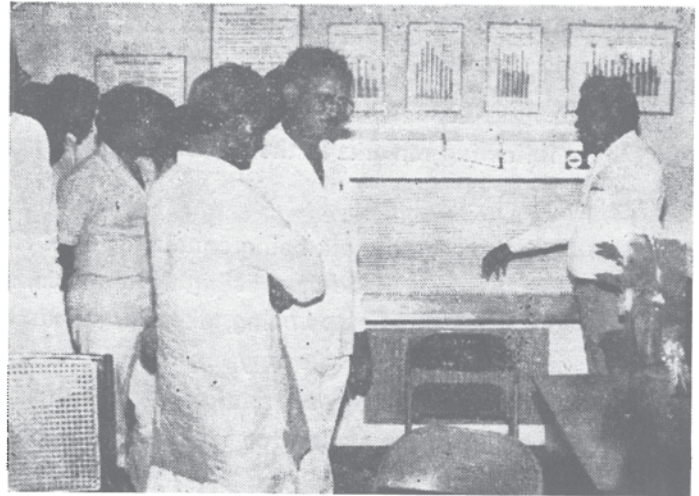
Dr. K. Nagarajan, showing the cured leaf to  
Dr. V. Raghunathan, Director, CPPTI

#### CTRI RESEARCH STATION, GUNTUR

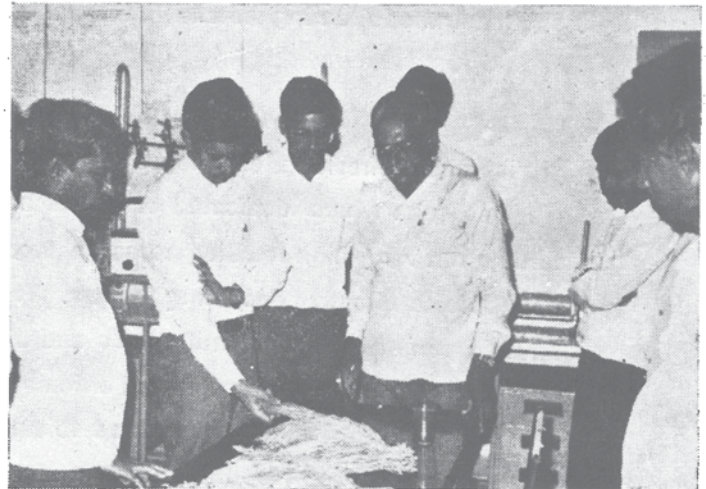
- Farmers from Gujarat & Nepal have visited the Research Station.

#### CTRI RESEARCH STATION, KANDUKUR

- Sri Marmix Van Hyfte, Sales Manager, Nitrate Sales International, Belgium on 25-1-89.
- A team of Marketing Officers, AGMARK Regional Office, Guntur and Sub-office, Ongole on 25-1-89.
- Sri Y. Devaraju, Member, Tobacco Board on 8-2-89.



Dr. K. D. Singh, Officer-in-Charge, explaining the  
research to the Chairman, Z. P. P., Ongole.



Dr. K. D. Singh, Officer-in-Charge, showing the  
cured leaf to Dr. N. Jayaprakash Narayana,  
Collector, Prakasam Dist.

- Shri K. Koteswara Rao, Deputy Agric. Marketing Adviser, AGMARK, South Central Region, Guntur and other Senior Marketing Officers of AGMARK from Guntur and Ongole on 17-2-89.

#### DISTINGUISHED VISITORS REMARKS

Dr. D. Venkateswara Rao, Hon'ble Minister for Medical and Health Services, Govt. of Andhra Pradesh visited CTRI Res. Station, Kandukur on 29-1-89 and offered the following remarks in the visitors book.

“The research work being conducted at CTRI Res. Station, Kandukur, is highly appreciable particularly the steps being taken for controlling the Whitefly are very much useful to the farmers. I hereby congratulate Dr. Singh and the staff of the station for taking such steps.”

Dr. N. Jayaprakash Narayan, District Collector, Prakasam District visited CTRI Res. Station, Kandukur on 9-3-89 and made the following remarks in the visitors book.

“It is most refreshing experience to visit a research farm where dedicated scientists are turning out very high quality research work on problems directly concerning farmers. The farm is run on sound scientific lines and the scientists are brilliant, dedicated and articulate. I am confident their efforts will lead to substantial contribution to the tobacco and cotton farmers of this region”.

#### CTRI RESEARCH STATION, PUSA

- Dr. R. P. Sapkota, Project Chief, NTDP, Nepal on 4-1-89.

#### DISTINGUISHED VISITORS REMARKS

Dr. R. S. Paroda, Deputy Director General (CS), ICAR, New Delhi visited CTRI Res. Station, Pusa and made the following remarks in the visitors book.

“I am very pleased to see the achievements of this station. Good team spirit among the staff members is reflective of centre's healthy growth. Facilities for research work are excellent. We hope to provide more support to the station in VIII Plan. I wish the scientists and all the staff members a great success in their efforts”.

#### PAPERS PUBLISHED

1. ABDUL WAJID, SM; SHENOI, MM and S. V. RAO, Performance of flue-cured tobacco line FCH-6005 against black shank disease in nursery and field. *Tob. Res.* 14 (2) : 102-5, 1988.
2. GOPALAKRISHNA, CVSSV; MURTHY, AGK; RAM-PRASAD, G and D. V. L. SATYAVATHI. Evaluation of a suitable spray schedule for carbaryl insecticides in black soils. *Tob. Res.* 14 (2) : 121-3, 1988.
3. GOPALAKRISHNA, CVSSV; MURTHY, AGK and D. V. L. SATYAVATHI. A colorimetric method for the estimation of carbaryl residues in tobacco. *Tob. Res.* 14 (2) : 126-8, 1988.
4. KRISHNANANDA, N; and S.V.V. SATYANARAYANA. Differentiation between mated and virgin males in *Spodoptera litura*. *Phytoparasitica* 16 (4) : 351-4, 1988.



5. MURTHY, AGK; GOPALAKRISHNA, CVSSV; RAM-PRASAD, G; NARASAYYA, KL and D.V.L. SATYAVATHI. Evaluation of a suitable spray schedule for endosulfan insecticide on FCV tobacco. Part-I-Black Cotton Soils. *Tob. Res.* 14 (2) : 113-6, 1988.
6. MURTHY, A G K; GOPALAKRISHNA, C V S S V; HUSSEINI, SS, NARASAYYA, KL and D.V.L. SATYAVATHI. Evaluation of a suitable spray schedule for endosulfan insecticide on FCV tobacco. Part-II-Karnataka Light Soils. *Tob. Res.* 14 (2) : 117-20, 1988.
7. MURTHY, KSN; PRASADA RAO, JAV and S. S. PRASAD, Nutritional disorders — Magnesium and iron deficiencies in light soil tobacco nurseries. *Tob. Res.* 14 (2) : 136-9, 1988.
8. RAMJILAL; NAGARAJAN, K and G.V.G. KRISHNAMURTHY. Response of *Nicotiana* species and varieties to the root-knot nematode, *Meloidogyne javanica* (Treb) Chitwood. *Tob. Res.* 14 (2) : 128-31, 1988.
9. RAO, CV; NARAYANAN, A I and K. APPA RAO. A new source of cytoplasmic (Euplasmic) male sterility in *Nicotiana tabacum* L. *Tob. Res.* 14 (2) : 132-3, 1988.
10. SHENOI, MM and S. M. ABDUL WAJID. Control of damping-off and black shank diseases by metaxyl (Apron 35 SD) in tobacco nurseries. *Tob. Res.* 14 (2) : 97-101, 1988.
11. SRIVATSAVA, RP and A.S. BHASKAR. Biochemical changes in leaf pigments and chemical constituents during curing of chewing tobacco. *Tob. Res.* 14 (2) : 79-82, 1988.
12. SRIVATSAVA, RP. Biochemical transformations in leaf pigments and chemical constituents during air-curing of cigar wrapper tobacco. *Tob. Res.* 14 (2) : 83-8, 1988.

#### APPOINTMENTS :

No.	Name	Grade	Place of duty	Date of appointment
1.	Smt. Mamataz Begum	Jr. Clerk	CTRI Res. Stn., Dinhat	7-2-89
2.	Sri Thokala Veeraiah	S. S. Gr. III	CTRI Res. Stn., Guntur	24-2-89
3.	Smt. D. Lakshamma	S. S. Gr. I	CTRI Res. Stn., Hunsur	13-3-89

#### PROMOTIONS :

No.	Name	Grade		Place of duty	Date of Promotion
		From	To		
1.	Sri J. Sarangapani	Supdt.	A. A. O.	CTRI Rajahmundry	31-12-88
2.	" P. V. A. Ramanna	"	"	"	2-01-89
3.	" Ch. Subba Rao	Sr. Clerk	Asst.	"	23-01-89
4.	" D. Seethapathi Rao	Jr. Clerk	Sr. Clerk	CTRI Res. Stn., Kandukur	8-02-89
5.	" M. Satyanarayana Murthy	Asst.	Supdt.	CTRI Rajahmundry	18-02-89
6.	" A. Surya Sarma	Supdt.	A. A. O.	"	1-03-89
7.	" K. V. Ramana Murty	Asst.	Supdt.	KVK Rajahmundry	9-03-89

## TRANSFERS :

No.	Name	From	To	Date
1.	Sri R. Subbarao, S-2	CTRI Rajahmundry	WBTRC Jeddangi	10-2-89
2.	„ D. Ramachandram, S-1	WBTRC Jeddangi	CTRI RS Jeelugumilli	26-1-89
3.	Smt. C. V. Ratnavathi, S-1	CTRI Rajahmundry	NRC on Sorgham, Hyderabad	18-1-89
4.	Sri A. P. Sinha, T-I-3	NBPGR New Delhi	CTRI RS Pusa	2-1-89
5.	„ K. C. Das, Asst.	CTRI RS Pusa	CIFA Kausalyagang (as Supdt. on Deputation)	10-3-89
6.	„ S. Ramakrishna, Driver	CTRI Rajahmundry	CTRI RS Kandukur	20-1-89

## RETIREMENTS

1. Sri J. Sarangapani, AAO, CTRI, Rajahmundry, retired on superannuation on 28-2-89.
2. Sri K. Venugopala Rao, Asst., CTRI Rajahmundry, retired Voluntarily on 1-3-89.
3. Sri B. Bhushanam, S. S. Gr. III, CTRI Rajahmundry, retired on superannuation on 31-3-89.

## RESIGNATIONS

1. Sri P. Murugan, T-I, CTRI Res. Stn., Hunsur, resigned from Council's service w.e.f. 17-2-89 A.N.
2. Sri Y. Satyanarayana, Jr. Clerk, CTRI Rajahmundry, resigned from Council's service w.e.f. 15-3-89 A. N.

## अपील

देश में हिन्दी सबसे अधिक पढ़ी, लिखी, बोली और समझी जाने वाली भाषा है। यह एकता को प्रतीक है और मुक्त को एकता में बांधती है। इसलिए भारत के संविधान में हिन्दी को संघ की राजभाषा का दर्जा दिया गया है। अतः केन्द्र सरकार के सभी कार्यालयों की यह जिम्मेदारी हो जाती है कि वे संघ की राजभाषा हिन्दी सम्बंधी नीति का अनुपालन करने के लिए हर संभव प्रयास करें।

मैं अपने मंत्रालय के हिन्दी जानने वाले सभी अधिकारियों और कर्मचारियों से अपील करता हूँ कि वे राजभाषा की नीति की आवश्यकताओं का अनुपालन

करते हुए अपने सरकारी काम काज में हिन्दी का अधिक से अधिक प्रयोग करें। जिन अधिकारियों और कर्मचारियों को हिन्दी का कार्यसाधक ज्ञान नहीं है, उनसे भी अपील करता हूँ कि वे राजभाषा नीति के अनुसार यथाशीघ्र हिन्दी का कार्यसाधक ज्ञान हासिल करें और उसे अपने सरकारी काम काज में अमल में लाएं।

मुझे पूरी आशा है कि मंत्रालय और उसके अधीन अन्य कार्यालयों के अधिकारी और कर्मचारीगण राजभाषा नीति को सफल बनाने में अपना पूरा-पूरा सहयोग देंगे।

ह०/- (भजनलाल)

कृषि मंत्री

भारत सरकार

Edited & Compiled by Y. V. Suryanarayana & M. Ramam.

Published by the Director, Central Tobacco Research Institute, Rajahmundry-533 105 (A. P.)

Printed by M/s. Ganesh Printing & Binding Works, Rajahmundry.