



CTRI

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# Newsletter

CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY-533 105

## Dr. Panjab Singh takes over as ICAR Director General and Secretary, DARE



Dr. Panjab Singh, an eminent agronomist has taken over as Secretary, Department of Agricultural Research and Education (DARE) and Director General, Indian Council of Agricultural Research (ICAR) on October 4, 2001. Prior to this, Dr. Singh worked as Director, IARI. He also worked as Assistant Director General (NARP), ICAR, New Delhi (1979-85), Director, Indian Grassland and Fodder Research Institute (IGFRI), Jhansi (1986-94) and Joint Director (Research) IARI, New Delhi till joining the Jawaharlal Nehru Agricultural University as its Vice-chancellor in April, 1997.

He is the FAO Regional Co-ordinator, Temperate Asia Pasture and Fodder (TAPAFOD) working

group. He also worked as FAO's Regional Plant Production and Protection Officer at Bangkok (Thailand). He has been a member of several scientific and professional societies and consultant to the World Bank, FAO, IDRC, ADB etc. Currently, Dr. Singh is the President of the Indian Society of Agronomy.

Dr. Singh is also the recipient of a number of awards like Kishak Bharati Barani Kheti Award, National Productivity Council Award, Rishabh Shree Award, Ramnath Singh Award, ISA Gold Medal and Certificate for outstanding achievement in the field of agronomy. Dr. Singh has more than 250 publications to his credit.

### RESEARCH HIGHLIGHTS

#### CTRI RS, Hunsur

**Fuel saving in integrated barn:** Seven tests were conducted on an integrated barn (low profile barn with Ventury furnace, modified flue pipe system and ceiling insulation with paddy straw). The fuel usage (wood per kg of cured leaf) varied between 2.12 and 2.78 kg with a mean of 2.43 kg. The average fuel saving was about 30% over the insulated low profile barn (3.44 kg wood per kg leaf). The flue pipe system was designed by M/s TIDE, Bangalore.

FCV tobacco curing with HP gas was tried and the average gas consumption was 0.77 kg per kg cured leaf.

#### NRP (Tobacco) Unit at CTRI

The responsibility of the All India Co-ordinated Research Project (AICRP) on Tobacco (now renamed as Network Research Project (NRP) on Tobacco) has been entrusted with the Director, CTRI, Rajahmundry w.e.f. 16-8-1998. For effective functioning, review and monitoring of the NRP(T), a working /advisory committee was constituted with Dr. K. Deo Singh, Director, CTRI as Chairman, Heads of the Divisions as Principal Investigators, Principal Scientific Officer (RMC Unit) as members and Dr. P.R.S. Reddy, Principal Scientist, Division of Crop Chemistry and Soil Science as Member-Secretary. Dr.Reddy was designated as Principal Scientific Officer (PSO) for the co-ordinating unit of NRP(T) at CTRI from 24.10.2001 onwards. The unit was inaugurated by Dr. Singh on 29-10-2001.

## DIRECTOR'S COLUMN

Dear Readers,

In the ICAR system, AP Cess Fund Schemes (ad-hoc projects)

have become an important mode for taking up research projects of priority and completing them in a given time frame. These projects are also helping in augmenting the resources and infrastructure facilities at the main Institute and Research Stations. I am particularly happy that, so far, the disciplines of Crop Improvement, Crop Protection and Crop Chemistry have been in the forefront in taking up several projects and successfully completing them, thus not only increasing the infrastructure facilities but also enhancing the prestige of the Institute. Recently, ICAR has sanctioned two ad-hoc projects involving collaboration with other Institutes. I am confident that these programmes will help in sharing the human resources and other facilities with the collaborating Institutes.

The first project, "Watershed based NRM strategies for rain-fed area of Prakasam district of Andhra Pradesh", will be taken up in collaboration with Central Research Institute for Dryland Agriculture, Hyderabad with an outlay of Rs. 28.70 lakhs with the following

objectives: to understand and strengthen the efforts in natural resource management leading to sustainable agriculture; to serve as



a model to watershed programmes in the region which is prone to vagaries of weather in addition to poor quality of water; to generate information on techniques of water harvesting, storage and recycling and its impact on ground-water availability, recharging and quality improvement; to develop alternate land use models.

The second project, "Synthesis and biological evaluation of solanesol derivatives as novel bioactive substances", will be taken up in collaboration with Central Drug Research Institute, Lucknow with an outlay of Rs. 27.08 lakhs. It is envisaged to develop infrastructure facilities at CTRI for bulk processing of tobacco waste per batch and generate data on process parameters so as to optimize recovery of pure solanesol. At CDRI, it is proposed

to synthesize solanesol derivatives with hypolipidaemic, anti-tubercular, wound healing and anti-oxidant activities. Pre-clinical studies and mandatory pharmacology of the derivatives will be undertaken leading to new drug development.

Through this column, I appeal to all the scientists to come forward with proposals for financial support from Department of Biotechnology or Tobacco Board or ICAR AP Cess Fund. I wish to suggest a few areas, which can be the basis for such proposals: 1. Studies on the role of cuticular constituents in insect resistance; 2. Studies on the influence of nitrate, nicotine to nornicotine conversion and microorganisms in the formation of TSNA's in tobacco; 3. Studies on the neutral-volatile fraction responsible for tobacco aroma and smoke flavor; 4. Studies on the control of storage molds and insect-pests and 5. Studies on tobacco post-harvest technology to evolve approaches for energy conservation and labour-saving.

(K. DEO SINGH)

## RESEARCH ADVISORY COMMITTEE MEETING



CTRI Research Advisory Committee (RAC) meeting was held at this Institute from 27-28th November, 2001 under the Chairmanship of Dr. S.R. Sree Rangasamy, Director (Retd.), School of Genetics, TNAU, Coimbatore. The other members of RAC, Dr. A. Satyanarayana, Director (Extn.), ANGRA University, Hyderabad and Dr. D.N. Yadav, Professor of Biocontrol, GAU, Anand attended the meeting. Director (Member-Secretary), Heads of Divisions, Heads of Research Stations and Scientists of the main institute also attended the meeting. Dr. Singh highlighted the need for balance between i) export oriented diversification ii) organic farming for increasing production and iii) commercially viable large scale farming system and viable farming systems for the small and marginal farmers as advocated by the National Agricultural System. All the Heads of Divisions and Research Stations briefed the research work going on and their

objectives to the committee.

Dr. Sree Rangasamy stressed that the research focus should be towards tobacco utilization based on types of consumption habit. There should be a resurvey of germplasm for utilisation, better efforts to concentrate on assured quality, stress on leaf types instead of leaf yields and redrawing the quality requirements based on the importers need. Dr. Satyanarayana suggested that efforts should be made to ensure that IPM results reach the farmers. Dr. Yadav suggested establishment of an 'Entomophage Park' to conserve entomophage biodiversity which is depleting due to indiscriminate use of chemical insecticides in most agri-ecosystems. The RAC fully endorsed the vision of CTRI to strive hard for increasing the income of the farmers by increasing the productivity, reducing the production cost, making tobacco less harmful and earn more foreign exchange to the nation.

## TRANSFER OF TECHNOLOGY

### Rythu Sadassu

A Rythu Sadassu was organised at Pothavaram village by the Tobacco Board, Jangareddygudem, A.P. on 1-11-2001. Dr. A.V.S.R. Swamy, Sri S. Gunneswara Rao and Sri C.V.K. Reddy attended the function and explained to the farmers the importance of integrated nutrient management and pest & disease management in tobacco cultivation.

## SYMPOSIA/CONFERENCES/ WORKSHOPS/TRAININGS

- Sri S. Jitendranath, Technical Officer attended a training programme on "Operation management and evaluation of improved agricultural machinery for major oilseed crops" and mid review meeting on "FCV, Oilseeds and Pulses" from 18-9-01 to 6-10-01 at CIAE, Bhopal.
- Sri M. Sannibabu, Sr. Scientist attended a National symposium on "Environmental Studies and Action Plan" at Visakhapatnam from October 11-13, 2001, organised by Andhra University, Visakhapatnam.
- Dr. S.V. Krishna Reddy, Scientist (Sr. Scale) attended a refresher course on "Information technology in agriculture" at NAARM, Hyderabad from October 3-23, 2001.
- Dr. D.V. Subhashini, Scientist (Sr. Scale) attended a training course on "Techniques in microbiology" at TNAU, Coimbatore from October 3-23, 2001.
- Dr. V. Venkatasubramanian, Scientist-in-charge, KVK attended the National Policy Conference for evaluating policy frame work for privatisation of extension through interface between government and private industries organised by Ministry of Agriculture and FICCI (Federation of Indian Chambers of Commerce) at IARI, New Delhi on 30-10-01.

□ Dr. V. Krishnamurthy and Dr. P.R.S. Reddy, Principal Scientists attended the 66th Annual Convention of Indian Society of Soil Science at Udaipur, organised by Maharana Pratap University of Agriculture and Technology, Udaipur and Indian Society of Soil Science, New Delhi from 30.10.2001 to 2.11.2001. Dr. Krishnamurthy presented a paper on "Influence of Rotem's low chloride P and K fertilizer on yield and quality of flue-cured virginia tobacco grown in Northern light soils of A.P." in the oral session on soil fertility.

□ Dr. K. Deo Singh, Director, Dr. K. Palanichamy, Principal Scientist and Sri K.N. Subrahmanya, Scientist (SS) attended the Diamond Jubilee Symposium on 'Hundred years of post Mendelian genetics and plant breeding', organised by Indian Society of Genetics & Plant Breeding from 6.11.2001 to 9.11.2001 at IARI, New Delhi.

□ Dr. B. Narsimha Rao, Technical Officer, KVK attended a refresher course on 'Integrated quality management' at Chiangmai, Thailand, organised by International Agricultural Centre, Wageningen, The Netherlands from 5.11.2001 to 10.11.2001.

□ Smt. N. Aruna Kumari, Technical Officer, KVK attended 'All India Women's conference' at Kakinada on 24-11-01.

□ Dr. V. Krishnamurthy and Dr. P.R.S. Reddy, Principal Scientists attended the International symposium on 'Importance of potassium in nutrient management for sustainable crop production in India', organised jointly by Potash Research Institute of India, Gurgaon and International Potash Institute, Switzerland in New Delhi from 2.12.2001 to 5.12.2001. Dr. V. Krishnamurthy contributed a book chapter on 'Potassium nutrition management for improving yield and quality of flue-cured tobacco' to the special publication 'Potassium

in Indian Agriculture' being published by PRII and IPI.

□ Dr. V.V. Subramanian, Scientist-in-charge, KVK participated as a organising committee member of the National conference on "Agribusiness Extension Management - issues and strategies", organised by International Extension Forum from 6-12-01 to 8-12-01 at MANAGE, Hyderabad.

□ Sri Y.V. Suryanarayana, Documentation Officer attended the 4th International conference of Asian Digital Libraries, organised jointly by University of Mysore and Indian Institute of Information Technology, Bangalore from 10.12.2001 to 12.12.2001 in Bangalore.

□ Dr. K. Deo Singh, Director attended National Seminar on WTO and its impact on Indian Agriculture on 11-12th October, 2001 at ANGRAU, Hyderabad.

□ Dr. K. Deo Singh, Director attended 5th Executive Development programme in Agricultural Research Management from 21.12.2001 to 24.12.2001 at NAARM, Hyderabad.

□ Dr. K. Deo Singh, Director attended Tobacco and Tobacco Products Sectional Committee Meeting of Bureau of Indian Standards as Chairman of FAD 4 on 23-10-2001 at VST, Hyderabad.

### RADIO TALKS

□ "Alternative crops for chewing tobacco" by Dr. M. Kumaresan on AIR, Madurai on 24-10-2001.

□ "Calf rearing" by Dr. B. John Babu on AIR, Vijayawada on 5-12-2001.

□ "తాటినార పరిశ్రమలో యంత్రాల ఆవశ్యకత". (Palm fibre extraction through mechanisation)" was rebroadcast by AIR, Vijayawada on 27-12-2001.

### Dr. K. Deo Singh's visit to CARI, Port Blair

Dr. K. Deo Singh, Director, CTRI and Dr. V. V. Subramanian, Sr. Scientist (Ag. Ext.) visited Central Agricultural Research Institute (CARI), Port Blair on 1st October, 2001 to study the Coastal Farming System existing in the Andaman & Nicobar Islands, collection of germplasm of coconut

varieties, nicobari fowl, horticulture and plantation crops for introduction in the Tobacco based coastal farming system of A.P. and adopted villages under KVK-CTRI w.r.t. implementation of IVLP-TAR interventions and also to see farming system machines developed.



Dr. K. Deo Singh in CARI Museum

**Silver Jubilee Celebration of NRP (Tobacco) Centre, Shimoga**



Dr. K. Deo Singh releasing the souvenir

A function was organised on the eve of completing 25 years of research on tobacco at Regional Research Station, Navile, Shimoga campus on 12th December, 2001. The function was inaugurated by Sri P. Ganeshan, IAS, Director (Auctions), Tobacco Board, Bangalore. To commemorate the occasion, a souvenir was released by Dr. K. Deo Singh, Director, CTRI, Rajahmundry. Dr. R. Lakshminarayana, Retd. Principal

Scientist and Head, Crop Improvement, CTRI, Rajahmundry, Sri A.S. Viswanath, Hon'ble Member, Board of Regents, UAS, Bangalore and Prof. S.R. Vishwanath, Director of Research, UAS, Bangalore were the chief guests. Dr. A.M. Krishnappa, Vice-Chancellor, UAS, Bangalore presided over the function. Retired scientists and research workers were honoured on this occasion. Also, a seminar on FCV tobacco and exhibition were arranged.

**Seminars at CTRI**

- Prof. Dr. B.R. Murthy, Nuclear Laboratory, IARI and IAE Expert, New Delhi gave a seminar talk on 'Multi variate analysis of molecular biology data' to the seminar group of the Institute on 19-10-2001.
- Dr. V. Krishnamurthy, Principal Scientist gave a talk on 'Influence of Rotem's low chloride P and K fertilizer on yield and quality of flue-cured tobacco grown in Northern light soils of A.P.' on 17.11.2001.
- Dr. B. Narsimha Rao, Technical Officer, KVK gave a talk on 'Integrated quality management' (A review of refresher course at Chiengmai, Thailand) on 15.12.2001.

**CD Rom Databases in CTRI Library and Documentation Service**

- CORESTA Tobacco CD database up to 2000.
- AGRIS database up to 2000.
- CABI Crop CD up to 2002.
- CABI Crop Pest CD up to 2002.

**Training Programmes**

**Training on IPM**

A training programme was conducted to the Tobacco Board Field Officers on 'Integrated Pest

Management in Tobacco' during 10-13th December, 2001 at CTRI, Rajahmundry. Twenty three officials from Board attended the training.

**Training on Irrigated natu tobacco**

A state level training programme sponsored by Department of Agriculture and Co-operation, New Delhi was conducted to the agricultural officers, Government of A.P. from tobacco growing modules on 'Advances in irrigated natu tobacco production technology' during 11-15th December, 2001. Thirteen officers attended the training programme.



Trainees with scientists

### ICAR Zone III Inter Institutional Tournament

The sports and games contingent of CTRI, comprising 38 players under the chairmanship of Sri S.K. Naidu, Sr. Scientist participated in ICAR Zone-III Inter-Institutional Tournaments organised by Central Institute of

Fisheries Technology, Cochin from 4th to 9th December, 2001.

In the Mens' events, CTRI secured first place in Pole Vault, second place in Volley Ball (shooting) and Disc throw, and third

place in Shortcut. CTRI Women participants secured first place in Table Tennis singles and doubles, second place in Disc throw, Chess and third place in Disc throw, High jump and Shotput.



### VISITORS

Sri T.B. Jayachandra, Hon'ble minister of Agriculture, Govt. of Karnataka, visited the CTRI Research Station, Hunsur on 8th November, 2001 and interacted with the scientists about the research activities.



Dr. M.M. Shenoi, Principal Scientist & Head, CTRI RS, Hunsur explaining about cured leaf samples to Sri T.B. Jayachandra

### RETIREMENTS

1. Smt. Motha Satyavathi, CTRI, Rajahmundry and Smt. Magarapu Ganga, CTRI Farm, Katheru retired on 31.10.2001.
2. Sri K. Marudaimuthu, CTRI RS, Vedasandur retired on 30.11.2001.
3. Sri Rambriz Gowala, CTRI RS, Dinhata retired on 31.12.2001.

### OBITUARY

Sri M. Venkata Rao, SS.Gr.III, KVK, Kalavacherla expired on 20-12-2001.

## KRISHI VIGYAN KENDRA

### World Food Day

World Food Day was organised at KVK, Kalavacherla on 16-10-2001. Dr. K. Deo Singh, Director, CTRI presided over the function and Dr. V.V. Subramanian, Scientist-in-charge, KVK attended. Nearly 75 farm women and others participated in the programme.

Two guest lectures were delivered by Smt. V.V. Lakshmi Kumari and Smt. N. Aruna Kumari on the topics, i) Low cost high nutrition foods for supplementary nutrition for vulnerable groups, and ii) Enrichment of daily diets for better nutritional status, respectively.



Smt. V.V. Lakshmi Kumari, Dr. V.V. Subramanian and Dr. K. Deo Singh on the dais

### Women in Agriculture Day

Women in Agriculture day was organised on 4-12-01 at KVK, Kalavacherla. A training programme on "Bio-intensive kitchen

gardens and drudgery reducing agricultural implements" was conducted. Forty farm women participated in the training programme.



Smt. V.V. Lakshmi Kumari and Smt. N. Aruna Kumari explaining about infant feeding practices and low cost high nutritious recipe

### Other Programmes

□ Nearly 420 animals were vaccinated / treated by KVK veterinary doctors in Katavaram, Ankampalem and Jeddangi villages on 20-10-01, 30-10-01 and 15-11-01.

□ KVK organised two nutrition education training programmes viz., i) Nutrition education classes to 40 adolescent girls, ii) Supplementary nutrition, health, hygiene and sanitation classes to 40 ZPTC & MPTC women members of all mandals of East Godavari district at Kalavacherla on 10th & 11th December, 2001. These programmes were conducted in collaboration with Community Food and Nutrition Unit, Govt. of India, Visakhapatnam.

□ One Rythu Sadassu was organised at Jeddangi village on 19-12-01. A total of 120 farmers, farm women, school dropouts participated. Group discussions were conducted with farmers on pest and disease management of field and horticultural crops. Forty two animal fertility cases were treated. Cause of nutritional deficiency diseases, symptoms and their prevention were explained to the tribal women. Nutritious recipes were demonstrated to minimise nutritional deficiencies to the women.

□ Thirty trainees from East Gonagudem, Inaparru and Kalavacherla villages were taken to Coir industries at Isukapudi, Ambajipeta villages on 25-12-01 by KVK officials for better understanding of the coir industry.

□ Four long duration income generation training programmes were conducted on Coir yarn making on motorised ratts, Embroidery and Garment making, Coir dying process and Leaf plate making.

□ Six training programmes for Extension functionaries were conducted.

## केन्द्रीय तम्बाकू अनुसंधान संस्थान समाचार पत्रांक, अक्तूबर-दिसंबर, 2001

डा.पंजाब सिंह एक प्रख्यात सस्यवैज्ञानिक ने सचिव, कृषि अनुसंधान एवम शिक्षा विभाग (डेयर) एवम महानिदेशक भारतीय कृषि अनुसंधान परिषद का पद भार 4 अक्तूबर, 2001 को ग्रहण किया।

### अनुसंधान के झलक समग्र बार्न में इंधन की बचत:

इंधन (लकड़ी) का प्रयोग समेकित बार्न में (एक किलोग्राम संसोधित पत्तों के लिए) औसतन 2.43 कि.ग्रा पाया गया जबकि सामान्य लो प्रोफाइल बार्न में एक कि.ग्रा पत्तों के सोधन के लिए 3.44 कि.ग्रा लकड़ी (इंधन) की खपत होती है। इस प्रकार समेकित बार्न के जरिए इंधन (लकड़ी) की बचत 30% के लगभग पाई गई। फ्लू पाइप पद्धति मेर्स टी.आई.डी.ई., बंगलूर द्वारा अभिकल्पित किया गया। एच.पी.गैस के साथ एफ.सी.वी. तम्बाकू के सोधन के लिए कोशिश किया गया जिसमें औसत गैस की खपत 1.00 कि.ग्रा संसोधित पत्तों के लिए 0.77 कि.ग्रा पाया गया।

### सी.टी.आर.आई. में एन.आर.पी (तम्बाकू) का एकक

तारीख 16.8.1998 से अखिल भारतीय तम्बाकू समन्वित परियोजना (वर्तमान में "तम्बाकू पर नेटवर्क रीसेर्च प्रोजेक्ट (एन.आर.पी)" का नाम दिया गया है) जिसकी जिम्मेदारी निदेशक, सी.टी.आर.आई., राजमंद्री को सौंपी गयी है। तारीख 24.10.2001 से डा.पी.आर.एस.रेड्डी, प्रधान वैज्ञानिक को सी.टी.आर.आई. में एन.आर.पी.(टी) के

समन्वयन एकक के प्रधान वैज्ञानिक अधिकारी का पदनाम दिया गया है।

### अनुसंधान सलाहकार समिति की बैठक

इस संस्थान में तारीख 27-28 नवंबर, 2001 को डा.एस.आर.श्रीरंगसामी, निदेशक (सेवानिवृत्त) स्कूल आफ जेनेटिक्स, टी.एन.ए.यू. कोयंबतूर की अध्यक्षता में सी.टी.आर.आई. अनुसंधान सलाहकार समिति की बैठक आयोजित की गयी। उत्पादकता के विकास के द्वारा किसानों के आय की वृद्धि करने, उत्पादन खर्च को कम करने, तम्बाकू को कम हानि-कारक बनाने और देश को अधिक विदेशी मुद्रा को आर्जित करने पर सी.टी.आर.आई. के दृष्टिकोण को आर.ए.सी. ने पूर्णरूप से पृष्ठांकित किया।

### एन.आर.पी.(त.) केन्द्र, शिमोगा (कर्नाटक) ने रजत जयन्ति मनाया

तारीख 12 दिसंबर, 2001 को क्षेत्रीय अनुसंधान केन्द्र, नेविले, शिमोगा के परिसर में 25 वर्ष पूरा करने के उपलक्ष्य में एक भव्य रजत जयन्ती समारोह का आयोजन किया गया जिसमें अन्य लोगों, पदाधिकारियों के अलावा कृषि विश्वविद्यालय के कुलपति डा.कृष्णप्पा, अनुसंधान निदेशक तथा केन्द्रीय तम्बाकू अनुसंधान संस्थान के निदेशक डा.के.देव सिंह ने भाग लिया।

### सी.टी.आर.आई. में प्रशिक्षण कार्यक्रम

1) 10-13 दिसंबर, 2001 के दौरान सी.टी.आर.आई., राजमंद्री में तम्बाकू बोर्ड के क्षेत्रीय अधिकारियों को "समेकित कीट प्रबंधन" पर एक

प्रशिक्षण कार्यक्रम आयोजित किया गया। 2) 11-15 दिसंबर, 2001 के दौरान "सिंचित नाटु तम्बाकू उत्पादन के तकनीक्स के उपर राज्य स्तर के प्रशिक्षण का आयोजन राज्य सरकार के क्षेत्र अधिकारियों के लिए आयोजित किया गया। इस कार्यक्रम का आयोजन कृषि एवं कहकारिता विभाग के प्रसारनिकाय, कृषि मंत्रालय, भारत सरकार, नई दिल्ली के सौजन्य से किया गया।

### कृषि विज्ञान केन्द्र

विश्व खाद्य दिवस का आयोजन तारीख 16-10-2001 को केन्द्रीय तम्बाकू अनुसंधान संस्थान के कृषि विज्ञान केन्द्र, कलवचर्ला में किया गया। डा.के.देव सिंह, निदेशक, केन्द्रीय तम्बाकू अनुसंधान संस्थान ने इसकी अध्यक्षता की तथा डा.वी.वी.सुब्रमणियन, प्रभारी-वैज्ञानिक, के.वी.के., तकनीकी अधिकारी, कर्मचारीगण के अलावा लग-भग एक सौ से अधिक ग्रामीण महिलाओं एवं कृषकों ने भाग लिया। समारोह में विश्व खाद्य दिवस की महत्ता पर प्रकाश डाला गया।

तारीख 4.12.01 को कृषि विज्ञान केन्द्र, कलवचर्ला में "कृषि महिला दिवस" आयोजित किया गया। "जैव-सघन शाक-वाटिकाएँ और श्रम कम करनेवाले खेती उपकरणों" "(बायो इटेन्सिव किट्चेन गार्डेन्स एण्ड इड्जरी रिड्यूसिंग एगीकल्चरल इम्प्लीमेंट्स)" पर एक प्रशिक्षण कार्यक्रम का आयोजन किया गया। चालीस ग्रामीण महिलाओं ने इस प्रशिक्षण कार्यक्रम में भाग लिया।

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