



# ICAR-CIRCOT

## e-News



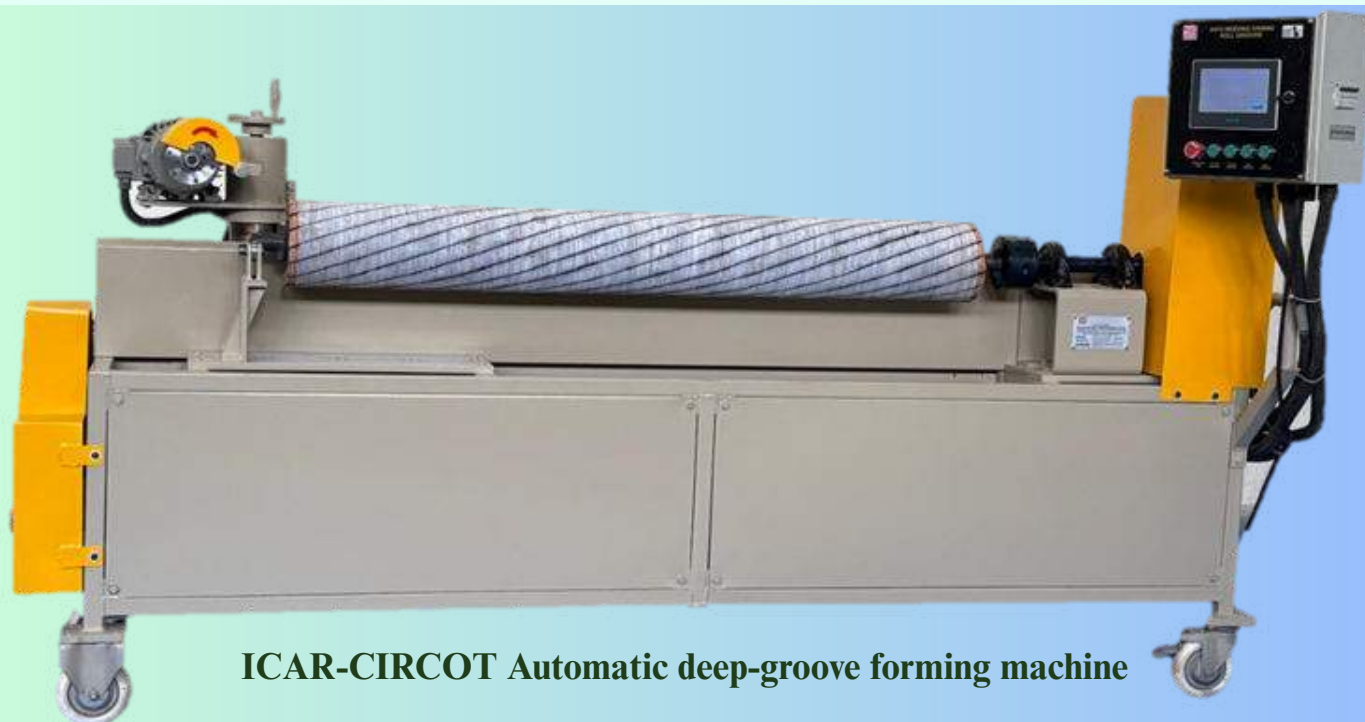
*Global Excellence in Cotton Technology*

*Monthly Bulletin, Volume 6, June 2025*

### *Technology of the Month*

#### **Automatic Deep-Groove Forming Machine for Double Roller Ginning Rolls**

In ginning machines, ginning is facilitated by a pair of equidistant, spirally grooved chrome leather rollers with grooves typically measuring 2 mm in depth and width. Over time, continuous friction during operation causes the roller surfaces to become smooth, leading to slippage of cotton fibres and a decline in ginning outturn. To sustain operational efficiency, these rollers require re-grooving every 2–3 days, a process that is both time-consuming and labor-intensive, resulting in frequent machine downtime. To address this challenge, an automatic deep-groove forming machine has been developed to create uniform grooves on conventional rollers. These specially grooved rollers have spiral grooves up to 25 mm deep, eliminating the need for frequent re-grooving. This not only minimizes machine downtime but also enhances productivity without compromising lint quality. The developed machine is fully automated, user-friendly, and requires only a single operator, thereby reducing both time and labour costs. Moreover, this innovative solution is compatible with all chrome leather roller ginning machines, regardless of roller length or diameter.



**ICAR-CIRCOT Automatic deep-groove forming machine**

## Awareness Programmes

Thirteen teams of CIRCOT scientists conducted about 585 awareness programmes during the Viksit Krishi Sankalp Abhiyan (VKSA), impacting/reaching out to about one lakh farmers across seven districts (Akola, Buldhana, Bhandara, Chandrapur, Nagpur, Thane & Wardha) of Maharashtra during the period from May 29-June 12, 2025



## Participation in Expert Committees

1. Dr. Sujata Saxena, Head, CBPD chaired the 23rd meeting of the 'Speciality chemicals and dyestuffs' Sectional committee (TXD 07) of the BIS held in online mode on 30th May, 2025.
2. Dr. Sujata Saxena, Head, CBPD attended the 27th Textile Division Council meeting of the BIS held on June 11, 2025 in online mode.
3. Dr. S. K. Shukla, Director, CIRCOT and Dr A.S.M. Raja, Head QEID attended Variety Identification Meeting of Cotton BT hybrids/varieties & Non Bt hybrids under AICRP on Cotton as Resource Person on June 19, 2025.
4. Dr. N. Vigneshwaran participated in the first IBSC (Institute Biosafety Committee) meeting of UPL Limited, Thane as a DBT nominee, on June 20, 2025 at the RD Shroff Research and Technology Development Centre, UPL Ltd., Thane.

## Patent Granted

A patent was granted for the Invention titled "WOVEN FABRIC ARCHITECTURE FOR ENHANCED PARTICLE FILTRATION IN FACE MASK FABRIC", Patent No.: 566951.



## Publications

1. Jalgaonkar K, Jagajanantha P, Mahawar MK, Dhakane-Lad J, Patil S, Kautkar S. (2025). Development of Activated Charcoal-Treated Polyester Cotton Blend Fabric for improving Pollutant Removal Efficiency. Agriculture Association of Textile Chemical and Critical Reviews, Accepted for publication.
2. Basak A, Shakyawar DB, Ray DP, Ammayappan L, Jose N, Manisha Jagadale, Raja ASM, Chatterjee H, Sinha S, Bagchi S, Natural fibre reinforced aloe vera infused natural rubber latex dressing-based biodegradable engineered flexible composite, Materials Chemistry and Physics, Volume 344, 2025, 131087.
3. Raj R, Sarojini A, Sreelekshmi KR, Kautkar S, Prakash AK, Lakshmisha IP, Raju CV. (2025) Fish silage fortified poultry feed, its effect on body growth and meat quality of broiler chicks. Agriculture Association of Textile Chemical and Critical Reviews (AATCC Review), 13: (1), 258-265.
4. Ashutosh Pandey, Arputharaj A, Vigneshwaran N, Raja ASM, Senthil Kumar T, Sharmila Patil, Suresh Kumar P, Raja D, Pandiselvam R. (2025). Advancement in biodegradable foam for Packaging, Filtration, Thermal insulation and Medical Application: A Review. Waste and Biomass Valorization. Published: 21 June, 2025.



## Skill Development Programmes

1. The Ginning Training Centre (GTC), ICAR-CIRCOT, Nagpur organized a six-days training programme for farmers from Boudh District, Odisha on the theme "Best Production Practices, Processing of Cotton, and Value Addition to Cotton By-products" from June 16 to 21, 2025. Twenty-three farmers (all male) and one representative (Block Agriculture Officer, Odisha) participated in the training program.
2. The GTC, Nagpur is conducting a training programme on "Best Production Practices, Processing of Cotton, and Value Addition to Cotton By-products" from June 25-30, 2025 for farmers from Odisha. Twenty farmers (all male) and one representative (Block Agriculture Officer, Odisha) are participating.



### CIRCOT Ginning Training Centre holds workshop for Odisha farmers

TNN / Jun 21, 2025, 00:08 IST

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Nagpur: Ginning Training Centre, ICAR-CIRCOT, Nagpur, organised a six-day training programme for farmers from Boudh district, Odisha, on the theme 'Best Production Practices, Processing of Cotton, and Value Addition to Cotton By-products' from June 16 to 21.

A total of 27 farmers attended the programme. The programme was inaugurated in the presence Dr AK Bharimalla, principal scientist, Dr K

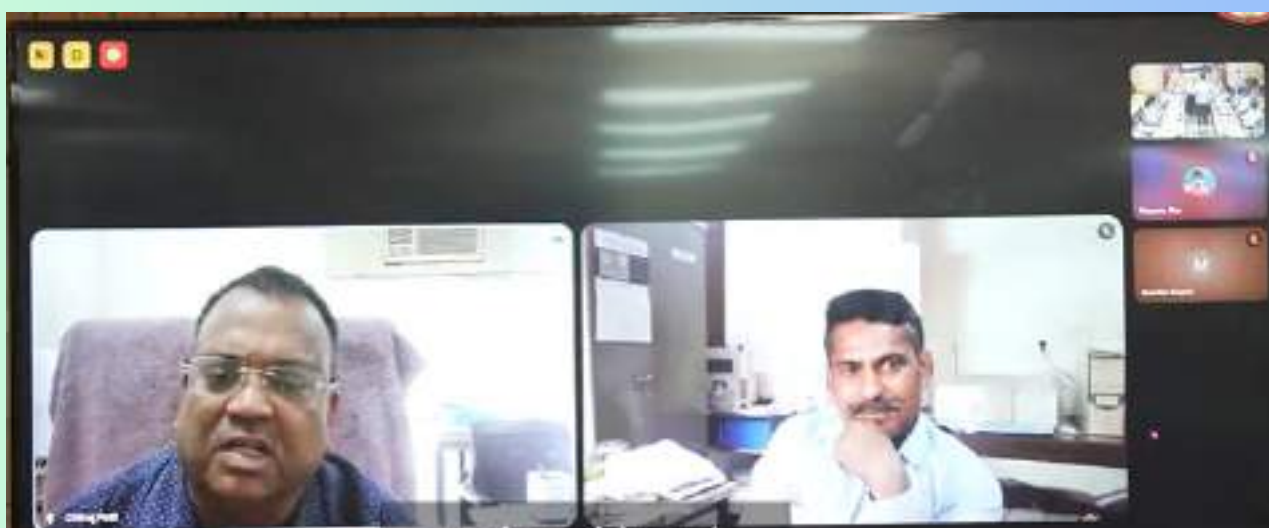
Pandiyani, senior scientist and Lalit Kumar Sahu, block agriculture officer, Odisha. The aim of the training programme was to sensitise the cotton farming community of Odisha about advanced technologies for cotton production and processing technology and value addition to its by-products.

Further the programme is in line with the scheme launched by Odisha Govt CDP-MLIP which is meant for diversification of paddy area to non-paddy area in the mega lift irrigation project area.



## MoU Signed

On June 20, 2025, an MoU was signed with Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir for collaborative research of mutual interest, entrepreneurship development, agri-startup incubation, knowledge and information sharing, joint seminars and conferences, training programmes, and sharing of research facilities.



## MoAs signed

MoAs were signed with following startups by ICAR-CIRCOT R-ABI on June 24, 2025.

- M/s. Greinventek Pvt. Ltd. for development of custard apple pulp extraction machine.
- M/s. ASAIR Green-O-Lands Pvt. Ltd. for economic development of tribal women through value addition of therali.
- M/s. R.A.C. CHOCOLATE IND LLP., for frugal fruit chocolate.
- M/s. CottonGuru Textiles LLP. for utilizing residues juxtaposing agriculture to empower tribal women and smallholder cotton farmers in Maharashtra.
- M/s. Michanologia Enterprises Pvt. Ltd. for Farmer Friendly Household Ginning Machine.
- M/s. Shreel-Surya Research Pvt. Ltd. for phytase producing multifunctional bioinoculant.
- M/s. Sanrajya Agro India Pvt. Ltd. for sugarcane planting machine.

## International Yoga Day Celebration, 2025



## World Environment Day Observation, June 5, 2025





## World Blood Donor Day Celebration, 2025





**ICAR-CIRCOT Scientists in Viksit Krishi Sankalp Abhiyan  
(29-5-2025 to 12-6-2025)**





**ICAR-CIRCOT Scientists in Viksit Krishi Sankalp Abhiyan  
(29-5-2025 to 12-6-2025)**





विकसित कृषिसंकल्प अभियान • शास्त्रज्ञ शेतकऱ्यांच्या दारी, शेतकऱ्यांना मार्गदर्शन  
कापसी येथे ड्रोन फवारणी प्रत्यक्षिक



१. **मोडग्री (रोकजमु), (पा),** कुची व विधान कान्याय मंत्रालय पोचक निर्यातनुमून विनयावर लावल्यावैल कायदी वेले मिळमित कुचिमालय अडिशन मंत्रालयी (रि. 10) राखिल्ल्या असे.

कोरपोरम कुनो विभाग, आठम न कुनो विभाग पैट, सेलमुद्राध्य संयुक्त विभागले सेलमुद्रा नैमि एम्बेल्मन्स अन्तर्गत, मेथिल टावरल इन्फोटे वाणि चौक लगभग



संयोजन क्षेत्र प्रक्रिया इकाई कायदा  
उपस्थित संयोजनकायदा प्रक्रिया के  
संयोजन प्रक्रियाकायदा प्रक्रिया के

Wardha Plus Edition

Jun 12, 2025 Page No. 2

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शेतकऱ्यांनी कमी खर्चाच्या तंत्रज्ञानाचा  
अवलंब करून कृषी उत्पन्न वाढवावे

कृषी शास्त्रज्ञ डॉ. अशोक भारीमल : पातुर्डा येथे शेतकरी शास्त्रज्ञ संवाद कार्यक्रम

■ **सबका लक्ष्य है विकास**

ब्रह्मण्य शनिवार, १४.४.२०१५  
 गैरविधान का मोड खर्च करारा समाधी,  
 कलम खर्च अतिथि कर्म जगज्ज यमसुद्ध  
 नवीन पावसात पावें, लघुपट्टी कायदा  
 होवारा खर्च कमी करवले काय गजवेले  
 असे, पावसाठी गैरविधानाचें कर्म खर्चविणे  
 गैरविधान अजगज्ज करून जगज्जल वाद  
 कलम अतिथि अजगज्ज अतिथि अजगज्ज  
 अजगज्ज, गैरविधानाची गैरविधानाची गैरविधानाची  
 सक्ती प्रमाण ब्रह्मण्य असे अजगज्ज  
 नवीन अजगज्जका वीरविर सिध्दोदत्त पुनर्  
 लेखित जेथे ब्रह्मण्य डॉ. अजगज्ज  
 विधानाचें कर्म केले.

भारतीय कृषि विभाग मंत्रालय व  
भारतीय कृषि अनुसंधान परिषद नयी



**सातुर्डी :** रौतळकणाना मार्गदर्शन करताना जेव्हा कासड ही अरबिक भाषीमत

પિતરાઈ પંચાલ સંપ્રદાય વિદ્યમાને કિશોરના કુલે સંસ્કૃત્ય અધિવાસી ઓળંગતા હા.૩ સુન રીતે વાપરું તેને સોલમની કાલકાલ સંપાદ કરવડકાને ડાહોળા કાલકાલ ડાહો હોતે, ત્યાંથી ડાહો માર્ગદર્શક મળતુ તે

मोला हो, पाकेई कुनो विद्याय केउने  
इमुल तथा पौरा प्रामाद विकल जन्म,  
तल्लय अमिल नाले, हल्लय हल्लुन,  
जेई संघी सुदा अखिले होरी, पाउसी  
कुनो विद्याय केउने कीटक हल्लय लल्लि

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Alkalla, Nona Today  
 05/05/2015 Page No. 7

बडवली येथे विकसित कृषी संकल्प अभियान संपन्न!

डॉ. इन्द्रजित् कुमार शुक्लजी

सुरवात : ( वाक्यान्तार्थ )  
( भाषाभाष्य )

कृषि व विकास  
कल्याण मंत्रालय संस्था  
निदेशानुसार २९ मे ते  
१३ जून दरम्यान ठामे  
जिल्ह्यामध्ये विकसित  
कृषि संकल्प अधिपत्य  
राखण्यात येत आहे.  
स्वर कार्यालय हा ६ जून  
२०२५ रोजी मुंबई  
मार्गदर्शिका कक्षीय  
वेळी कृषि विकास केंद्राचे  
वर्षीय सत्रास व प्रमुख  
डॉ. सुरेश जयदास  
मोघ्या मार्गदर्शनासाठी  
आयोजित करण्यात  
आले.

आकृति १०.१०



ધોન શરૂને તમારા અભ્યાસમાં કરાવે આજેના સાર અધિયાન માટેની કુશી વિજ્ઞાનના સારી રીતે, કુશી વિજ્ઞાન કેટ હાને, કુશી વિજ્ઞાન, કુશી તંત્રજ્ઞાન ધરનારમારના સંચાર ધરનાર સંયુક્ત વિજ્ઞાનને અસંજિત સત્યમાં વેત આજે	શરૂને સારમાં અભ્યાસ તંત્રજ્ઞાન ધરનાર સંચાર સંયુક્ત અસંજિત સત્યમાં વેત આજે
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18	जून	बोली	भागेद
भागेद	पहिल्या	जुलै	

सहपाठी या  
सबरीय पीक  
नय यासिचरी  
भासिदोस केले.  
अदारी चुपे  
मिहिशका झ.  
गंधी सेतलतीत  
नय सेतोपिणत  
हकाकबदल करी  
ले. यासिचरी  
केले. त्याची  
नयत केले की

जाला अवस्थिती नीटकुन  
आपला पायाद्वय कलम  
पेन्सिलनी अवाहन  
केले. बाबकी आभाषे  
संयोजक शीतरी मनाही  
तांबडी सोनी बहिर्गती  
तुकी बरोबर कुल संयुक्त  
समाधान करून अधिक  
सोपड्या विकसना असे  
बसवू केले. सदर कार्यक्रम  
प्रामाणी कसप्यासाठी  
मुंबई पसुविकासीय  
संयोजिकासमवेत सहसोनी  
अधिकारवादी शिरोधार्याने  
आसे कार्यवाहीसाठी  
डॉ. सुरेश चव्हाळ, डॉ.  
सनील हुसे, डॉ.राजेश  
सर्गोदे अति डॉ.पनील  
सत्यांवा सोनी अत्यंत  
प्रियथे केले

## दैनिक शब्दगंगा

## **Employees Retired in the year 2025**

*March, 2025:*

- 1) Shri. K. Thiagarajan, Chief Technical Officer, QE Unit, Coimbatore

*April, 2025:*

- 1) Dr. (Smt.) Sujata R. Kawlekar, Chief Technical Officer, CBPD
- 2) Smt. Smita P. Payala, Assistant, Administration Section
- 3) Shri. S. D. Magar, SSS

*May, 2025:*

- 1) Shri. M.M. Kadam, Technical Assistant

*June, 2025:*

- 1) Dr. (Smt.) Sujata Saxena, Principal Scientist & Head, CBPD
- 2) Shri. H.B. Vesmiya, SSS



**Director with the retired employees of the Institute during the retirement farewell function**



### **Contact us:-**

**Dr. S. K. Shukla**

Director

ICAR-Central Institute for Research on Cotton Technology  
Adenwala Road, Matunga, Mumbai 400019.

URL: <https://circot.icar.gov.in/>

Email: [director.circot@icar.gov.in](mailto:director.circot@icar.gov.in)

Tel: 022-24146002

