



*Global Excellence in Cotton Technology*

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## Visits of Dignitaries

The Hon'ble Minister of State for Textiles and External Affairs, Shri Pabitra Margherita, visited ICAR-CIRCOT, Mumbai, on November 19, 2025, and was the Chief Guest during the live streaming of the programme held for the release of the 21<sup>st</sup> Kisan Samman Nidhi by the Hon'ble Prime Minister at Coimbatore. The Hon'ble Minister was accompanied by Ms. Roop Rashi, CEO, KVIC, GoI.



The Hon'ble Minister of State for Agriculture & Farmers' Welfare, Shri Ram Nath Thakur, visited ICAR-CIRCOT, Mumbai, to review the Institute's activities on November 27, 2025,



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# Process Protocol

## Standard process protocol for determination of ginning percentage of seed cotton

A standardized protocol for determining the ginning percentage (GP) of seed cotton using a laboratory gin was developed through systematic studies on the absorption–desorption behaviour of different cotton varieties and hybrids. The conditioning process was optimized to achieve the desired moisture levels, and the effects of sample size and moisture content on GP were also evaluated. Based on these experimental findings, a standard protocol for the determination of GP of seed cotton using a laboratory gin has been established. The method involves drawing a 500 g–1 kg gross sample from the bulk, selecting a minimum 100 g representative test sample, and conditioning it to 7–8% moisture (w.b.) under standard atmospheric conditions ( $27 \pm 2^\circ\text{C}$ ,  $65 \pm 2\%$  RH) as per IS:196-1966. Ginning is carried out until complete fibre–seed separation is achieved, and GP is calculated from the lint weight as a percentage of the original seed cotton weight. Repeat tests on at least three samples ensure reliable results. This optimized and portable-gin-compatible protocol enables accurate GP estimation, supporting lint-based cotton trading and helping farmers realize better prices for high-GP varieties.

## Awards

- Dr. Manoj Kumar Mahawar received the Distinguished Service Award–2025 from the Indian Society of Agricultural Engineers for his significant contributions in Processing, Dairy and Food Engineering.
- Dr. Sheshrao Kautkar received the Best Oral Presentation Award for his paper, “Development and Evaluation of Deep-Groove Forming Machine for Indian Gineries,” under the subtheme Dairy, Meat, Poultry, Fish and Fibre Processing (Theme: Post Harvest Engineering and Technologies).
- Dr. Shekh Mukhtar Mansuri received the Best Oral Presentation Award for the paper “Machine Vision System for Real-time Modelling and Grading of Arid Fruits,” under the theme Processing, Dairy and Food Engineering,

## Skill Development Program



Five day Training program on "Advances in Applications of Nanotechnology" was organised at CIRCOT HQs, Mumbai from November 10–14, 2025. 14 participants attended.



Four- Day Training program on "Pulp & Paper Technology" was organised at CIRCOT HQs, Mumbai from November 24-27, 2025. 11 participants attended.



Three-day training program was organised at GTC, Nagpur on "Double Roller Ginning Technology and Cotton Grading " for students from November 11-13, 2025. 100 participants attended.



The Ginning Training Centre (GTC), Nagpur, organized an awareness programme on "Fibre Quality Parameters and By-products Utilization" under MGMG at Village Savandri, Kalmeshwar, Nagpur on November 06, 2025. 50 farmers participated.

## Awareness Programme



### **Kasturi cotton awareness Programme on Sustainability of Indian Cotton**

ICAR-CIRCOT, Mumbai, in collaboration with TEXPROCIL and SIMA, Coimbatore, organized a one-day awareness programme on Sustainability of Indian Cotton with special reference to Kasturi Cotton on November 05, 2025 at SIMA, Coimbatore.



The Ginning Training Centre (GTC), Nagpur, organized the live streaming of the programme for the release of the 21<sup>st</sup> Kisan Samman Nidhi by the Hon'ble Prime Minister at Coimbatore on November 19, 2025. 15 farmers participated.





ICAR- CIRCOT organised a demonstration on Green Cotton Biomass Silage” for farmers at Vambori village, Tal. Rahuri, District Ahilyanagar on 21<sup>st</sup> November, 2025.

## Non Discloser Agreement signed

NDA was signed between ICAR-CIRCOT, Mumbai and the Mahindra and Mahindra Limited, Mumbai on November 10, 2025 for testing and improvement of perceived quality on fabrics, leather and leatherette.

## Visits

- Faculty from GH Raisonni, Tulsiram Gaikwad Patil College, and BSIL, Nagpur visited the Ginning Training Centre (GTC) on November 4 and November 20–21, 2025. The team was briefed on ginning technologies, ongoing research, and the facilities available at GTC.
- A group of 10 Agriculture Officer of Government of Tamilnadu, from Thanjavur, Tamilnadu visited Ginning Training Centre (GTC), Nagpur on October 27, 2025.
- A group of staffs from ATMA, Chhindwara, M.P. visited Ginning Training Centre (GTC), Nagpur on November 24, 2025.

## Stakeholder Meet/ Interactions

- Dr. N. Vigneshwaran and Dr. Ajinath Dukare attended an online Stakeholder Consultation Meeting on “DNA-Based Method for Purity and Adulteration Analysis in Textiles,” organized by the Secretary (Textiles), Textiles Committee (GoI) and TEXPROCIL, in coordination with NBRI, on November 04, 2025.

## Publication

### Research Paper

- Kannaujia, P. K., Dukare, A., Kale, S., Nath, P., Singh, R. K., & Singh, P. K. (2025). Coloured plastic mulching influences post-harvest quality of tomato (*Solanum lycopersicum*) fruits under polyhouse conditions. *Indian Journal of Agricultural Sciences*, 95(8), 996–999. <https://doi.org/10.56093/ijas.v95i8.147895>. (NAAS: 6.3)
- Esra Nur Gul, Emine Polat, Ebubekir Altuntas, Manoj Kumar Mahawar. (2025). Engineering and germination characteristics of okra (*Abelmoschus esculentus* L.) cultivars: Implications for processing and cultivar selection. *Journal of the Saudi Society of Agricultural Sciences* (2025) 24:61 <https://doi.org/10.1007/s44447-025-00062-3>

## Paper Presented

- At the 59th Annual Convention of the Indian Society of Agricultural Engineers (ISAE) and the International Symposium on Mechatronics and Robotics in Pre- and Post-Production Agriculture, held from November 10–12, 2025, at ICAR–CIAE, Bhopal, the following research papers were presented
- Dr. V. G. Arude, presented research paper entitled 'High Production Double Roller Gin to Enhance Cotton Ginning Efficiency',
- Dr. Sheshrao Kautkar, S. K. Shukla, V. G. Arude and D. U. Patil, presented paper on “Development and Evaluation of Deep-Groove Forming Machine for Indian Ginneries”
- Mansuri, S.M., Gautam, P.V. and Kushwaha, H.L. presented research paper entitled ‘Machine Vision System for Real-time Modelling and Grading of Arid fruits’, under theme, (Processing, Dairy and Food Engineering).
- Gautam, P.V, Kushwaha, H.L. and Mansuri, S.M. presented paper titled, ‘Development and Performance Evaluation of Electronic Planter Modules Retrofitted on Newly Developed Independent Floating Furrow Openers’, under subtheme Farm Machinery and Power.
- Varsha Satankar, S.K. Shukla, S.V. Ghadge, K. Pandiyan, V.G. Arude and Kirti Jalgaonkar, presented a paper (in online mode) entitled “Optimization of Lint Cleaners for Maximum Cleaning Efficiency”.
- Mahawar MK, Kautkar S, Sundaramoorthy C, Dhakane-Lad J, Arude VG, presented a paper entitled, “Quantification of Processing Losses in Indian Cotton Ginning Industries”.

## Exhibition Organised/ Participated



ICAR-CIRCOT, Mumbai organized an exhibition of textiles and textile-based products on November 19, 2025, during the visit of the Hon'ble Minister of State for Textiles and External Affairs, Shri Pabitra Margherita, to the institute.



ICAR-CIRCOT, Mumbai organized an exhibition-cum-sale of tribes made product on November 14, 2025, during the Jan Jatiya Gaurav Varsh Pakhwada commemorating the 150th birth anniversary of the tribal icon Bhagwan Birsa Munda.



ICAR-CIRCOT Ginning Training Centre (GTC), Nagpur participated in Agrovision-2025 and showcased ICAR-CIRCOT technologies at the event held at RTMNU Ground, Amravati Road, Nagpur from November 21-24, 2025.

## Events

### Celebrating 150 Years of “Vande Maataram”

The institute participated virtually in the national celebration of 150 years of the National Song, “Vande Maataram” led by the Hon’ble PM and held at the Indira Gandhi Indoor Stadium, New Delhi, on November 07, 2025.



### Jan Jatiya Gaurav Varsh Pakhwada

ICAR-CIRCOT and GTC Nagpur observed the Jan Jatiya Gaurav Varsh Pakhwada to commemorate the 150th Birth Anniversary of Bhagwan Birsa Munda from November 1–15, 2025, during which various programmes were organized.





## Samvidhan Divas

ICAR-CIRCOT observed Samvidhan Divas on November 26, 2025, in line with the national theme “Humara Samvidhan, Humara Swabhimaan.” Staff participated in the ‘One Nation One Preamble Moment’ by reading out the Preamble. An essay competition on the same theme was also conducted for staff on November 28, 2025.



## Expert Talk

- Dr. A. S. M. Raja and Dr. G. T. V. Prabu served as technical experts during the panel discussion on “Value Creation and Market Competitiveness with Kasturi Cotton: Opportunities for Spinners and the Downstream Industry,” organized in collaboration with ICAR-CIRCOT, TEXPROCIL and SIMA as part of the Kasturi Cotton Bharat awareness-cum-promotion programme on November 05, 2025, at SIMA, Coimbatore.
- Dr. K. Pandiyan served as the Chief Guest for the “Farmer Training for Special Project on Cotton Technology,” organized jointly by CITI-CDRA, Mumbai and ICAR-CICR, Nagpur, at Daftari Ginning & Pressing, Seloo, Wardha, on November 05, 2025. He also delivered a lecture on Best Post-Harvest Management Practices for Cotton and Fibre Quality Parameters under the ICAR-CICR Special Project “Targeting Technology to Agro-Ecological Zones.”
- Dr. S. K. Shukla, Director, delivered an invited talk on “Mechanization of Cotton Harvesting in India: Challenges and Way Forward” during the 59<sup>th</sup> Annual Convention of ISAE and the International Symposium on Mechatronics and Robotics in Pre and Post Production Agriculture, at ICAR-CIAE, Bhopal, from November 10–12, 2025.
- Dr. G. Krishna Prasad delivered the Keynote Address on “Sustainable Fibre Blends for Next-Gen Para-aramid Protective Gloves” during the One-Week International Seminar on “Advancing Fashion Design Through Quantum Techniques” organized by the School of Design, Presidency University, Bengaluru on 16 November 2025 (online mode).

- Dr. S. K. Shukla, Director, CIRCOT, coordinated the visit of the Hon'ble Union Minister of Agriculture & Farmers' Welfare, Shri Shivraj Singh Chauhan, for the inaugural session of the Asian Seed Congress 2025 held at the Jio World Convention Centre, Mumbai, on November 17, 2025.
- Dr. S. K. Shukla, Director, CIRCOT attended the Asian Seed Congress 2025 held by the Asia and Pacific Seed Association (APSA), in collaboration with National Seed Association of India (NSAI) and the Federation of Seed Industry of India (FSII) at the Jio World Convention Centre in Mumbai on November 17, 2025.
- Dr. A. S. M. Raja served as a resource person and presented a lead paper on "Sustainability of Cotton for Fashion and Textile Industries" during the 8-Day International Professional Development Programme on "Integrating Design, Technology, Management & Innovation in Fashion and Textiles" organized by Amity University Chhattisgarh on November 21, 2025

### **Superannuation**

- Shri R. S. Prabhudesai, Chief Technical Officer, Quality Evaluation & Improvement Division, ICAR-CIRCOT, Mumbai, superannuated on 30.11.2025.
- Shri U. D. Devikar, Chief Technical Officer, ICAR-CIRCOT, GTC, Nagpur, superannuated on 30.11.2025.



### **Contact us**

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