



Extra Long Staple Calibration Cotton for calibration of HVI machines for ELS cotton

* Our country is self-sufficient in producing cotton of different staple length groups except Extra Long Staple cotton (ELS). We are importing 10-15 lakh bales of ELS cotton to meet our domestic cotton requirement. Govt. of India is giving lot of thrust to promote ELS cotton in the country itself. The testing protocol for evaluating quality of ELS cotton is different from the short, medium and long staple cottons. A separate calibration cotton is required for testing ELS cotton. USDA is supplying PIMA calibration cotton for such purpose. However, there is no indigenously available ELS calibration cotton. In view of the above, ICAR-CIRCOT has developed indigenous ELS calibration cotton suitable for our cultivars with the following characteristics.



Sl. No.	Code	UHML (mm)	Uniformity Index (UI) %	Micronaire Value (µg/inch)	Tenacity @ 3.2 mm Gauge Length (g/tex)
(i)	ELS-L	34.4	83.2	2.6	39
(ii)	ELS-S	26.7	81	3.6	26.6
	Tolerance	± 0.5	± 1.0	± 0.1	± 1.5

ICAR-CIRCOT Centenary Lecture



* ICAR-CIRCOT is organizing Centenary Lecture Series in commemoration of its Centenary Year Celebration. The 6th Lecture in this series was delivered by Dr. Y.G. Prasad, Director, ICAR-CICR, Nagpur on the topic “*Key Takeaways from Australian Cotton Industry*”. The lecture was organized in hybrid mode on August 28, 2024 at 2.00 pm.

Plantation Drive at Ginning Training Centre



* A Tree Plantation program under “*Plant4Mother*” Campaign was organized at Ginning Training Centre (GTC), ICAR-Central Institute for Research on Cotton Technology, Nagpur on August 29, 2024.

MoU signed



* An MoU has been signed with M/s. Grevis Healthcare Private Limited for the purpose of providing technical knowledge for establishing surgical cotton plant in consultancy mode on August 17, 2024.

Stakeholder Interactions



- Dr. Archana Kale, Chief Manager (R&D), M/s. Rashtriya Chemicals and Fertilizers Limited (RCF), Mumbai visited the Institute on August 28, 2024 to discuss the nanofertilizer (Nano-zinc) formulation technology developed by ICAR-CIRCOT and Nano-DAP formulation being developed by RCF for quality control and process validation. Dr. S.K. Shukla and Dr. N. Vigneshwaran participated in the discussion.
- Dr. Manoj Mahawar, Dr. Sheshrao Kautkar and Er. D.U. Patil visited M/s. Reliance Bio Energy Industries Ltd., Mauda, Nagpur on August 26, 2024 to discuss about possible collaboration in value addition to cotton biomass.
- Dr. T. Senthilkumar, Dr. Manoj Mahawar, Dr. Varsha Satankar, Dr. Sheshrao Kautkar and Er. D.U. Patil visited M/s. NTPC Ltd., Mauda Super Thermal Power Station, Mauda, Nagpur to explore the possible research collaboration.
- Dr. S. K. Shukla, Director, ICAR-CIRCOT participated in the 8th meeting of the Empowered Programme Committee under National Technical Textiles Mission (NTTM) as ICAR representative at Udyog Bhavan, Ministry of Textiles, Govt of India on August 27, 2024.
- Dr. S. K. Shukla, Dr A.S.M. Raja and Dr. V.G. Arude visited M/s. Mahaveer Ginning & Pressing, Mantha, Jalna on August 30, 2024 regarding a consultancy work on reduction of trash and contamination in the pressed bales. Discussion was held with experts from M/s. BSIL, Nagpur and representative of M/s. Materra India Pvt Ltd., Ahmedabad.
- Dr. S. K. Shukla addressed a KVK meet organised by ICAR-CICR, Nagpur on August 21, 2024 at Nagpur.
- Dr. S. K. Shukla participated in an online meeting chaired by Shri Achannayudu, Hon'ble Minister for Agriculture, & Smt. S. Savitha, Hon'ble Minister for Handlooms & Textiles, Govt of Andhra Pradesh for improving the bale value of AP cotton on August 28, 2024.

Skill Development Programmes



- Total of 37 farmers (including 21 female) were trained on clean cotton picking practice during an event on "Bio enhanced and Climate friendly 109 developed varieties" organised by KVK, ICAR-CICR, Nagpur on August 11, 2024.
- A training program on "Basics of Cotton Grading & Double Roller Ginning Technology" was being organized during August 26-31, 2024 at Ginning Training Centre, Nagpur. Total 15 participants attended this training program.

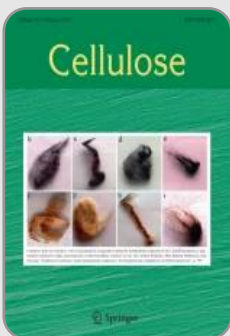
Human Resource Development



- All staff of the Institute are undergoing the online training programme through the IGOT Karmayogi Platform. Karmayogi Bharat, a Special Purpose Vehicle is created as an all-in-one online platform for civil service officials by the Department of Personnel & Training, Government of India.

Publications

- (i) Dhakane-Lad J, Jalgaonkar K, Bharimalla AK, Dukare A, Mahawar MK, Jagajanantha P, Ambare M. (2024). Influence of bees wax chitosan biocoatings on physical and barrier properties of kraft paper. Cellulose. <http://doi.org/10.1007/s10570-024-06111-4>.
- (ii) Dukare A, Krishna Prasad G, Senthilkumar T, Jalgaonkar K, Saxena S. (2024). High Xylanase and Low Cellulase Producing Bacteria as a Whole Cell Biocatalyst for Eco-friendly Surface Modification of Banana Pseudostem Fibers. Bioenergy Research: 1-10.
- (iii) V. G. Arude, S. K. Shukla, P. S. Deshmukh, V. Satankar, R. R. Potdar, A. P. Pandirwar, T. Senthilkumar, G. I. Ramkrushn, G. Majumdar, and R. Raja. (2024). Validation of field performance of commercial hand held mechanical cotton picker at Nagpur region for assessing its effectiveness for smallholder farmers. Journal of Cotton Research and Development. Vol. 38 (2): 243-251.
- (iv) Singh, S.K., Gupta, G., Patil, A.K., Dwivedi, P. N., Pathak, P.K., Kautkar, S. & Satpute, A.N. (2024). Climate-smart hydroponic chamber for efficient green fodder production under resource deficit conditions of semi-arid region. Journal of Plant Nutrition, 1–12.
- (v) Pundir, A., Thakur, M.S., Prakash, S., Kumari, N., Sharma, N., He, Z., Nam, S., Dhumal, S., Sharma, K., Saxena, S. and Kumar, M. (2024) Furfural as a low-volume, high-value asset from agricultural residues: A review on production, agricultural applications and environmental sustainability. Heliyon.



Glimpses of Activities

**ICAR-CIRCOT celebrated the 78th Independence Day on August 15, 2024
with the theme 'Viksit Bharat @ 2047'**



Dr. Y. G. Prasad delivering the 6th ICAR-CIRCOT Centenary Lecture



Experimentals Trials at Torrefaction Pilot Plant, GTC, Nagpur



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