ICAR-CIRCOT news

ISO 9001:2015

Global Excellence in Cotton Technology | Monthly Bulletin, Volume 7, July 2023

Technology of the Month

Cotton based heat generating textiles

A technology on 'cotton based heat generating textiles' that are flexible, light weight, safe and have better comfort properties is developed by Dr. P. Jagajanantha and his team from ICAR-CIRCOT, Mumbai. The specially designed yarns are used in heat generating smart textile products for use in automobile seat covers, thermal jackets, heating gloves, warm mouse pads and heating pads etc. The technology has been selected among the Top 5 technologies under agricultural engineering SMD of ICAR for the year 2023 and released at the hands of Hon'ble Shri Parshottam Rupala, Union Minister for Fisheries, Animal Husbandry & Dairy in the presence of Shri Kailash Choudhary, Union Minister of State for Agriculture and Farmers Welfare and Dr. Himanshu Pathak, Secretary (DARE) and Director General (ICAR) during the 95th ICAR Foundation Day and Technology Day celebrated on 16th July, 2023 at National Agriculture Science Complex, Pusa, New Delhi.

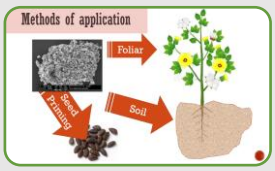
ICAR Foundation Day and Technology Day

- On the occasion of 95th ICAR Foundation Day, a grand program was organized during July 16-19, 2023 at Dr. C. Subramaniam Auditorium of NASC Complex in New Delhi.
- Dr. S. K. Shukla, Director along with Dr. A. K. Bharimalla, Principal Scientist; Dr. P. Jagajanantha, Senior Scientist; Mr. Ravi Chhangani,CTO; Mrs. Prachi Mhatre, ACTO and Hemant Ladgaonkar, Business Manager, R-ABI participated in the program.
- Twelve technologies of ICAR-CIRCOT developed during the last three years have been certified during the Technology Day.

QRT Meeting

• QRT meeting of the institute was held during July 24-25, 2023. QRT team is chaired by Dr. K. K. Singh, Vice Chancellor, Sardar Vallabhbhai Patel University of Agriculture & Technology, Modipuram, Meerut. It reviews the performance of the Institute for the period 2017-2022.

Review meeting on Inter-Institutional Project



• A meeting was held under the chairmanship of Dr. S. K. Shukla, Director, ICAR-CIRCOT, Mumbai on 5th July 2023 to review the progress of the Inter-Institutional project "II-02: Efficacy evaluation of ICAR-CIRCOT Nano-ZnO as nanofertilizer in field crops". In addition to scientists from ICAR-CIRCOT, scientists from ICAR-IIPR, Kanpur; ICAR-CICR, Nagpur & Coimbatore; and, ICAR-NIASM, Baramati presented their progress of research.

Editors: S. K. Shukla, N. Vigneshwaran, C. Sundaramoorthy and Anand Jadhav

Outreach Activities

- ICAR-CIRCOT exhibited its technologies during the 95th ICAR Foundation cum Technology Day celebration from 16 to 19 July 2023 in New Delhi.
- Various products of ICAR-CIRCOT were displayed for the stakeholders.

Skill Development Activities

- Four batches of 3-days training on “Best Post-harvest Management Practices for Production of Premium Cotton Bales” under SMART Cotton were conducted at the Ginning Training Centre, ICAR-CIRCOT, Nagpur (during July 17-19, 2023; July 20-22, 2023; July 24-26, 2023 and July 27-29, 2023). Total 175 participants attended this training.
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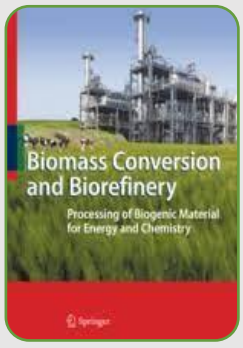
Awards and Accolades

- Dr. Manoj Kumar and Dr. D.M. Kadam were honoured with the prestigious "Shri Nilesh Patel (N.K. Proteins) Innovation Award for Cottonseed & Cottonseed Oil Supply Chain" at the 4th SEA-AICOSCA Cottonseed, Oil & Meal Conclave 2023 at Aurangabad during 7-8 July, 2023. The awards were bestowed upon them by Shri Abdul Sattar, the Agriculture Minister of Maharashtra.
- G. Krishna Prasad, T. Senthilkumar, P Jagajanantha, ASM Raja. N Vigneshwaran, N Shanmugam, received Best Paper Award for the paper, “Development of Cotton Nonwoven Based High Performance Secondary Wound Dressing Material" in Second International Conference on -Integration of Advanced Technologies for Industry 4.0 (ICIATI 2023) organized by KCG College of Technology, Chennai, during 23-24th June 2023.
- T. Senthilkumar, G. Krishna Prasad, A.S.M Raja, V.G. Arude, P. Jagajanantha, N. Shanmugam received Best Paper Award for the paper, ‘Sustainable approach: process protocol for spinning of recycled cotton/polyester blended yarn’, in “Second International Conference on -Integration of Advanced Technologies for Industry 4.0 (ICIATI 2023) organized by KCG College of Technology, Chennai, during 23-24th June 2023.

Publications



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- Singh, S. K., Pathak, P. K., Gurjar, B and Kautkar, S. 2023. Design and development of a defluffing machine for dinanath grass seeds (Pennisetum pedicellatum). Agricultural Mechanization in Asia, Africa and Latin America, 54(1):42-48 (NAAS -6.29)
- P. Gracy, K.M. Pachiyappan, T. Murugan, T. Senthilkumar, G. Krishna Prasad & Senthil Kumar “Dynamic mechanical behavior of coir fiber composite using Taguchi’s parametric design approach”. Biomass Conv. Bioref. (2023). (NASS Rating 10.05)
- Soni, S., Babel, R., Srivastava, M., Saxena, S., Arputharaj, A. (2023). Review on Recent Developments in Fabric Softeners: Focus on Improvement in Functionalities and Sustainability, Journal of Community Mobilization and Sustainable Development 18 (2), 399-406 (NAAS- 5.67).
- Dukare A., Sharma K., Vigneshwaran, N., Nehete, L and Saxena, S (2023), Valorization of cotton seed hulls as a potential feedstock for the production of thermostable and alkali-tolerant bacterial xylanase. Accepted for publication in Bioenergy Research journal (NAAS-9.85) (IF-3.6). (Accepted paper for publication).

Glimpses of Activities

Tech on 'Heat generating smart cotton textiles' of ICAR-CIRCOT, Mumbai launched

The Indian Council of Agricultural Research (ICAR) celebrated its 95th Foundation Day on 16 July 2023 at National Agriculture Science Complex, Pusa, New Delhi. Narendra Singh Tomar, Union Minister of Agriculture and Farmers Welfare was the Chief Guest of the program & attended the meeting virtually. Parshottam Rupala, Union Minister for Fisheries, Animal Husbandry & Dairying, Kailash Choudhary, Union Minister of State for Agriculture & Farmers Welfare and Dr. Himanshu Pathak, Director General, ICAR graced the occasion. Rupala inaugurated an exhibition showcasing innovative technologies developed by 113 ICAR research institutes.

FPJ Mumbai, 18-7-2023

तरुण भारत

Main Edition | 2023-07-14 | Page- 6
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केंद्रीय कापूस तंत्रज्ञान शास्त्रज्ञांना पुरस्कार

कपाशी बियाणे मूल्यवर्धनावर संशोधन

मुंबई, दि. १३ : प्रतिनिधी

'भारतीय द्रावक एक्स्ट्रॅक्टर्स संघटना' आणि 'अखिल भारतीय कापूस बियाणे क्रशर संघटने'द्वारे फर्न रेसिडेन्सी, छ. संभाजीनगर येथे चौथ्या कापूस बियाणे, तेल आणि जेवण परिषद २०२३चे आयोजन करण्यात आले होते.

भारतीय कृषी संशोधन परिषदेच्या– केंद्रीय कापूस तंत्रज्ञान संशोधन संस्था, मुंबई कडून, डॉ. एस. के. शुक्ला (संचालक), डॉ. डी. एम. कदम, डॉ. व्ही. जी. आरुडे आणि डॉ. मनोज कुमार यांनी या परिषदेमध्ये सक्रिय सहभाग घेतला. 'भारतीय द्रावक एक्स्ट्रॅक्टर्स संघटना' आणि 'अखिल भारतीय कापूस बियाणे क्रशर संघटने'ने कापूस बियाणे आणि कापूस बियाणे तेल पुरवठा साखळीतील उत्कृष्ट योगदानाबद्दल पुरस्कार प्रदान केले.

डॉ. मनोज कुमार आणि डॉ. डी. एम. कदम यांना प्रतिष्ठित 'नीलेश पटेल (एन. के. प्रोटीन्स) इनोव्हेशन अवॉर्ड फॉर कॉटनसीड आणि कॉटनसीड ऑईल सप्लाय' पुरस्कार देऊन गौरविण्यात आले. डॉ. मनोज कुमार यांना कापसाच्या बियाण्यांमधून अति कमी गॉसिपॉल प्रथिने काढण्याच्या संशोधन कार्यासाठी २० हजार रुपयांच्या रोख पुरस्कारासह प्रथम पारितोषिक मिळाले. डॉ. डी. एम. कदम यांना कापूस बियाणे प्रथिने काढण्यासाठी प्रायोगिक यंत्रसंचाची रचना आणि विकास यावर केलेल्या संशोधनासाठी १५ हजार रुपयांच्या रोख पुरस्कारासह द्वितीय पारितोषिक प्रदान करण्यात आले. कृषिमंत्री अब्दुल सत्तार यांच्या हस्ते त्यांना हा पुरस्कार प्रदान करण्यात आला. डॉ. डी. एम. कदम यांनी 'तेलविरहित कापसाच्या केकपासून प्रथिने काढण्यासाठी प्रायोगिक यंत्रसंचाची रचना आणि विकास व त्याचे मूल्यवर्धन' या विषयावर त्यांचे पुरस्कारप्राप्त संशोधन सादर केले. डॉ. मनोज कुमार यांनी 'प्रथिने पुनर्शोध: अति कमी गॉसिपॉल प्रथिने सह कापूस बियाणे प्रथिने उद्योगात क्रांती' या पुरस्कारप्राप्त संशोधन कार्याचे प्रदर्शन केले. डॉ. एस. के. शुक्ला यांना कापूस बियाण्यांच्या मूल्यवर्धनाशी संबंधित विविध पैलूंवर चर्चा करण्यासाठी प्रतिष्ठित पॅनेल सदस्य म्हणून आमंत्रित करण्यात आले होते.

देशातील कापूस प्रक्रियेमध्ये होणार वाढ...

डॉ. शुक्ला यांनी कापूस लिंटर आणि कापूस बियाणे पेंडीचे मूल्य वाढविण्यासाठी व्यवहार्य उपाय सुचवले. शिवाय, त्यांनी आदर्श पोल्ट्री अन्न म्हणून कापूस बियाणे पेंडीचा प्रचार करण्यावर भर दिला आणि मशरूम लागवडीसाठी 'बेडिंग मटेरियल' म्हणून कापूस बियाण्याच्या टरफलचा वापर करण्यावर भर दिला. डॉ. आरुडे यांनी कापूस बियाण्यांच्या शाश्वोक्त प्रक्रियेशी संबंधित विविध महत्त्वाच्या समस्यांचे निराकरण केले आणि देशातील कापूस बियाणे प्रक्रिया वाढविण्यासाठी प्रभावी पद्धतींची शिफारस केली.

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The Only National Textile Daily

Tecoya Trend

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QCO on polyester yarns effective 5th Oct 2023

By Our Staff Reporter

MUMBAI, JULY 17— The Ministry of Chemical and Fertilisers (Department of Chemical and Petrochemicals today notified that the Quality Control Order (QCO) for 100 Percent Polyester Spun Grey and White Yarn, Polyester Continuous Filament Fully Drawn Yarn and Polyester Partially Oriented Yarn will come into force on the 05th day of October, 2023.

The Bureau of Indian Standards shall be the certifying and enforcing authority of the QCO for the above mentioned yarns. The QCO will not apply to goods or article meant for export, the circular said.

Better Cotton signs UN pledge for traceability and transparency

From Tecoya NewsDesk

MUMBAI, JULY 17— Better Cotton has signed the United Nations Economic Commission for Europe framework to convene credible key enablers for sustainability and circularity.

The UNECE launched the

Increasing MSP year after year is not a good sign: Secy AICOSCA

By Our Staff Reporter

MUMBAI, JULY 17— The Indian cotton farmers' no doubt need Minimum Support Price (MSP). But if India goes on increasing price of MSP, year after year, it will not be a good reflection on other cotton producing countries of the world, according to Mr. P. Kotirao, Secretary, All IndiaCotton SeedCrushers Association (AICOSCA).

Addressing the 4th SEA-AICOSCA Cottonseed, Oil and Meal Conclave – 2023 held in Aurangabad recently, Mr. Kotirao called upon the central government to reduce import duty on cotton to make import of cotton possible.

He expressed concern over no positive increase in Indian cotton yield and added that the increase in yield has to be achieved, step by step, by the farming community.

Mr. Kotirao also stressed on 'Scientific Processing of Cottonseed' for more cottonseed oil extraction vis-à-vis traditional processing as scientific processing will result in more oil extraction of 3-4 lakh tonnes.

He also pointed out that at present Scientific Processing of cottonseed is confined only to the State of Telangana.

Mr. Kotirao felt that if the entire available cottonseed is scientifically processed we can get 5/6 lakh tonnes of extra edible oil, which will result in reduction is import of huge quality of edible oil, the present trend.

Dr. S. K. Shukla, Director, Central Institute Research on Cotton Technology (CIRCOT) during the conference also mentioned about promoting scientific processing of cottonseed, though the same will require huge investment on machineries of about Rs. 15 crores.

During the panel dicussion at the confernce, it was impressed upon production of more Linters which have high value addition and production of Viscose from Linters in place of 'wood pulp' as raw material.

There was also mention of high protein content of (30% to 40%) in cottonseed meal and hence its utilization.

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