

# First Circular



## INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES IN SILK SECTOR - SILKTECH 2025

February 15, 2025

Venue: Bharat Mandapam, New Delhi, India



### ORGANIZED BY

CSB-Central Tasar Research & Training Institute (CSB-CTRTI), Ranchi  
CSB-Central Silk Technological Research Institute (CSB-CSTRI), Bengaluru  
Central Silk Board, Ministry of Textiles, Govt. of India, INDIA

## ABOUT THE CONFERENCE

An *International Conference on “Emerging Technologies in SILK SECTOR - SILKTECH 2025”* is set to be a crucial scientific event within Bharat Tex 2025, celebrating silk's enduring legacy and its evolving applications. Known as the "Queen of Textiles," silk has captivated humanity for centuries with its elegance, luster and comfort. India, renowned for its production of all major commercial types- Mulberry, Eri, Muga and Tasar and holds a distinguished position in the global silk industry and stands poised to lead in raw silk production. Beyond its traditional role in textiles, silk now finds novel applications in cosmetics, pharmaceuticals, nutraceuticals, and medical and technical fields. This conference will explore the latest advancements in conventional silk production and technical textiles, emphasizing global market trends and sustainable innovations across the silk production chain, from farm to fabric, including by-products. This International R&D event will cover the emerging technologies in the field of silk sector for sustainable and inclusive growth of silk industry. Emerging technologies in silk sector for sustainable and inclusive growth of silk sector will be addressed during the international conference.

Following major areas will be the core focus of conference by covering pre-cocoon and post-cocoon sector of silk Industry.

- ❖ Production and productivity of all silk varieties
- ❖ *Silk* as "Queen of Textiles," Traditional and global scenario of silk.
- ❖ R&D updates in- Mulberry, Eri, Muga and Tasar
- ❖ Emerging trends in the global silk industry
- ❖ Biotechnological intervention in silk sector
- ❖ Silk novel applications in cosmetics, pharmaceuticals, nutraceuticals, medical and technical fields
- ❖ Latest advancements in conventional silk production and technical textiles
- ❖ Emerging technologies “farm to fabric” and Silk by-products
- ❖ Carbon sequestration in silk sector
- ❖ Global silk market trends and sustainable innovations across the silk value chain

## ABOUT BHARAT TEX 2025

This important event witnesses the dynamic fusion of Textiles, Fashion and Sustainability in India's heartland. The textiles and apparel industry in India is thriving across its entire value chain, from fibre to apparel. With a diverse range of products, including traditional handloom, handicrafts, wool, silk, and organized textile industry segments, the industry is highly segmented. As a capital-intensive industry, the organized textile sector is characterized by mass production, spinning, weaving, processing, and apparel manufacturing. The textile industry is the largest employment generator in India, creating jobs and opportunities for ancillary sectors. It accounts for nearly three-quarters of the country's total fibre consumption, with

cotton being the dominant fibre. India is renowned for its significant production capacity in cotton and jute garments globally. However, the industry faces stiff competition from China, Bangladesh, Pakistan, and Vietnam in the global market.

Despite the challenges posed by the COVID-19 pandemic, the Indian textile industry has demonstrated resilience and recovery. The industry encompasses not only large textile mills and high-end garment boutiques but also self-employed artisans from rural areas, who are supported through government schemes like MGNREGA and NGOs. Building on the success of Bharat Tex's first edition, Bharat Tex-2025 aims to establish itself as a premier international industry platform. The event will feature exhibitions, knowledge sessions, thematic discussions, G2G meetings, B2B networks, MoUs, product launches, and interactive pavilions. It will attract top policymakers, global CEOs, international exhibitors, and buyers.

Bharat Tex-2025 will focus on transforming the textile industry into a futuristic domain of growth and development, with pavilions dedicated to sustainability, circularity, and digitization. The event will also feature interactive fabric testing zones, product demonstrations, and master classes by experienced craft persons. India takes pride in its rich textile heritage, and Bharat Tex-2025 will showcase the country's solid foundation of tradition, innovation, and sustainability. The event will reinforce India's position as a pioneer in sustainable textile manufacturing, leading the world across the entire value chain.

### **About Central Silk Board:**

The Central Silk Board (CSB) is a Statutory Body, established during 1948, by an Act of Parliament (Act No.LXI of 1948). It functions under the administrative control of the Ministry of Textiles, Government of India, having head quarters at Bengaluru. The mandates of CSB are Research and Development, silkworm seed production network, leadership role in commercial silkworm seed production, standardizing and quality parameters in the various production processes and advising the Government on all matters concerning sericulture and silk industry. These mandated activities are being carried out by the **159** units of CSB located in different States through an integrated Central Sector Scheme viz., "Silk Samagra" for development of silk industry.

### **About CSB-CTRTI Ranchi:**

CSB-Central Tasar Research and Training Institute (CSB-CTRTI) Ranchi is an Institute par excellence catering to R&D need of tropical and temperate (Oak) tasar sectors. The Institute was established in Ranchi in 1964 under the administrative control of Central Silk Board, Ministry of Textiles, Govt. of India for overall development of Tasar Silk Industry in the country. It is engaged in generating useful technologies through Research & Development and its effective transfer in the field, with an ultimate aim to improve the socio-economic status of the stakeholders associated with tasar culture. Besides carrying out research on different aspects of tasar culture of direct field applicability, it also undertakes research on molecular level to unearth certain intricacies of tasar silkworm for achieving higher productivity and quality. The Institute has 06 Regional Stations (RSRS), 03 Research Extension Centres (REC), 01 P4 Station and 01 Raw Material Bank to provides the state-of-



the-art technological know-how to the command states, both under tropical and temperate tasar sector. The Institute provides need based Research, Development/Extension and HRD support to the states viz. Jharkhand, Chhattisgarh, Odisha, Maharashtra, Andhra Pradesh, Telangana, Madhya Pradesh, Bihar, Uttar Pradesh and west Bengal for Tropical Tasar and Uttarkhand, Himanchal Pradesh for Oak Tasar. The priority of the research activities is based on the evaluation of cost effective technologies towards increasing the productivity of tropical and Oak tasar silkworm.

## **ABOUT CSB-CSTRI**

Central Silk Technological Research Institute (CSTRI), situated in Bengaluru is the only research institute in the country dedicated to the Research & Developmental activities related to post-cocoon technology. Established in the year 1983 by the Central Silk Board, Ministry of Textiles, Govt. of India, today, it is recognized as a premier Textile Research Institute in the country dedicated to the post cocoon aspects including silk reeling, byproduct utilization, twisting, weaving, wet processing, product design and development. CSTRI promotes the improvement in quality and productivity through "Silk Samagra", an integrated scheme for development of silk industry by the Govt. of India. The schemes include some of the machinery and processes developed by the institute.

In order to remain globally competitive, CSTRI aims to provide a common platform to extend and exchange their valuable ideas to develop a realistic plan of actions for development of mulberry and vanya (non-mulberry) silk industry across International borders. In this context, CSTRI is organizing International Conference on Global Scenario and Sustainable Solutions in Silk Industry for the benefit of all stakeholders including researchers, industry, innovators, institutes and students as part of the mega event Bharat Tex Expo 2024 at New Delhi, India.

### **Objective:**

The conference aims to provide a common platform to deliberate about the **EMERGING TECHNOLOGIES IN SILK SECTOR** of mulberry and vanya (non-mulberry) silk sectors across the globe for sustainable and Inclusive growth. The conference is expected to gather new and innovative ideas for the overall development of the global silk industry in the true spirit of Vasudhaiva Kutumbakam - One Earth, One Family and One Future

**SUB-THEMES/ SUBJECT AREAS:** Following major areas will be the core focus of conference by covering pre-cocoon and post-cocoon sector of silk Industry.

- ❖ Technologies in silk sector for sustainable and inclusive growth of silk industry.
- ❖ Production and productivity of all silk varieties
- ❖ *Silk* as "Queen of Textiles," Traditional and global scenario of silk.
- ❖ R&D updates in-Mulberry, Tropical Tasar, Oak Tasar, Muga and Eri sector
- ❖ Emerging trends in the global silk industry.
- ❖ Biotechnological intervention in silk sector

- ❖ Silk novel applications in cosmetics, pharmaceuticals, nutraceuticals, medical and technical fields.
- ❖ Latest advancements in conventional silk production and technical textiles.
- ❖ Emerging technologies “farm to fabric” and Silk by-products.
- ❖ Carbon sequestration in silk sector
- ❖ Global silk market trends and sustainable innovations across the silk

## **Call for Poster Presentation**

Participants are invited to present (Paper and poster) research/ review/base papers based on their own research work/expertise/experiences in various fields of mulberry and non-mulberry post cocoon sector in traditional and non-traditional applications of silk. The poster may be prepared in Jpeg format in 3X4 feet size.

## **Participants**

Researchers, Scientists, Academician, Planners, Policy makers, Research Scholars, Entrepreneurs, Exporters, Fashion Designers, Government Officials, Faculty members, Students and others. Prior registration is essential for participation.

**Note:** The last date for registration and submission of Abstract/Lead Papers is 31.01.2025. The registration is offered on First come First serve basis as only Limited seats are available. Based the recommendation of organising committee the participation will be confirmed.

## **Invited Speakers:**

Eminent Speakers from Across the Globe from Leading Research / Academic Institutes and Industry would be participating and giving a lead speech in the conference addressing the conference theme.

## **Signing of MoU/MoA**

During the conference, CSB will be signing MoUs/MoAs with reputed International and National Institutions/Organizations on prospective collaboration for various Silk Product Developments and Technologies under various research initiative areas.

## Organising committee:

Chief Patron	:	<b>Smt. Prajakta L Verma, IAS</b> Joint Secretary (Textiles) MoT, Gol. New Delhi
Patron	:	<b>Shri P. Sivakumar, IFS</b> Member Secretary CSB, Bengaluru
Co-Patrons	:	<b>Dr. A.K. Sinha</b> , Vice Chancellor Ranchi University
	:	<b>Dr. S. Manthira Moorthy</b> Director (Tech) CSB, Bengaluru
Chairman	:	<b>Dr. N.B. Chowdary</b> Director, CSB-CTRRTI Ranchi
	:	<b>Dr. Periyasamy S.</b> Director, CSB-CSTRI CSB, Bengaluru
Organizing Secretaries	:	<b>Dr. J.P. Pandey</b> , Scientist-D, CSB-CTRRTI Ranchi <b>Dr. K. Jena</b> , Scientist-D, CSB-CTRRTI Ranchi <b>Dr. S. Nivedita</b> , Scientist-D, CSB-CSTRI Bengaluru <b>Mr. M. R. Itagi</b> , Scientist-D, CSB-CSTRI Bengaluru
Organizing Team	:	Scientists from CSB-CTRRTI Ranchi & CSB CSTRI Bengaluru
Co-Convener (Int. Delegates)	:	<b>Shri Padmanav Nayak</b> Asst. Secretary (Tech),CSB/ Prog.Coordinator ISC, Bengaluru

## KNOWLEDGE PARTNERS

- Delhi University Delhi
- Indian Institute of Carpet Technology Bhadohi.
- Indian Institute of Technology Delhi
- BIT Mesra Ranchi
- Ranchi University Ranchi
- All the CSB R & D and Seed organizations

**All Correspondence to:** Dr. N.B. Chowdary, Director, CSB-CTRRTI-Ranchi  
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Global Textile Expo  
New Delhi | Feb 14-17

TEXTILES  
FASHION  
SUSTAINABILITY



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**February 15, 2025**

## **REGISTRATION FORM**

1. Name:.....

2.Designation:.....

3.Affiliation:.....

4.Address for communication:.....

5. Title of presentation:

6. Specific Theme

7.Mobile No:.....

8.Email:.....

9.Gender :.....

10.Academic Qualification :.....

11.Subject/ Specialization :.....

12 Place:.....

Date:.....

**Signature of Applicant**

**Recommendation from Head of Organization**