

National Conclave on Hometech - “CARPET FOR TECHNICAL APPLICATION” held in Bhadohi, UP



- **Rs. 1,900 Cr Approved for PM MITRA Textile Park in Virudhunagar, Tamil Nadu**
- **Raksha Rajya Mantri commends DMSRDE's Indigenous Defence Innovations in Kanpur**
- **DRDO & AIIMS Bibinagar unveil India's first low-cost advanced Carbon Fibre Foot Prosthesis**

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CONTENTS

Issue No. 96 | July-August, 2025

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| | |
|----------------------------|--|
| 05 | SPECIAL REPORT |
| 05 | National Conclave on Hometech - Carpet for Technical Application |
| 13 | MEMBERS' FORUM |
| 14 | ITTA ACTIVITIES |
| 14 | ENGAGEMENTS WITH STATE & CENTRAL GOVT. |
| 14 | Meeting of Sub-Committee on Technical Textiles Machinery |
| 14 | Meeting of Consultative Committee on Technical Textiles under NTTM |
| 15 | DEVELOPMENT OF INDIAN STANDARDS ON TT |
| 15 | Textiles Protective Clothing Sectional Committee, TXD 32 |
| 15 | Geosynthetics Sectional Committee, TXD 30 |
| 15 | Technical Textiles for Sportech Applications Sectional Committee, TXD 37 |
| 16 | NATIONAL NEWS |
| 16 | PLI Scheme - A Game Changer for India's Textile Sector |
| 17 | Rs 1,900 Crore Cleared for Virudhunagar PM MITRA Textile Park in Tamil Nadu |
| 17 | Raksha Rajya Mantri Commends DMSRDE's Indigenous Defence Innovations in Kanpur |
| 18 | Union Minister of Textiles visited Japan to Boost Investments & Business Developments on Textiles in India |
| 19 | Allocation of Funds to PLI Scheme |
| 21 | INNOVATIONS & TECHNOLOGY |
| 21 | High-Performance Marine Coatings for Sail Cloth and Outdoor Textiles |
| 22 | New Woven Composite Material for high-performance outdoor gear |
| 22 | Advanced technology for 3D composite parts |
| 23 | Versatile new thermoplastic glass fibre tapes |
| 24 | Geocell Technology to Tackle Plastic Waste in Road Construction |
| 24 | DRDO & AIIMS Bibinagar unveil India's first low-cost advanced Carbon Fibre Foot Prostheses |
| 25 | Flexi-Light PET: Sustainable sound insulation for vehicles |
| 26 | EXPORT-IMPORT TREND OF TECHNICAL TEXTILE PRODUCTS |
| 33 | UPCOMING EVENTS |
| ADVERTISEMENT INDEX | |
| 02 | RABATEX |
| 31 | Shri Radhika Nonwoven Pvt. Ltd. |

NATIONAL CONCLAVE ON TECHNICAL TEXTILES - HOMETECH - “CARPET FOR TECHNICAL APPLICATION”

The Indian Technical Textile Association (ITTA) jointly with the National Technical Textiles Mission (NTTM), Ministry of Textiles, Government of India and in partnership with the Indian Institute of Carpet Technology (IICT) successfully organised the NATIONAL CONCLAVE ON TECHNICAL TEXTILES - HOMETECH “Carpet for Technical Application” on Friday, 20th June 2025 at the Carpet Expo Mart, Bhadohi, Uttar Pradesh.

Shri. Ajay Gupta, Joint Secretary, Ministry of Textiles, Government of India, was the Chief Guest at the conclave and addressed the delegates. In his remarks, he emphasized the Government of India's commitment to promoting the production of world-class carpets through innovative schemes and targeted support for developing carpets with technical and functional applications such as those used in sports, yoga, gymnasiums, as well as wear-resistant, stain-free, flame-retardant (FR), and bio-based carpets. He stressed the importance of aligning the industry with the vision of Atmanirbhar Bharat to reduce import dependency and enhance self-reliance. Focus must be placed on scaling up the production of advanced carpets using sustainable raw materials and eco-friendly chemical processes. India, as a global leader in handmade carpets, exports nearly 90% of its production. In the financial year 2024-25, the export value of handmade carpets and floor coverings reached ₹17,740 crores. The sector remains highly labour-intensive, supporting millions of livelihoods particularly among women. He urged every carpet manufacturer to actively contribute to the growth, innovation, and global recognition of the Indian carpet industry.



Lamp Lighting - Shri. Ajay Gupta-JS, Shri. Ravi Patodia -COA CEPC, Shri. Avinash Misar - ITTA, Prof. Rajeev Vershney-IICT



*Welcoming Shri. Bal Krishna Tripathi (IAS),
Commissioner, Vindhya Mandal, UP*

The welcome address was delivered by Shri. Avinash Misar, Chairman of ITTA. He warmly welcomed the Chief Guest and all the delegates for attending the conclave. He emphasized that such initiatives, driven by collaborative efforts and active industry participation, are vital to the success of the event. He stated that the objective of the Conclave featuring

Shri. Bal Krishna Tripathi (IAS), Commissioner, Vindhya Mandal, Uttar Pradesh, was the Guest of Honour at the conclave. In his address to the delegates, he emphasized that carpet manufacturers in Bhadohi should transition from conventional carpets to machine-made carpets and focus on innovation to promote the growth of functional carpet manufacturing in the region.



Shri. Avinash Misar - Chairman - ITTA

both a conference and exhibition was to create awareness about the latest product innovations and technological advancements in the carpet sector. The event aimed to facilitate knowledge exchange, inspire new investment and export opportunities, deepen understanding of current industry and market requirements, and establish a strong B2B and B2G platform to support the overall growth of the carpet industry. Shri Misar also highlighted that India's carpet industry has a significant footprint, with a business turnover of nearly ₹80,000 crores, of which approximately 80% is export-oriented. A substantial share of this output comes from the carpet clusters and industries present in this region, underscoring its importance in the national and global carpet market.

Shri. Ravi Patodia, Member of the Committee of Administration (COA), Carpet Export Promotion Council (CEPC), delivered a special address in which he warmly welcomed all delegates on behalf of CEPC. He thanked ITTA and IICT for organizing the conclave on carpets and for inviting professionals from the carpet industry, faculty members, and students. In his address, he spoke about the evolution of the Indian carpet sector and emphasized the need to diversify beyond traditional handmade carpets such as those from Bhadohi and Mirzapur towards machine-made carpets. This, he noted, is essential to meet rising global demand and fulfil technical performance expectations. Shri Patodia stressed the importance of adopting modern technologies in carpet manufacturing to foster innovation, enhance global competitiveness, and broaden the application of carpets within the larger technical textiles domain. He also appealed to the Ministry of Textiles (MoT) to extend further support for the growth and development of the carpet industry in Bhadohi.



Shri. Ravi Patodia, COA, CEPC

Shri. Ravi Patodia, COA, CEPC



Prof. Rajeev Varshney - Director, IICT

Prof. Rajeev Varshney, Director of the Indian Institute of Carpet Technology (IICT), expressed sincere gratitude to the Ministry of Textiles and the National Technical Textiles Mission (NTTM) for their continued support in promoting innovation and development in the carpet sector. He also warmly acknowledged the presence and active participation of dignitaries, officials from central ministries, industry leaders, academic experts, and representatives from various institutions and organizations, whose contributions greatly enriched the conclave.

More than 70 participants attended the conclave, including officials and representatives from Central Ministries, Export Promotion Councils, academic and research institutions, leading manufacturers of carpets and machinery, suppliers, traders, exporters, researchers, and professionals from across the carpet industry.

TECHNICAL SESSION 1

The First Technical Session on the 'Raw Materials Used in Carpet Manufacturing - Regular & Functional Carpets' was moderated by Shri. Avinash Misar, Chairman, ITTA. The following presentations were made during this session.



View of Audience

This session includes the presentations from Shri. Sumit Banik, Senior Manager, Kaneka India Pvt. Ltd., and Prof. S. K. Pal, Associate Professor & Dr. Moumita Bera, Assistant Professor, IICT.

Shri Sumit Banik delivered a presentation on "Modacrylic Fibres & Yarns Used in Home Textile Applications". He introduced Protex®, a high-performance, inherently flame-retardant modacrylic fiber developed by Kaneka Corporation, Japan, specifically designed for protective clothing, home textiles, and industrial applications. Protex® provides permanent flame resistance by disrupting the fire triangle through oxygen scavenging and char formation. Key technical features include: Inherent flame-retardant performance (non-melting, self-extinguishing), High Limiting Oxygen Index (LOI up to 40), Low smoke density (ASTM E662 compliant), Antimony-free variants (Protex-F, Protex-SI), Excellent compatibility with cotton, PET, aramids, etc. and Availability in dope-dyed form, reducing energy and water consumption. Protex® complies with key Indian QCO standards (IS 15741, IS 15748, etc.) and international fire safety norms (NFPA 2112, UL 94, BS 5852). Its wide range of applications includes flame-retardant workwear, curtains, upholstery, filtration fabrics, and carpets. With superior comfort, durability, and regulatory compliance, Protex® offers a sustainable and cost-effective solution for multi-hazard protection in the growing technical textile sector.



Presenting Memento to Shri. Sumit Banik - Senior Manager, Kaneka India Pvt Ltd



Presenting Memento to Ms. Moumita Bera- Assistant Professor, IICT

Prof. S. K. Pal and Dr. Moumita Bera presented on the topic "Current Manufacturing Techniques in Carpet Production: Weaving and Tufting" at the National Conclave on Hometech. The presentation highlighted the evolution of the Indian carpet sector and emphasized the need to diversify from traditional handmade carpets - such as those from Bhadohi, Kashmir, and Mirzapur - into machine-made carpets to cater to rising global demand and meet technical performance requirements. With the global carpet and rug market projected to reach USD 88.4 billion by 2030, innovation in manufacturing is crucial. Key technical aspects covered in the presentation included:

Handmade Carpet Techniques: Detailed insights into

knotting styles (Persian, Turkish, Tibetan), handloom methods like V-tuft and W-tuft, and manual tufting using mechanical and electronic guns, **Machine-Made Innovations:** Introduction to robotic tufting systems (HITEX, eTuft), continuous tufting frames, and advanced weaving technologies such as Axminster and Van de Wiele looms that enhance production precision and efficiency, **Advanced Printing & Finishing:** Techniques like Chromojet digital printing (up to 12 m/min), screen printing, embossing, and tip-shearing were discussed to improve carpet aesthetics and design versatility, **Material Insights:** Use of high-denier BCF yarns (2000–2600D) in materials such as polypropylene, nylon, polyester, and wool to improve durability, softness, stain resistance, and resilience and **Emerging Segments:** Focus on nonwoven (needle-punched, spun-bonded) and knitted carpets as growing areas for functional, aesthetic, and technical textile applications. The session concluded by stressing the importance of adopting modern technologies in carpet manufacturing to drive innovation, improve global competitiveness, and expand the role of carpets in the broader technical textiles domain.

TECHNICAL SESSION 2

The Second Technical Session on the 'Modern Manufacturing Techniques in Carpet Production' was moderated by Prof. S. K. Pal, Associate Professor, IICT and two papers were presented.

This session includes the presentations from Shri. Yogesh Garg, Managing Director, Dilo India Pvt. Ltd. and Shri. Amar Surve, Deputy General Manager, A.T.E. Enterprises Pvt. Ltd.

"Emerging Technologies in Needle-Punch Carpet Manufacturing" was presented by Shri. Yogesh Garg. He informed the audience that Dilo caters to the nonwoven industry, which includes diverse sectors such as geotextiles, floor coverings (carpets), automotive nonwovens, artificial leather, insulation, hygiene, filtration, and others. Focusing on carpets and floor coverings, he explained that Dilo's machinery range is comprehensive and can be categorized as follows: Fibre Opening and Blending: Fibres received in bale form are opened and blended to achieve a uniform colour or mix. This process is often customized based on customer requirements regarding production capacity, types of fibres used, and the number of fibres to be blended, Carding Machine: The blended fibres are carded to form a uniform web, aligning the fibres to facilitate the formation of nonwovens at the required production capacity, Cross Lapper: The carded web is cross-lapped to achieve the desired width, thickness, and area weight, preparing it for the needling process, Needle Punching: The cross-lapped web undergoes precision needle punching to form a nonwoven fabric with specific width, thickness, and weight, Structuring Needling: In the final structuring stage, the needle-punched nonwoven fabric is treated on specialized machines such as Di-Loop, Di-Lour, or both, to create distinct textures, shapes, and surface patterns on the carpet and Cutting and Winding: Based on customer requirements, the finished fabric is cut and wound to make it ready for the next stages such as coating or other finishing processes.



Presenting Memento to Shri Yogesh Garg - Managing Director - Dilo India Pvt Ltd.

Shri. Amar Surve presented the topic "Emerging Technologies in Carpet Printing", showcasing cutting-edge innovations in carpet manufacturing with a focus on automation, material efficiency, and digital transformation. A.T.E.'s integrated solutions cover the entire carpet value chain from BCF yarn extrusion, yarn twisting and heat setting, to robotic tufting, digital printing, and advanced finishing processes. Key technologies highlighted included:



Presenting Memento to Shri Amar Surve - Deputy General Manager - A.T.E. Enterprises Pvt Ltd.

(Germany): Advanced hand-tuft robots ideal for custom designs, enabling pile heights from 4-75 mm with rapid color and loop-cut transitions, ChromoJET & Colaris Digital Printing (J. Zimmer, Austria): High-speed, high-resolution printing (up to 400 dpi) with deep color penetration on carpets, using either spot or process color modes suitable for both short and high pile structures, Needle-Punching Solutions (Truetzschler, Germany & Texnology, Italy): Complete nonwoven flooring lines (T-Suprema) integrating carding, cross-lapping, punching, and winding & Sustainability Additions: Smart solutions for cooling (HMX) and wastewater recycling (ATE Envirotech), promoting energy efficiency and zero liquid discharge. The

presentation underscored the importance of integrating automation, digitalization, and sustainability to drive the next generation of carpet manufacturing and meet evolving global standards.

TECHNICAL SESSION 3

The Third Technical Session on the 'Innovative Chemical Solutions for Enhancing Carpet Performance' was moderated by Prof. S. K. Pal, Associate Professor, IICT. The following presentations were made during this session.

This session has presentations by Shri. Pradeep Agarwal, Zonal Manager, Pulcra Chemicals India Pvt. Ltd. and Dr. R. K. Malik, Associate Professor & Dr. S. K. Gupta, Assistant Professor, IICT.

Shri Pradeep Agrawal presented on "Advanced Dyeing Techniques and Chemical Finishing for Carpets", showcasing innovative chemical solutions aimed at enhancing sustainability, functionality, and process efficiency in carpet manufacturing. Key technical highlights included: Low Liquor Ratio & Low TDS Processes: Designed for efficient pre-treatment and dyeing under hard water conditions - reducing water, energy, and chemical usage, Advanced Dyeing Additives: Breviol NEXT enables even dye penetration for PET yarns at conventional temperatures by enhancing dye solubility and levelling, Flame Retardant & Water Repellent Finishes: Non-halogenated and PFAS-free solutions for polyester carpets offering durable and tunable performance without altering fabric aesthetics, Antimicrobial & Anti-Allergen Technologies: Metal-free, biobased treatments like Purissimo NTL to control allergens and microbial growth, Stain Release & Anti-Skid Finishes: Designed to enhance carpet safety and maintain surface cleanliness in home and commercial environments and Digital Printing Solutions: Stabiprint® series for pigment and reactive printing on cellulosic and synthetic substrates - ideal for short runs and quick turnarounds. The presentation reinforced the critical role of smart, sustainable chemistry in advancing the performance and compliance standards of the modern carpet industry.



Presenting Memento to Mr. Pradeep Agarwal - Zonal Manager- Pulcra Chemicals India Pvt Ltd



Presenting Memento to Mr. Ratikant Mallik - Associate Professor - IICT

The presentation on "Innovative Chemical Solutions for Backing and Finishing to Enhance the Quality & Performance of Carpets and Other Home Textiles" was delivered by Dr. R. K. Malik and Dr. S. K. Gupta. They emphasized the importance of standardized testing and performance evaluation of carpets to meet both national and international quality requirements. The session highlighted the critical role of IICT's NABL-accredited laboratories (ISO 17025:2017) in supporting the Indian carpet industry through comprehensive testing and technical services. Key technical components included: Mechanical Testing: Evaluation of durability, abrasion resistance, thickness loss, and dimensional stability in accordance with ISO

and BIS standards, Chemical Testing: Assessment of parameters such as colorfastness, pH levels, formaldehyde content, and flame retardancy as per global buyer specifications, Eco-Testing: Analysis of eco-compliance metrics including banned azo dyes, heavy metal content, and VOC emissions in line with REACH and other international regulations. The presentation underscored how IICT's infrastructure and technical

expertise enable manufacturers to ensure product quality, meet compliance standards, and enhance the global competitiveness of Indian carpets.

Finally, the conference was concluded by giving Vote of Thanks by Shri. Anil Kumar Vasupillai, Additional Executive Director, ITTA. He specially thanked all the eminent panelists and speakers pointing out the important needs and issues of Carpet Industry and for making excellent presentations.

INTERACTIVE SESSION

A Special Interactive Session on Future Growth and Opportunities in Carpet Industry, was organised between the senior Govt. officials and the representatives from Industry, the Carpet Export Promotion Council (CEPC), Indian Institute of Carpet Technology (IICT), who actively participated the discussion and presented their issues. The Interactive Session was moderated by Shri. Ajay Gupta, Joint Secretary, MoT. Experts in the session were Shri. Bal Krishna Tripathi (IAS), Commissioner, Vindhyaachal Mandal, UP, Shri. Avinash Misar, Chairman, ITTA, Shri. Ravi Patodia, Member of the Committee of Administration (COA), Carpet Export Promotion Council (CEPC) and Prof. Rajeev Varshney, Director, Indian Institute of Carpet Technology (IICT). In this special interactive session, Shri. Ajay Gupta actively discussed and answered the questions raised by the industry representatives and other delegates.

- a. Active Industry Participation: Emphasized the need for every carpet manufacturer to contribute actively towards the growth and recognition of the carpet industry.
- b. Smart Carpets: Highlighted the development of smart handloom carpets, such as those capable of monitoring heart rate and calorie burn, with market prices around ₹15,000.
- c. Innovation & Modernization: Stressed the importance of evolving with innovative carpet products to meet modern needs and changing lifestyles.
- d. Functional Applications: Cited the example of silk being used as an insulator in Russia, encouraging Indian manufacturers to explore similar innovative and functional applications for carpets, such as insulation and acoustic control.
- e. Industry-Academia Collaboration: Urged Centres of Excellence (CoEs) and academic institutions to collaborate closely with industry players to drive innovation.
- f. Support for Startups: Called for startups to venture into the development of multifunctional carpets with added features like insulation and acoustic regulation.
- g. Material Innovation: Pointed out the gradual shift from traditional materials like cotton to newer options such as viscose and jute, reflecting material innovation in the sector.
- h. Technology Integration: Stressed the need to increase the use of technology and software in modern carpet manufacturing processes.
- i. Diversification: Highlighted the expansion of applications beyond conventional carpets and rugs to include products such as wall coverings and other decorative solutions.
- j. International players actively participate in trade fairs and exhibitions to showcase innovations and reflect evolving trends and technologies—an area where India needs greater representation.



Vote of Thanks by Mr. Anil Vasupillai - Additional Executive Director - ITTA

INTERACTION WITH PARTICIPANTS



HIGHLIGHTS OF THE EXHIBITION

The exhibition was an integral part of the Conclave, aimed at showcasing the latest innovations in raw materials, chemicals, technologies, and product developments in the carpet industry. It featured participation from leading manufacturers, chemical and machinery suppliers, industry associations, and academic institutes. This platform provided a unique opportunity for exhibitors both established players and new entrants to display their products and directly interact with potential buyers. It also added significant value for the delegates and invitees by facilitating networking opportunities with officials from user ministries and stakeholders from the carpet industry. A total of six exhibitors participated in the exhibition, presenting their innovations in carpet products.

List of Exhibitors:

| COMPANY NAME | |
|---|---|
| A.T.E. ENTREPRISES PVT. LTD. | FARAZ CREATIONS |
| PULCRA CHEMICALS INDIA PVT. LTD. | ICAR-NATIONAL INSTITUTE OF NATURAL FIBRE ENGINEERING AND TECHNOLOGY |
| INDIAN TECHNICAL TEXTILE ASSOCIATION (ITTA) | INDIAN INSTITUTE OF CARPET TECHNOLOGY (IITC) |

GLIMPSES OF EXHIBITION



National Institute of Natural Fibre Engineering & Technology



Faraz Creation



A.T.E.



Indian Institution of Carpet Technology



The Indian Technical Textile Association (ITTA)



Pulcra Chemicals India Pvt. Ltd.

MEMBERS' FORUM

DILO INDIA PVT. LTD.

New Dilo Group Line Installed at ALMA to Enhance Production Efficiency

ALMA in Florence, Italy is a specialist in the floor covering sector providing high quality products in a vast range of styles, colours and aesthetics. For its own fibre supply Messrs. ALMA keep an inhouse production of PP fibre in order to accommodate their need of excellent raw materials and broad production needs.

Their production is mostly dedicated to four different sectors in the market of floor coverings: exhibition carpet, artificial grass, automotive interiors and car mats and domestic sector (DIY). Quality is a decisive factor to respond to the markets'



Consisting of a DiloTemafa fibre blending and filtration system, DiloSpinnbau card feeding, state-of-the-art carding, DiloMachines high speed crosslapping, and needling 6 m wide, including inline DI-LOOP for high-speed structuring. Along with this high-performance preparation, web forming and needling line, modern components of process controls and the Industry 4.0 DI-Connect system according to high level standards have been integrated.



ITTA SIGNED MOU WITH ASSOCIATION OF ITALIAN TEXTILE MACHINERY MANUFACTURERS (ACIMIT)

Association of Italian Textile Machinery Manufacturers (ACIMIT) is a private national body that groups most of the Italian textile machinery companies. The main purpose consists in promoting the Italian textile machinery sector and in supporting its activity, mainly organizing exhibitions, technical seminars, missions in Italy and abroad, etc., mostly in collaboration with Italian Trade Agency.

The objective of MOU is:

1. To jointly organize Webinars & Physical events/ exhibitions to promote the technical textiles machinery manufactured in Italy to Indian Market and help producing quality technical textile products through their technologies.
2. To find suitable partners for Italian companies depending on interest of specific member company of ACIMIT to have Joint Ventures to manufacture technical textiles machinery in India, since there are not many such manufacturers in India.

ITTA ACTIVITIES

1. ENGAGEMENTS WITH CENTRAL & STATE GOVERNMENTS

1.1. Meeting of Sub-Committee on Technical Textiles Machinery

The 1st meeting of the sub-committee on Technical Textiles Machinery for suggestion and way forward was held on 26.06.2025 through video conferencing under the Chairmanship of Dr. Nagahnumaiah, Director, Central Manufacturing Technology Institute (CMTI). Dr. Anup Rakshit, ED, ITTA, as a member of sub-committee, attended the meeting.

Key discussion points are given below -

1. It was suggested that expert members from IIT Delhi & DKTE Ichalkaranji to be included in panel to enhance domain expertise, given their strong academic & research backgrounds in technical textiles.

2. ITTA emphasized that there are number of textile machineries/technologies produced in India, are used for producing technical textiles, e.g., Spinning preparatory (mixing, blow room, carding, etc.) machines are used in non-woven needle punch, spunbond processes, looms, knitting machines, processing machines, etc. But for critical technical textile products we need to modify some of these machines to produce heavy weight canvases/trapline, geogrids and of the garment making machines like ultrasonic bonding, automatic cutting & inspection machines. R&D projects can focus on these areas. Other Low-hanging opportunities were highlighted in weaving

(including preparatory and fabric manufacturing machinery), warp knitting (widely used in Agrotextiles and Automotive textiles), and coating machines (which can be economically modified for technical applications). It was pointed out that small manufacturers could make substantial improvements to existing machines at lower investment levels.

3. Dr. Nagahnumaiah requested ITTA to compile inputs from various segments and cluster them for identifying national industry leaders and become the 'voice of the industry'. Mapping demand against current capabilities would aid in preparing a structured report highlighting short, medium, and long-term development needs. He also suggested identifying technology gaps that can be addressed through industry academia collaboration. Incentives for successful indigenous machinery development was also suggested. In this regard, ITTA submitted the Feedback/ Inputs from ITTA Members on Concept Note - Machinery Development in Technical Textiles to NTTM.

4. ITTA proposed organizing a webinar bringing together machinery manufacturers, product developers, and academia to foster collaboration and generate actionable insights.

1.2. Meeting of Consultative Committee on Technical Textiles under NTTM

The 1st meeting of the Consultative Committee on Technical Textiles for suggestion and way forward under NTTM was held on 13.06.2025 through video conferencing under the Chairmanship of Shri. Ajay Gupta, Joint Secretary and Mission Coordinator, NTTM, MoT. Dr. Anup Rakshit, ED, ITTA, as a member of committee, attended the meeting.

Following Key points were discussed and decided in the meeting --

1. Need to broaden industry participation by integrating existing textile manufacturers in technical textiles sector. It was proposed to facilitate a transition pathway for traditional textile players - leveraging their existing infrastructure and industry experience - to venture into technical textiles. This approach would lower entry barriers and expand the ecosystem by building on familiar capabilities.

2. Use of digital tools, simulation models and AI-based systems that can accurately predict product performance and outcomes.

3. ITTA raised a concern regarding the lack of meaningful engagement of industry partners. He noted that BTRA is facing significant challenges in scaling up the precursor burning process for commercial viability. He urged that such critical R&D bottlenecks be identified and supported in the next phase of the mission.

4. Another important point was the promotion of indigenous machinery development. ITTA has several members who manufacture technical textile machinery or can adapt conventional textile machines for this purpose with minimal modifications. He suggested that targeted support in this area, requiring modest investment, could unlock a range of new projects and strengthen domestic capabilities in capital goods.

ITTA'S ENGAGEMENT WITH BIS - DEVELOPMENT OF INDIAN STANDARDS ON TECHNICAL TEXTILES

1. BIS SECTIONAL COMMITTEE MEETINGS -

1.1 Textiles Protective Clothing Sectional Committee, TXD 32

The 22nd Meeting of Textiles Protective Clothing Sectional Committee, TXD 32 was held through video conferencing on 30.06.2025. The meeting was attended by Dr. Anup Rakshit, Executive Director from ITTA Secretariat and many ITTA Members from Aeronav Industrial Safety Appliances, Arvind Ltd., E.I. Dupont India Pvt. Ltd., Kusumgar Corporates Pvt. Ltd., Star Safety Hub, and Welspun India

Following points were discussed & decided in the meeting--

1.2 Geosynthetics Sectional Committee, TXD 30

The 33rd Meeting of Geosynthetics Sectional Committee, TXD 30 was held through video conferencing on 15.07.2025. The meeting was attended by Dr. Anup Rakshit, Executive Director and Ms. Ruchita Gupta, Associate Director - Technical from ITTA Secretariat and ITTA Members from Garware Technical Fibres Ltd., Geosynthetics Testing Services Pvt. Ltd., Maccaferri Environmental Solutions Pvt. Ltd., Reliance Industries Ltd., Strata Geosystems (India) Pvt. Ltd. And Techfab (India) Industries Ltd.

Highlights of the key points discussed & decided in the meeting -

1. BIS is set to launch a new Standards Portal integrated with Online Standards Development (OSD) platform and to prepare for this, NITS, BIS is conducting sectional committee-wise workshops

1.3 Technical Textiles for Sportech Applications Sectional Committee, TXD 37

The 11th Meeting of Technical Textiles for Sportech Applications Sectional Committee, TXD 37 was held through video conferencing on 25.07.2025. The meeting was attended by Dr. Anup Rakshit, Executive Director from ITTA Secretariat and ITTA Members from Garware Technical Fibres Ltd. and Kusumgar Corporates Pvt. Ltd.

1. IS Standards for Publication - Following Draft of Indian Standards were finalized for publication - IS 15742: 2007 - Requirements for Clothing Made of Limited Flame Spread Materials for Protection against Heat and Flame (first revision) and IS 15768: 2008 - Resistance to Ignition of Fire-Resistant Upholstery Fabrics (first revision).

2. It was decided that working group will prepare the revised draft of IS 15741: Resistance to ignition of curtains and drapes & IS 17051: Bullet Resistant Jackets.

on "Standardization Reforms and Online Standards Development".

2. IS Standards for Publication - Following Indian Standards & amendment were finalized for publication - IS 17483 (Part 2): 2020 Geosynthetics - Geocells - Specification (Part 2) Slope Erosion Protection Application, IS 16362: 2024 'Geosynthetics - Geotextiles for Subsurface Drainage, Subgrade Separation, Subgrade Stabilization, Filtration and Erosion Control (In Hard Armor Systems) Applications and IS 17880 : 2017 'Geosynthetics - Synthetic Polymer Rope Gabions for Coastal and Waterways Protection.

3. Wide Circulation - Following Draft standard will be issued under wide circulation - Geosynthetics - PVC geomembranes for lining.

Following points were discussed & decided in the meeting--

1. IS Standards for Publication - Following Indian Standard was finalized for publication - Sports Ropes [TXD/37/27248].

PLI Scheme - A Game Changer for India's Textile Sector



The Production Linked Incentive (PLI) Scheme for Textiles, launched in 2021, has emerged as a transformative initiative for India's textile industry. Operational from 24th September 2021 to 31st March 2030, the scheme offers financial incentives for a period of five years to promote manufacturing in Manmade Fibre (MMF) apparel, fabrics, and technical textiles, thereby enabling scale, competitiveness, and global integration.

The Ministry of Textiles has taken several proactive measures to ensure the success of the Scheme. It has expanded the coverage of eligible products by notifying additional HS Codes for Technical Textiles. In a significant move towards early support, the Ministry approved amendments on 20th February 2025, facilitating early disbursements amounting to ₹54 crore.

"The PLI Scheme is truly a game changer for our textile industry," said Mr. Gautam Kalra, Madura Industrial Textiles Pvt. Ltd., one of the Scheme's beneficiaries. "It's not just about financial incentives - the Scheme has facilitated technology transfer and innovation in India's MMF and technical textiles sector." Under the Scheme, the minimum investment threshold is ₹100 crore (Part 1) and ₹300 crore (Part 2), with incentive disbursements linked to achieving an incremental turnover of 25% over the previous year.

Mr. Nikhil Datye, CFO, Nobel Hygiene Private Limited., another beneficiary, remarked, "The support under the PLI Scheme has enabled us to accelerate investments in automation, product development, capacity expansion, and employment

generation." Incentive payouts will cover five financial years (FY 2025-26 to FY 2029-30), based on performance in the FY 2024-25 to FY 2028-29 period, with a total budgetary outlay of ₹10,683 crore.

Till date, the Scheme has catalyzed: Investments of ₹7,343 crore, Turnover of ₹4,648 crore and Exports of ₹538 crore. Technical textiles have emerged as a major focus area under the Scheme, accounting for 56.75% of the 74 selected applications, spanning 42 companies. By boosting production of high-tech products like auto safety equipment, glass fibre, and carbon fibre, the Scheme is not only driving foreign investment but also enhancing India's positioning as a competitive global textile hub. These materials are vital to high-growth industries, enabling India's textile sector to meet international standards and challenge established exporters like China, Vietnam, and Bangladesh.

[Source: <https://firstindia.co.in/news/press-releases/pli-scheme-a-game-changer-for-indias-textile-sector>]



Mega Boost for Tamil Nadu: Rs 1,900 Crore Cleared for Virudhunagar PM MITRA Textile Park



In a major push to strengthen India's textile manufacturing ecosystem, the Central government has approved ₹1,900 crore for the development of the PM MITRA Park in Virudhunagar, Tamil Nadu. This 1,052 acres facility is envisioned as a cutting-edge hub for technical textiles and integrated apparel production, promising to significantly elevate Tamil Nadu's role in the global textile value chain.

The upcoming PM MITRA Park is designed to be a comprehensive industrial zone, offering end-to-end facilities for fibre-to-fashion operations. With a strong focus on technical textiles and sustainable manufacturing, the park will offer advanced infrastructure to attract global and domestic textile players.

The project is projected to draw in private

investments of around ₹10,000 crore and create employment opportunities for over one lakh people by 2026. This development is expected to give a significant boost to the regional economy of southern Tamil Nadu, particularly in Virudhunagar and surrounding districts.

The park will feature a 15 million litres per day Zero Liquid Discharge Common Effluent Treatment Plant to ensure environmental sustainability, along with a sewage treatment plant with a capacity of 5 MLD. Worker accommodation for 10,000 people and over 1.3 million square feet of ready-to-use, plug-and-play industrial space are also part of the blueprint.

[Source: <https://indianmasterminds.com/news/mega-boost-for-tamil-nadu-rs1900-crore-cleared-for-virudhunagar-pm-mitra-textile-park-details-inside-126875/>]

Raksha Rajya Mantri Commends DMSRDE's Indigenous Defence Innovations in Kanpur

Raksha Rajya Mantri Shri Sanjay Seth, on June 29, 2025, visited Defence Materials and Stores Research & Development Establishment (DMSRDE), a Kanpur-based laboratory of DRDO. In his address to the DRDO fraternity, he applauded the successful use of indigenous technologies developed by DRDO during Operation Sindoora.

Raksha Rajya Mantri also appreciated the efforts of DMSRDE in the successful realisation of advanced defence systems and products especially the Bullet Proof Jacket (Level-6), Naphthal Fuel for BrahMos Missile, High Pressure Polymeric Membrane for Indian Coast Guard ships, Silicon Carbide Fibre, Activated Carbon Fabric-based Chemical, Biological,

Radiological, and Nuclear Suit and various stealth products. He also congratulated DMSRDE for carrying out the maximum number of transfers of technology in the last two years among all DRDO



labs and enhanced focus on developing synergy with industry & academia which will be helpful in realising Prime Minister Shri Narendra Modi's vision of Viksit Bharat by 2047.

Shri Sanjay Seth also visited the exhibition where the materials, technologies and products developed by DMSRDE in the area of ceramics & ceramics matrix composites, stealth & camouflage materials, nano-materials, coatings, polymers & rubbers, fuels & lubricants, technical textiles and personal protection systems were demonstrated. He was

received by DS & DG (Naval Systems & Materials) Dr RV Hara Prasad.

After the demonstration, Director DMSRDE gave a presentation highlighting the laboratory's vision, mission, charter, ongoing projects and technology focus areas. Raksha Rajya Mantri also paid homage to Dr APJ Abdul Kalam at his statue at the DMSRDE premises, which was followed by tree plantation.

[Source: <https://www.pib.gov.in/PressReleaseframePage.aspx?PRID=2140682>]

Union Minister of Textiles visited Japan to Boost Investments & Business Developments on Textiles in India

Union Minister of Textiles, Shri. Giriraj Singh commenced his official visit to Tokyo, Japan on 14th July 2025 by paying floral tribute at the statue of Mahatma Gandhi, highlighting the enduring relevance of Gandhiji's ideals of truth, non-violence, and compassion. Shri. Giriraj Singh visited the Embassy of India in Tokyo and chaired a briefing by Ambassador Shri. Sibi George on India-Japan relations and opportunities in the textile sector.

Following this, a strategic meeting was held with Mr. Tadashi Yanai, Chairman, President and CEO of Fast Retailing Co. Ltd., one of the world's leading apparel retail companies. The discussion focused on expanding Fast Retailing's sourcing, manufacturing, and retail operations in India.

Shri. Giriraj Singh also met the leadership team of Stylem Co. Ltd, leading textile trading and OEM Company, and invited them to scale up their engagement with India through PM MITRA Parks and other government initiatives.

In a key engagement, Shri. Giriraj Singh met with the Directors of Daiso Industries, who announced plans to open 200 stores and manufacture cotton products in India. The Minister encouraged them to leverage India's textile infrastructure and incentives.



The day concluded with Shri. Giriraj Singh chairing an interactive roundtable with CEOs of major Japanese textile and apparel companies, encouraging investments in technical textiles, fibre production, and textile machinery. Ambassador Shri. Sibi George delivered the inaugural remarks, and Shri. Rohit Kansal, Additional Secretary, Textiles, presented key government policies and emerging opportunities in the sector.

[Source: <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2144827>]



Allocation of Funds to PLI Scheme

National Mission on Technical Textiles was launched in 2020 with a financial outlay of Rs. 1,480 Crore with major focus on Research, Innovation and Development; Promotion and Market Development; Export Promotion; and Education, Training & Skill Development. Under NTTM, 168 R&D projects on technical textiles, 20 startups and 41 proposals for upgrading lab, equipment, and training of faculty in educational institutions have been approved.

The Production Linked Incentive (PLI) Scheme for Textiles was approved with an outlay of Rs. 10,683 crores in September, 2021, to promote production of MMF Apparel, MMF Fabrics and products of Technical Textiles in the country to enable textile sector to achieve size and scale and to become competitive. The scheme has two parts: Part-1 envisages a minimum investment of Rs. 300 crore & minimum turnovers of Rs. 600 crore per company; and Part-2 envisages a minimum investment of Rs. 100 crore & minimum turnovers of Rs. 200 crore per company. As per the scheme, incentive is provided to the companies on achieving the threshold investment and threshold turnover and thereafter incremental turnover. Under the scheme, incentive of Rs. 54.50 crore has been disbursed to two applicant companies which completed their threshold investment and turnover for FY 2024-25.

Under NTTM, research projects have been approved for the development of sustainable and recyclable

textile materials. In addition, initiatives are taken to engage stakeholders to support the Indian textile sector for sustainable, resource-efficient and environmentally responsible production system.

Govt. of India is actively promoting textile and garment exports through various schemes/initiatives such as Rebate of State and Central Taxes and Levies (RoSCTL) scheme which supports zero-rated exports for apparel, garments, and made-ups, while other textile products are covered under the Remissions of Duties and Taxes on Exported Products (RoDTEP) scheme. Assistance is also provided to Export Promotion Councils and trade bodies for participating in domestic and international trade events. The Ministry is also supporting BHARAT TEX, a global mega textile event, aimed at showcasing India's textile value chain and innovation. Additionally, India has signed 15 Free Trade Agreements (FTAs) and 6 Preferential Trade Agreements (PTAs) to enhance global market access by reducing trade barriers and boosting competitiveness.

The State/UT-wise data of export of Textile & Apparel including handicrafts during the last three years is enclosed below. The information was provided by THE MINISTER OF STATE FOR TEXTILES SHRI PABITRA MARGHERITA in a written reply to a question in Lok Sabha.

Value in USD Million

| State/UTs | FY: 2022-23 | FY: 2023-24 | FY: 2024-25 |
|-----------------------|-------------|-------------|-------------|
| ANDAMAN & NICOBAR | 0 | 0 | 0 |
| ANDHRA PRADESH | 438.2 | 481.2 | 520.7 |
| ARUNACHAL PRADESH | 0 | 0 | 0 |
| ASSAM | 4 | 2.3 | 2.1 |
| BIHAR | 27.6 | 32.3 | 44.4 |
| CHANDIGARH | 29.7 | 16.1 | 8.8 |
| CHATTISGARH | 2.9 | 4 | 5.6 |
| DADRA, NH, DAMAN, DIU | 770 | 695.3 | 739.8 |
| DELHI | 1,189.9 | 1,032 | 1,082.3 |
| GOA | 5.2 | 2.4 | 3.4 |
| GUJARAT | 5,043.4 | 5,749.1 | 5,928.7 |
| HARYANA | 3,720 | 3,641.9 | 4,112 |
| HIMACHAL PRADESH | 259.2 | 237.2 | 231.3 |
| JAMMU & KASHMIR | 101.1 | 88.7 | 92 |
| JHARKHAND | 14.9 | 25.2 | 35.7 |
| KARNATAKA | 2,910.3 | 2,738.4 | 2,831.2 |

| State/UTs | FY: 2022-23 | FY: 2023-24 | FY: 2024-25 |
|--------------------|-----------------|-----------------|-----------------|
| KERALA | 351.4 | 371.8 | 434.7 |
| LADAKH | 0 | 0 | 0.1 |
| LAKSHADWEEP | 0 | 0 | 0 |
| MADHYA PRADESH | 1,346.5 | 1,390.2 | 1,388.3 |
| MAHARASHTRA | 3,999.5 | 4,227.3 | 3,971.3 |
| MANIPUR | 0 | 0 | 0 |
| MEGHALAYA | 0 | 0 | 0.1 |
| MIZORAM | 0 | 0 | 0 |
| NAGALAND | 0.2 | 0.1 | 0.1 |
| ODISHA | 66 | 85.5 | 89 |
| PUDUCHERRY | 15.6 | 13 | 12.8 |
| PUNJAB | 1,502.2 | 1,500.4 | 1,397.2 |
| RAJASTHAN | 1,582.1 | 1,624.3 | 1,720 |
| SIKKIM | 0 | 0 | 0 |
| TAMIL NADU | 8,008.9 | 7172 | 8,021.7 |
| TELANGANA | 135.6 | 166.8 | 148.8 |
| TRIPURA | 0 | 0 | 0 |
| UNSPECIFIED | 222.1 | 9.5 | 0.7 |
| UTTAR PRADESH | 3,686.6 | 3,438.2 | 3,753.5 |
| UTTARAKHAND | 45.6 | 41.6 | 41.3 |
| WEST BENGAL | 1,207.4 | 1,087.1 | 1,136.1 |
| Grand Total | 36,686.1 | 35,873.9 | 37,753.7 |

[Source: <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2152545>]

Growth of Textile Industry in 2025

The overall exports of Textiles & Apparel Industry (including Handicrafts), achieved a growth of 5% during 2024-25 (USD 37,754 Mn) as compared to preceding year 2023-24 (USD 35,874 Mn.).

With a view to enhance investments, generating employment opportunities and boosting exports in the textile sector, the Government implemented the Scheme for Integrated Textile Park (SITP) to provide support for setting up textile parks with world-class, state-of-the-art infrastructure in textile hubs across the country including in the state of West Bengal. The SITP is now subsumed under the umbrella Scheme of Textile Cluster Development Scheme (TCDS) for operation of ongoing projects only. Two (2) textile parks were sanctioned for the state of West Bengal and a total Rs.56.85 crore has been released by M/o Textiles under SITP.

In addition, the Government has finalized setting up of PM Mega Integrated Textile Region and Apparel (PM-MITRA) Parks at 7 sites viz. Tamil Nadu (Virudhnagar), Telangana (Warangal), Gujarat (Navsari), Karnataka (Kalaburagi), Madhya Pradesh (Dhar), Uttar Pradesh (Lucknow) and Maharashtra (Amravati) with an outlay of Rs. 4,445 cr. for a period of seven years up to 2027-28. This information was provided by THE MINISTER OF STATE FOR TEXTILES SHRI SHRI PABITRA MARGHERITA in a written reply to a question in Rajya Sabha.

[Source: <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2151226>]

CHEMICAL MANUFACTURING

High-Performance Marine Coatings for Sail Cloth and Outdoor Textiles



Switzerland based Printcolor, in partnership with exclusive North American distributor Deco Technology Group, has introduced a new line of high-performance marine-grade coatings which are tailored for the demanding world of competitive sailing and outdoor textile applications. Their specialty ink systems are engineered to deliver performance on high-tension, weather-exposed fabrics such as carbon fiber, 3Di™, Dacron®, Vectran®, and PET-based sailcloths. Built to endure extreme marine environments, the coatings are gaining traction among sailmakers, regatta programs, and marine branding professionals. They are also engineered coatings designed to flex, grip, and endure at sea.

They have introduced two specialized coating systems designed to meet the rigorous demands of the marine textiles and composites sectors. Printcolor Series 482 is a water-based coating ideal for polyester marine fabrics, delivering vivid color brilliance, strong fabric adhesion, and a low film weight. Printcolor Series 660 is a solvent-based, ultra-flexible ink formulated for stretchable sail

materials and laminated composites.

Both series are available in standard shades, PANTONE®-matched custom colors, or as Mixing System (MS) formats for on-site color formulation—enhancing production efficiency and minimizing waste. These coatings are suited for a wide range of applications, including custom logos and sail numbers for racing yachts and multihulls, branding for regattas and team sails, durable prints for marine canopies and awnings, and the treatment of technical composites like 3Di™ panels and carbon sailcloth. Industry professionals choose Printcolor for its superior adhesion across varied marine textiles, exceptional UV and weather resistance, lightweight coatings that preserve sail performance, and environmentally responsible, REACH-compliant formulations.

[Source: <https://www.latitude38.com/business-stories/printcolor-launches-high-performance-marine-coatings-for-sail-cloth-and-outdoor-textiles/>]



ITTA SIGNED MOU WITH SAFETY APPLIANCES MANUFACTURERS ASSOCIATION (SAMA)

Safety Appliances Manufacturers Association (SAMA) is an Association of Occupational Safety Appliances & Services – Providers, Manufacturers, Distributors & Dealers. Enhancing safety awareness and guiding the end-user for optimum usage of Safety Appliances & services, technologies, and equipment. Organizes events & campaigns for the members that boost workplace safety awareness across industries. The objective of MOU is: -

1. To promote Technical Textiles in India and abroad.
2. It will create a common platform to share knowledge and help each other to resolve various industry issues.



New Woven Composite Material for high-performance outdoor gear



Dyneema is the world's strongest fibre and a premium brand of ultra-high-molecular-weight polyethylene (UHMWPE). After two years of extensive R&D and testing, Dyneema says that it has now improved the performance attributes of the world's strongest fibre by doubling down on its core durability, strength, abrasion resistance and dimensional stability with the launch of Dyneema Woven Composites.

These composites are based on a Dyneema core, created by layering and bonding biaxial Dyneema fibres at 0 and 90-degree orientation, preventing the individual fibres from shifting and ensuring long-lasting shape retention. More Dyneema fibres are then used in a lightweight woven fabric which is bonded to the core. This dual-layer composite structure unlocks multiple performance benefits. Primarily, the woven Dyneema face fabric enables exceedingly high strength, abrasion resistance and durability combined with the dimensional stability, structural integrity and lightweight waterproof

properties of the core. The result is a highly durable composite, even under significant load conditions and after prolonged use.

By harnessing the full potential of Dyneema® fiber with precision-layered construction, we've created a fabric that doesn't just resist wear - it redefines strength and stability in high-performance applications. Dyneema has partnered with Hyperlite Mountain Gear based in Biddeford, Maine, to bring this next-generation material to market, setting a new benchmark for high-performance outdoor gear. Engineered for the most demanding conditions, Dyneema® Woven Composite delivers up to 10x more abrasion resistance, 5x better tear resistance and up to 34% weight savings compared to the existing Dyneema® high-performance fabric composite portfolio.

[Source: <https://www.dyneema.com/design-with-dyneema/dyneema-woven-composites>]

Advanced technology for 3D composite parts

Unwind3D, a company located in Italy, has created its own moulding cell technology using tailored fibre placement (TFP). This new system allows for more precise shaping of layered fabric into three-dimensional composite parts. This new advancement is an important move toward making TFP more versatile. It introduces a high-performance moulding setup that works well with both thermoplastic and thermoset materials.

The custom-designed moulding system is made to manage the difficulties of forming thermoplastic composites, turning flat TFP shapes into strong 3D parts. In contrast to older methods, TFP thermoplastics often shrink when heated, which causes issues with pressure control, even heating, and tool setup.

Unwind3D has successfully solved these problems and is now making medium-sized batches of

thermoplastic parts that are both strong and accurate in shape. Their moulding cells have proven their reliability, operating for nine hours daily over a ten-month period in a customer's production line. These fully automatic production systems cut down on manual work and ensure consistent results.

Smart control of pressure and energy helps lower running costs while keeping performance high.

[Source : <https://www.yarnsandfibers.com/news/textile-news/unwind3d-unveils-advanced-technology-for-3d-composite-parts/>]

Versatile new thermoplastic glass fibre tapes

AGY, a leading US manufacturer of high-performance glass fibre reinforcements based in Aiken, South Carolina, has teamed with Weselberg, Germany-headquartered A+ Composites, a custom producer of unidirectional thermoplastic tapes, to commercially launch a new class of ultra-lightweight, high-performance thermoplastic tapes used for both wrapped and layered composite applications.

The collaboration showcases AGY's newly developed lightweight single-end S2 Glass roving, which is integrated into unidirectional tapes featuring LM PAEK and PEI resin systems. The resulting tapes deliver exceptional strength, stiffness and impact resistance, optimised for aerospace, defence and high-performance industrial applications where structural performance and weight savings are critical.

Key benefits of the S2 Glass fibre unidirectional

thermoplastic tape line include superior mechanical performance and thermal and electrical resistance. Continuous fibre alignment ensures optimal load transfer in one direction and AGY's S2 Glass provides a measurable boost in strength, stiffness, impact resistance and fatigue life.

The combination of LM PAEK or PEI with AGY's S2 Glass offers low thermal and electrical conductivity, while enabling high-temperature performance, radar transparency and electrical insulation. LM PAEK and PEI outperform thermosets in toughness and offer resistance to chemicals, fuels, oils and corrosion – all while minimising moisture uptake.

The tapes can also be reheated and reshaped, making them ideal for sustainable manufacturing and repairable parts design and no curing is required, supporting rapid cycle times and compatibility with automated out-of-autoclave processes. The tapes are also thermoformable enabling complex geometries and integrate easily into automated systems and hybrid laminates with other fibre types.

[Source: https://www.innovationintextiles.com/composites/versatile-new-thermoplastic-glass-fibre-tapes/?utm_source=news_alerts&utm_medium=email&utm_campaign=news_alerts]



Geocell Technology to Tackle Plastic Waste in Road Construction



The Central Road Research Institute (CRRI), in collaboration with Bharat Petroleum Corporation Limited (BPCL), has developed a new road construction material called Geocells. These three-dimensional block-shaped sheets, made from end-of-life and mixed plastic waste, aim to offer a sustainable solution to India's growing plastic pollution problem while improving road infrastructure.

Geocells are made from processed waste plastic using mechanical recycling techniques. The resulting plastic sheets - 4 to 8 mm thick - form a strong mesh-like structure. When these cells

are filled with soil or construction debris, they form a stable base layer suitable for paving roads, especially in difficult terrains such as hilly or loose soil areas.

A joint patent has been filed by CSIR-CRRI and BPCL for the Geocell technology. Field trials, in collaboration with the Military Engineering Services, are planned to begin in August to test the solution in real-world road-building scenarios. In a successful pilot, a stretch near the elevated portion of the DND-Faridabad-KMP Expressway was constructed using Geocells. The 160-

meter section used approximately 20–25 tonnes of recycled plastic waste.

According to Ms. Ankita Behl, principal scientist at CSIR-CRRI, the recycled plastic used in Geocells is challenging to process due to its inconsistent quality. Despite this, the lab and field trials—including those done with TATA Projects—showed no cracks or deformation, indicating strong load-bearing capacity and shape retention.

CRRI states that this initiative represents India's first field trial using technical textiles from end-of-life plastic in road construction. It also aligns with national efforts to address the mounting issue of mixed and multilayered plastic waste, which is typically not recycled under current Indian Roads Congress (IRC) guidelines. By reusing hard-to-process waste plastic, Geocells present a dual benefit: enhancing road durability and tackling plastic waste. This approach could set new standards for sustainable infrastructure and circular economy practices in India's road development sector.

[Source: <https://en.channeliam.com/2025/07/14/geocells-recycled-plastic-roads/>]

MEDITECH

DRDO & AIIMS Bibinagar unveil India's first low-cost advanced Carbon Fibre Foot Prosthesis

First Make-in-India cost-effective advanced Carbon Fibre Foot Prosthesis, indigenously designed and developed by DRDO's Defence Research & Development Laboratory (DRDL) and AIIMS Bibinagar was unveiled at AIIMS Bibinagar, Telangana on July 14, 2025. AIIMS

Bibinagar - DRDL, DRDO Indigenously Developed Optimised Carbon Foot Prosthesis (ADIDOC), a major breakthrough under the Aatmanirbhar Bharat initiative, was launched by Distinguished Scientist & Director, DRDL Dr GA Srinivasa Murthy

and Executive Director, AIIMS Bibinagar Dr Ahanthem Santa Singh.

ADIDOC is biomechanically tested to loads up to 125 kgs with sufficient factor of safety. It has three variants to cater to patients of different weights. This foot is designed with the goal of offering a high-quality and affordable solution accessible to a larger population in need, while delivering performance at par with available international models.

It is expected to reduce the cost significantly to as

low as less than Rs 20,000 in production in comparison to the current imported similar products that cost around Rs two lakh. Hence, this innovation is expected to significantly improve accessibility to high-quality prosthetics for low-income group amputees in India, reduce dependency on imported technologies, and support broader social & economic inclusion for people with disabilities.

[Source: <https://www.pib.gov.in/PressReleaseIframePage.aspx?PRID=2144797>]

MOBILTECH

Flexi-Light PET: Sustainable sound insulation for vehicles



Polyurethane foam has traditionally been used to reduce noise, vibration and harshness (NVH) in vehicles, contributing to passenger comfort. At the Automotive Acoustics Conference in Constance, Germany, Autoneum presented a polyester felt-based sound insulation system that is lightweight, resilient and shapeable, thus combining best-in-class acoustic performance and precise contours with enhanced recyclability.

Flexi-Light PET is manufactured from a novel blend of polyester fibers that is primarily sourced from recycled PET. Through a state-of-the-art production process, Autoneum can

adjust the fibers' orientation to produce a proprietary felt with mechanical and acoustic properties comparable to polyurethane foam. The material is flexible and can be molded into 3D shapes, making it an ideal insulation material for interior components with complex contours, such

as carpets and inner dashes.

Composed entirely of PET - up to 90% of which is recycled content - Flexi-Light PET can be used as a decoupler in conjunction with other PET-based technologies within Autoneum's product portfolio to support full circularity, allowing for the reuse of production waste and end-of-life recycling of the product. Flexi-Light PET is the latest addition to Autoneum's Pure technologies, which are intended to offer an excellent environmental performance throughout the entire product life cycle. This innovation builds on the Flexi-Loft technology, which is made from a blend of recycled cotton and polyester fibers and was initially introduced by Autoneum in 2021.

[Source: <https://www.autoneum.com/2025/07/08/flexi-light-pet-outstanding-sustainable-sound-insulation-for-vehicles/>]

EXPORT-IMPORT TREND OF TECHNICAL TEXTILE PRODUCTS OF MAY 2025

The data on export and import of 247* technical textile products/items is published as an indicator of foreign trade performance of technical textile industry in India.

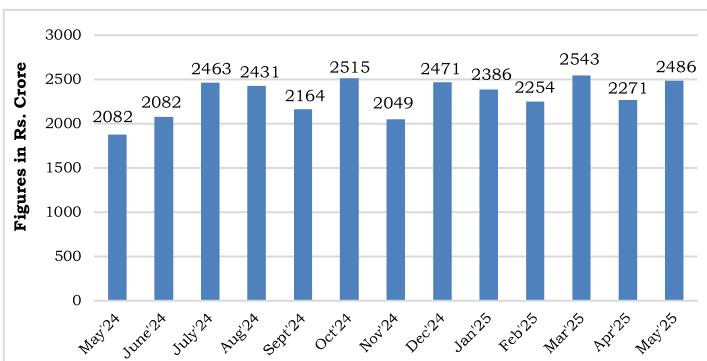
A. EXPORT PERFORMANCE

(Value in INR Cr.)

| Sr. No | Segments | May 2024 | May 2025 | % Growth | Apr-May 2024 | Apr-May 2025 | % Growth |
|--------------------|-------------------|-------------|-------------|------------|--------------|--------------|------------|
| 1 | Agrotech | 103 | 86 | -16% | 172 | 179 | 4% |
| 2 | Buildtech | 91 | 106 | 16% | 160 | 208 | 30% |
| 3 | Clohtech | 40 | 32 | -20% | 70 | 80 | 13% |
| 4 | Geotech | 219 | 226 | 3% | 412 | 432 | 5% |
| 5 | Hometech | 10 | 11 | 12% | 20 | 19 | -5% |
| 6 | Indutech | 237 | 251 | 6% | 462 | 476 | 3% |
| 7 | Meditech | 267 | 269 | 1% | 504 | 515 | 2% |
| 8 | Mobiltech | 303 | 278 | -8% | 557 | 523 | -6% |
| 9 | Packtech | 609 | 828 | 36% | 1186 | 1575 | 33% |
| 10 | Protech | 55 | 83 | 50% | 93 | 149 | 61% |
| 11 | Sportech | 115 | 126 | 9% | 212 | 235 | 11% |
| 12 | Nonwovens | 132 | 122 | -8% | 262 | 239 | -9% |
| 13 | Speciality Fibres | 30 | 46 | 55% | 55 | 83 | 51% |
| 14 | Composites | 24 | 23 | -4% | 45 | 43 | -4% |
| GRAND TOTAL | | 2235 | 2486 | 11% | 4210 | 4757 | 13% |

Data Source: ITTA Analysis on Ministry of Commerce and Industry (at 8 digit level of HSN Codes)

Figure 1 - Monthly Trend of Export Performance



The above figures indicate a noticeable dip in exports in November 2024, followed by a steady rise from December 2024, peaking in March 2025, and a slight upward trend starting again in May 2025.

Top Ten Exported Products in Month of May '25

| SR. NO. | HSN CODES | PRODUCT NAMES | VALUES (IN CR.) |
|---------|-----------|---|-----------------|
| 1 | 63053200 | Flexible Intermediate Bulk Containers (FIBC) | 774 |
| 2 | 59039090 | Other fabric plated, laminated, coated & impregnated with other Plastics | 164 |
| 3 | 84212300 | Oil or petrol-filters for internal combustion engines | 87 |
| 4 | 56074900 | Other cordage of Polyethylene/ Polypropylene | 83 |
| 5 | 87089500 | Safety airbags with inflater system | 74 |
| 6 | 56031200 | Nonwovens of MMF: Weighing > 25 GSM but not > 70 GSM | 58 |
| 7 | 59031090 | Other Fabrics impregnated, laminated, plated, and coated with PVC | 56 |
| 8 | 95069990 | Other Articles & equipment for general physical exercise, gymnastics or athletics | 50 |
| 9 | 40151200 | Gloves, mittens & mitts used for medical, surgical, dental or veterinary purposes | 43 |
| 10 | 56081190 | Made up fishing nets other than Nylon | 28 |

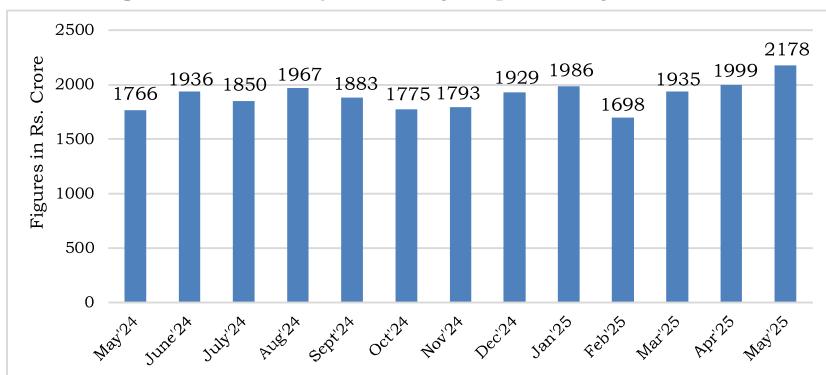
B. IMPORT PERFORMANCE

(Value in INR Cr.)

| Sr. No | Segments | May 2024 | May 2025 | % Growth | Apr-May 2024 | Apr-May 2025 | % Growth |
|--------------------|-------------------|-------------|-------------|------------|--------------|--------------|------------|
| 1 | Agrotech | 33 | 31 | -6% | 263 | 315 | 20% |
| 2 | Buildtech | 175 | 204 | 17% | 323 | 387 | 20% |
| 3 | Clothtech | 18 | 24 | 31% | 35 | 55 | 55% |
| 4 | Geotech | 136 | 201 | 47% | 259 | 364 | 40% |
| 5 | Hometech | 33 | 64 | 96% | 63 | 111 | 76% |
| 6 | Indutech | 294 | 355 | 21% | 570 | 702 | 23% |
| 7 | Meditech | 88 | 89 | 1% | 178 | 175 | -2% |
| 8 | Mobiltech | 480 | 578 | 21% | 959 | 1133 | 18% |
| 9 | Packtech | 56 | 72 | 28% | 106 | 138 | 30% |
| 10 | Protech | 35 | 56 | 60% | 100 | 116 | 15% |
| 11 | Sportech | 48 | 55 | 15% | 89 | 108 | 22% |
| 12 | Nonwovens | 138 | 179 | 30% | 244 | 340 | 40% |
| 13 | Speciality Fibres | 197 | 250 | 27% | 364 | 453 | 25% |
| 14 | Composites | 14 | 19 | 38% | 23 | 35 | 50% |
| GRAND TOTAL | | 1746 | 2178 | 25% | 3577 | 4430 | 24% |

Data Source: ITTA Analysis on Ministry of Commerce and Industry (at 8 digit level of HSN Codes)

Figure 2 - Monthly Trend of Import Performance



India's imports of TT products registered a decline in February 2025, followed by a consistent increase up to May 2025.

Top Ten Imported Products in Month of May '25

| SR. NO. | HSN CODES | PRODUCT NAMES | VALUES (IN CR.) |
|---------|-----------|---|-----------------|
| 1 | 87089500 | Safety airbags with inflator system | 175 |
| 2 | 59039090 | Other fabric plated, laminated, coated & impregnated with other Plastics | 158 |
| 3 | 59032090 | Other fabrics impregnated, laminated, plated, and coated with Polyurethane | 112 |
| 4 | 84212300 | Oil or petrol-filters for internal combustion engines | 106 |
| 5 | 68151100 | Carbon Fibre | 81 |
| 6 | 59031090 | Other Fabrics impregnated, laminated, plated, and coated with PVC | 77 |
| 7 | 54021990 | Other high tenacity yarn of Nylon or other Polyester (Less than 840 Denier) | 67 |
| 8 | 70191100 | Chopped Strands of Glass fibres of a length not more than 50 mm | 59 |
| 9 | 59021010 | Tyre Cord fabric of nylon or other polyamides impregnated with rubber | 51 |
| 10 | 58063200 | Other narrow woven fabrics of man-made fibres | 39 |

*NOTE -

- 12 HSN Codes from the 207 list have been removed from the CUSTOMS TARIFF OF INDIA-2022 effective from 01.05.2022.



ADVERTISEMENT TARIFF FOR ITTA E-BULLETIN

For an ITTA Members, please tick (✓) against one of the following:

| | One Issue | Three Issues | Six Issues |
|-----------|-------------------------------------|-------------------------------------|-------------------------------------|
| Full page | Rs. 20000* <input type="checkbox"/> | Rs. 35000* <input type="checkbox"/> | Rs. 55000* <input type="checkbox"/> |
| Half page | Rs. 11000* <input type="checkbox"/> | Rs. 21000* <input type="checkbox"/> | Rs. 35000* <input type="checkbox"/> |

For a Non-Member of ITTA, please tick (✓) against one of the following:

| | One Issue | Three Issues | Six Issues |
|-----------|-------------------------------------|-------------------------------------|-------------------------------------|
| Full page | Rs. 22500* <input type="checkbox"/> | Rs. 41250* <input type="checkbox"/> | Rs. 66250* <input type="checkbox"/> |
| Half page | Rs. 12500* <input type="checkbox"/> | Rs. 25000* <input type="checkbox"/> | Rs. 42500* <input type="checkbox"/> |

*GST as applicable

MECHANICAL DATA: Full page size: 210 mm x 297 mm, Preferable artwork size: 190mm x 277 mm, Bleed margin = 3 mm on each side (Final Design with bleed area: 216 mm x 303)

MATERIAL FORMAT: CorelDraw/ High Resolution PDF/ 400 dpi JPEG

Mode of Payment:

- I) Payment by DD/Cheque in favour of "INDIAN TECHNICAL TEXTILE ASSOCIATION", payable at Mumbai.
- II) Payment can also be made directly into bank Account -
A/C. Name: INDIAN TECHNICAL TEXTILE ASSOCIATION
Bank Name: Bank of Baroda, Chakala Branch, Mumbai - 400093.
Current Account No: 04220200000491
IFSC Code - BARB0CHAKAL

Mode of sending advt. material:

Name of the Company:.....

Mailing Address:.....

Name of Contact Person:.....Designation:.....

Mobile Number:.....Email:.....

For more information contact

INDIAN TECHNICAL TEXTILE ASSOCIATION (ITTA)

314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road,
J. B. Nagar, Andheri-East, Mumbai 400059.
Mob: 9769464616 Email: info@ittaindia.org



ADVERTISEMENT TARIFF FOR ITTA WEBSITE BANNER

For an ITTA Members, please tick () against one of the following:

| | 15 days | 30 days | 3 months | 6 months | 1 Year |
|----------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Website Banner | Rs. 5000* <input type="checkbox"/> | Rs. 7500* <input type="checkbox"/> | Rs. 15000* <input type="checkbox"/> | Rs. 30000* <input type="checkbox"/> | Rs. 50000* <input type="checkbox"/> |

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| | 15 days | 30 days | 3 months | 6 months | 1 Year |
|----------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Website Banner | Rs. 6250* <input type="checkbox"/> | Rs. 9375* <input type="checkbox"/> | Rs. 18750* <input type="checkbox"/> | Rs. 37500* <input type="checkbox"/> | Rs. 62500* <input type="checkbox"/> |

*GST as applicable

MATERIAL FORMAT: *Size of the Website Advertisement Banner = 1025-pixel X 500-pixel with high resolution image*

Mode of Payment:

- I) Payment by DD/Cheque in favour of "INDIAN TECHNICAL TEXTILE ASSOCIATION", payable at Mumbai.
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Mob: 9769464616 Email: info@ittaindia.org

NEW MEMBERS



CORPORATE MEMBERS

CRYSTAL SAFETY, MAHARASHTRA

Founded in 1997 in Mumbai, Crystal Clothing Company excels in high-fashion garments manufacturing for kids, men and women. Since 2023, they have introduced 5+ national brands in India. Crystal Safety provides durable, high-quality safety clothing, integrating advanced technology for maximum protection and comfort. Their product range includes Safety Work Wear - 15000 MT/ year (FY 2024-25).

SUN POLYTEX PVT. LTD., RAJASTHAN

Sun Polytex was incorporated in the year 2000 to manufacture value-added products of PP Fabric viz. spiral fabric, bale caps, bale bags, gusseted bags, potato bags, paper bags, etc. They have machineries such as extruder, lamination plant, two high-speed printing m/cs, and one BOPP printing m/c to manufacture around 4000 MT PP woven fabrics per annum. They have two units for manufacturing of laminated fabric and bags. The company is coming with one new unit at SP2-5, Kaladwas Industrial Area Udaipur. The new unit will have two extruders, one lamination plant, one printing machine, and Looms. The Unit will come into operation in the financial year 2025-26 to produce 10000 MT PP laminated fabric.

STUDENT MEMBERS

SANTOSH ZAMBRE

Mr. Santosh Shivaji Zambre holds a B.E. in Mechanical Engineering from Shivaji University, Kolhapur, and an MBA from Bharathiar University, Coimbatore. He is currently pursuing a Ph.D. in Operations at Alliance University, Karnataka, with his research focusing on Supply Chain Management in the Technical Textile sector in India.



SHRI RADHIKA NONWOVEN PVT. LTD.

Mfrs. of Industrial & Technical Textiles

Our Fabric can be widely used in
Automotive Industries; Waterproofing; Shoe
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Filtration Line.



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- Insulation Felt
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Fabric widths are available from 1 meter to 6 meters.



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OPPORTUNITY TO CONNECT WITH TECHNICAL TEXTILE INDUSTRY

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- Value chain.
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- Start-ups.
- Individual consultants.

Benefits :

- Updates through email on State & Central Govt. Notifications, Policy changes & new BIS standards.
- Speaking & Mentoring Opportunities who have domain knowledge in Technical Textile subjects in ITTA's training programs.
- Can write articles for publishing in ITTA's E-Bulletin.
- Special Discounts on ITTA's Executive & other professional training programs, delegate fees of ITTA's conferences, seminars & workshops.
- Will get soft copies of ITTA E-Bulletin and special discounts on other ITTA publications.
- Will get Notifications through Email on various Events organised by ITTA.

ASSOCIATE MEMBER



Scan to download
the application form

Student Member

Eligibility criteria :

- Any UG, PG, PhD, Diploma Student pursuing courses on Textile Engineering/ Technology, Fashion Technology or related fields.
- After completing the courses & entering into the industry, students are eligible to apply for Associate Membership.

Benefits :

- Assistance from ITTA on getting Internships & R&D Projects with industry.
- Special Discounts on ITTA's Executive & other professional training programs, delegate fees of ITTA's conferences, seminars & workshops.
- Students can initiate creating "ITTA Chapter" in college for specific activities with industry.
- Will get soft copies of ITTA E-Bulletin and special discounts on other ITTA publications.
- Will get Notifications through Email on various Events organised by ITTA.

STUDENT MEMBER



For further details, contact ITTA office -

Email: contact@ittaindia.org • Mob: +91 9769464616 • Tel: +022 49635711 • Website: www.ittaindia.org
314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059;

UPCOMING EVENTS

| DATES | EVENTS NAME | PLACE | WEBSITE |
|-----------------------------|---|------------------------------|---|
| DOMESTIC EVENTS | | | |
| 01-04 July 2025 | HGH INDIA 2025 (Home Décor, Gifts & Houseware) | Mumbai, India | https://www.hghindia.com/ |
| 10-12 July 2025 | YARNEX (India International Yarn Exhibition) | New Delhi, India | https://www.textilefairsindia.com/de_lhi.php |
| 10-12 July 2025 | HOMTEX (India International Home Textile Exhibition) | New Delhi, India | https://textilefairsindia.com/homtex/ |
| 04.-08 August 2025 | Executive Development Program on MEDICAL TEXTILES | Online Platform | https://www.ittaindia.co.in/ |
| 12-14 August 2025 | SPORT INDIA 2025 (13th India International Sporting Goods Show) | New Delhi, India | www.iisgs.com |
| 08-09 September 2025 | 7th 'RIGHT' HYGIENE 2025 | New Delhi, India | https://righthygiene.com/ |
| 16-18 September 2025 | OSH INDIA | Mumbai, India | https://www.oshindia.com/mumbai/ |
| 06-08 November 2025 | 11th EDITION NONWOVEN TECH ASIA (Exhibition on Nonwoven & Hygiene Technology) | New Delhi, India | https://nonwoventechasia.com/ |
| 18 November 2025 | DORNBIRN GLOBAL FIBRE CONGRESS INDIA | Mumbai, India | https://www.dornbirn-gfc.com/en/home |
| 19-21 November 2025 | TECHTEXTIL INDIA 2025 | Mumbai, India | https://techtex-til-india.in.messefrankfurt.com/mumba_i/en.html |
| 29-31 January 2026 | MEDICAL FAIR INDIA (Trade Fair for Hospitals, Health Centres and Clinics) | New Delhi, India | https://www.medicalfair-india.com/ |
| 03-06 February 2026 | CHEMTECH WORLD EXPO 2024 (32nd International Exhibition & Conference) | Mumbai, India | https://www.chemtech-online.com/chemtech-2026/ |
| 17-19 September 2026 | MEDICAL FAIR INDIA (Trade Fair for Hospitals, Health Centres and Clinics) | Mumbai, India | https://www.medicalfair-india.com/ |
| 04-09 December 2026 | 12th INDIA INTERNATIONAL TEXTILE MACHINERY EXHIBITION | Greater Noida, Uttar Pradesh | https://corporate.india-itme.com/itme2026/ |
| INTERNATIONAL EVENTS | | | |
| 05-12 July 2025 | NANOTEXNOLOGY 2025 (International Conferences & Exhibition on Nanotechnologies, Organic Electronics & Nanomedicine) | Thessaloniki, Greece | https://www.nanotexnology.com/ |
| 21-24 July 2025 | WORLD OF WIPES International Conference 2025 (WOW) | Columbus, USA | https://www.worldofwipes.org/ |
| 04-08 August 2025 | INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS (ICCM) | Baltimore, UK | https://iccm24.com/ |
| 20-22 August 2025 | INTERTEXTILE SHANGHAI HOME TEXTILES | Shanghai, China | https://intertextilehome.hk.messefrankfurt.com/china/en.html |
| 26-28 August 2025 | TECHNOTEXTIL 2025 (International Trade Fair for Technical Textiles, Composite Materials, Polymers and Equipment for their production and processing) | Moscow, Russia | https://en.technotextil.ru/ |
| 26-29 August 2025 | ICACM 2025 (8th International Conference on Advanced Composite Materials) | Tokyo, Japan | https://www.icacm.org/index.html |

| DATES | EVENTS NAME | PLACE | WEBSITE |
|------------------------|--|---------------------|---|
| DOMESTIC EVENTS | | | |
| 03-05 September 2025 | CINTE TECHTEXTIL CHINA | Shanghai, China | https://cinte-techtextil-china.hk.messefrankfurt.com/shanghai/en.html |
| 15-17 September 2025 | MECAM 2025 (3rd Edition of Middle East Composites & Advanced Materials Expo) | Dubai, UAE | https://www.mecamexpo.com/ |
| 17-18 September 2025 | INTERNATIONAL COMPOSITES SUMMIT | Milton Keynes, UK | https://internationalcompositessummit.com/ |
| 22-23 September 2025 | WORLD AGRI-TECH INNOVATION SUMMIT | London, UK | https://worldagritechinnovation.com/ |
| 23-25 September 2025 | OUTLOOK 2025 | Budapest, Hungary | https://www.edana.org/events/outlook/outlook-2025 |
| 07-10 October 2025 | THE 93RD TEXTILE INSTITUTE WORLD CONFERENCE (TIWC) 2025 | Porto, Portugal | https://www.textileinstitute.org/events/ |
| 14-15 October 2025 | RISE 2025 (Research, Innovation & Science for Engineered Fabrics Conference) | North Carolina, USA | https://www.riseconf.net/ |
| 28-31 October 2025 | ITMA ASIA + CITME 2025 | Singapore | https://www.itmaasiasingapore.com/ |
| 04-07 November 2025 | A+A 2025 | Düsseldorf, Germany | https://www.aplusa-online.com/ |
| 05-07 November 2025 | ADVANCED TEXTILES EXPO 2025 | Indianapolis, USA | https://advancedtextilesexpo.com/ |
| 17-20 November 2025 | HYGIENIX 2025 | Florida, USA | https://www.hygienix.org/ |
| 19-22 January 2026 | DOMOTEX 2026 (Home of Flooring & Interior Finishing) | Hannover, Germany | https://www.domotex.de/en/ |
| 21-24 April 2026 | TECHTEXTIL 2026 | Frankfurt, Germany | https://techtextil.messefrankfurt.com/frankfurt/en.html |
| 21-24 April 2026 | TEXPROCESS 2026 | Frankfurt, Germany | https://texprocess.messefrankfurt.com/frankfurt/en.html |
| 18-21 May 2026 | WORLD OF WIPES International Conference 2026 (WOW) | Columbus, USA | https://www.worldofwipes.org/ |
| 19-22 May 2026 | INDEX 2026 (Nonwoven Exhibition) | Palexpo, Geneva | https://www.indexnonwovens.com/en/ |
| 09-13 June 2026 | ITM 2026 (International Textile Machinery Exhibition) | Istanbul, Turkey | https://www.itmexhibition.com/en/2026en/ |
| 09-13 June 2026 | HIGTEX 2026 (International Technical Textile & Nonwoven Exhibition) | Istanbul, Turkey | https://www.hightex.com.tr/ |
| 30 June-2 July 2026 | FILTECH 2024 (The Filtration Event) | Cologne, Germany | https://filtech.de/ |
| 29-30 September 2026 | RISE 2026 (Research, Innovation & Science for Engineered Fabrics Conference) | North Carolina, USA | https://www.riseconf.net/ |
| 28-29 October 2026 | FILTXPO™ 2026 (International Filtration Conference & Exhibition) | Florida, USA | https://www.filtxpo.com/ |
| 16-19 November 2026 | HYGIENIX 2026 | Texas, USA | https://www.hygienix.org/ |