WEBINAR ON "THE FUTURE OF SPORT TEXTILES & ACCESSORIES INDUSTRY IN INDIA" JOINTLY HELD BY ITTA & WRA

Keynote address of Secretary (Textiles) at "Webinar on Sportech"

GUIDELINES FOR NEW DEGREE COURSES IN TECHNICAL TEXTILES ARE UNDER DEVELOPMENT BY MoT, GoI

MAJOR INITIATIVES BY GOVT. TO BOOST TEXTILE/TECHNICAL TEXTILE INDUSTRIES

- SHORT-TERM FOREIGN TRADE POLICY WILL BE RELEASED SOON
- ECGC INTRODUCES NEW SCHEME ENHANCING EXPORT CREDIT RISK INSURANCE COVER UPTO 90%
- HARYANA ATMA NIRBHAR TEXTILE POLICY TO BE ROLLED OUT SOON
- TAMIL NADU TO UNVEIL NEW STARTUP AND INNOVATION POLICY SOON
POLYBEAMER & UNROLLING CREEL for P.P. & HDPE FLAT TAPE

GEO FABRIC APPLICATION

PRASHANT GROUP OF INDUSTRIES
Plot No. 4, Phase - 1, G.I.D.C. Estate, Vatva, Ahmedabad 382 445, India.
Tel: +91-79-2583 0603 / 2583 3384 / 2589 1779, Fax: +91-79-2589 4020 E-mail: gamatex@prashantgroup.com
www.prashantgroup.com
Bamboo Sanitary Pads
Plastic-free, biodegradable and compostable


- No plastics, no harsh chemicals, no artificial fragrances
- Advanced stay-in-place wings
- Rapid fluid distribution channels
- Superior absorbency
- Wider back design to ensure extra coverage and protection
- Super-soft top layer
- Leak-proof protection

The beginning of everything better.

Better for your body
No harsh chemicals or fragrances that may cause skin irritations/rashes.

Better for the planet
Plastic-free pads made with sustainable, compostable, and biodegradable ingredients.

Better control over the quality
We manufacture Sparkle pads at our ISO 9001 and ISO 13485 certified facility to ensure that we achieve the best results.

Better transparency
We transparently disclose our ingredients so that you can make informed purchase decisions.

Sparkle is India’s biggest manufacturer
of natural and biodegradable sanitary napkins.

With over 50,000 square feet dedicated solely to R&D and production, our manufacturing facility is one of India’s most modern ‘absorbent hygiene products’ factories.

Equipped with a fully automatic, Italian sanitary pad production line capable of producing over 1 million sustainable sanitary pads per day, our aim is to keep paving the path towards a greener future.

Address: PL No. L-175, A-176 to A-189, C-190, Hindva Dreams, Dhoran Pardi, Kamrej, Surat - 394150, Gujarat, India | +91 98241 53000

sales@sparkle.life
www.sparkle.life
Handbook covers the details of the successful case studies of all types/fibre base of geosynthetics in the country. It has been classified under five categories i.e. -

- Soil Stabilization - Pavement & Embankment
- RSW with Block, Panel, Gabion & Wire Cage Facing
- River Bank - Shore Protection & Erosion Control
- Canal Lining & Hydraulic Control
- Landfill

*Courier charges extra

ITTA Defence Handbook

INDIAN TECHNICAL TEXTILE PRODUCTS FOR DEFENCE

- A Global Reach -

Handbook covered major areas of Defence products with Indian Manufacturers' Names, Contact Details and Product Specifications i.e.

- Protective Clothing & Accessories
- Collective Protection
- Load Carrying fabric
- Geosynthetics

*Courier charges extra

For Copies Contact-
INDIAN TECHNICAL TEXTILE ASSOCIATION,
314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059
Tel: +91 22 49635711, Mob: +91 9769464616; Email: info@ittaindia.org;
# CONTENTS

**Issue No. 79 | July-August, 2022**

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- **Ms. Ruchita Gupta**, Manager (Technical)

## SPECIAL REPORT
- **WEBINAR ON SPORTECH - “The Future of Sport Textiles & Accessories Industry in India”**

## EXPORT-IMPORT PERFORMANCE

## MARKET UPDATE

## ITTA ACTIVITIES
- **ENGAGEMENTS WITH CENTRAL & STATE GOVERNMENTS**
  - Meeting of IMSC under ATUFS
  - Meeting for discussion regarding amendments in new HS Code for TT items

## NATIONAL NEWS
- Guidelines For New Degree Courses in Technical Textiles Are Under development By MoT, GoI
- Over 50 applications expected for mini textile park scheme in Tamil Nadu
- Short-term foreign trade policy, may release before September
- New scheme providing enhanced export credit risk insurance cover up to 90%
- Mandatory Procurement from MSMEs for Defence Establishments
- Haryana Atamirbhar Textile Policy to be rolled out soon
- Tamil Nadu to unveil new Startup and Innovation policy soonPG NO

## INNOVATIONS & TECHNOLOGY
- **SMART TEXTILES** - Nanotube-coated yarns
- **MEDITECH** - High-tech Textile vest
- **MACHINERY** - Single-sided functional finishing
- **INDUTECH** - Lint free wipes

## UPCOMING EVENTS

## ADVERTISEMENT INDEX
- Prashant Garnatex Pvt. Ltd.
- Sparkle Eco Innovations Pvt. Ltd.
**WEBINAR ON SPORTECH** - "The Future of Sport Textiles and Accessories Industry in India"

The Indian Technical Textile Association (ITTA) jointly with the Wool Research Association (WRA) organized a WEBINAR ON SPORTECH - "The Future of Sport Textiles and Accessories Industry in India" on 13th July 2022 through Virtual Platform. The workshop received over whelming response and attended by more than 190 delegates from the technical textile Industry, COEs, Textile Colleges & Universities and Govt. Officers.

The Guest of Honor of the webinar was Shri. Upendra Prasad Singh, IAS, Secretary (Textiles), MoT and Ms. Roop Rashi, IA&AS, Textile Commissioner, MoT as Chief Guest. Shri. Amit Agarwal, Chairman, ITTA welcomed the Guests from the MoT and OTxC, Experts and Delegates from the Sports Textiles and Accessories industry. He highlighted that how ITTA, WRA & Archroma came together to brainstorm the issues & requirements of SporTech industry and get the information about what could be the way forward and accordingly we are planning to organise the physical event on the larger scale in the 3rd week of September 2022.

Shri. K. K. Misra, Director (Officiating) & Chief Operations Officer, WRA delivered the welcome address saying that this event will provide the growing opportunity to the Sports Industry. He briefed about the activities and working of the WRA, COE on SporTech and its linkages with various International & National Universities, Associations, Sports textile manufacturers, etc. He pointed out that all these linkages whether domestic or international in a way will support us and are giving value to it for the three segments of SporTech i.e., Gear, Wear & Accessory. He also mentioned that WRA has got additional 150 NABL parameters approved which means today we have total 668 NABL accreditation.

Speaking at the webinar, Guest of Honor, Shri. Upendra Prasad Singh, IAS, Secretary (Textiles) said that Sport Textiles & Accessories sector is emerging as one of the fastest growing TT segments in world & also in India. Indian TT sector is growing at 12% and has reached US$ 24 billion (Rs.1.81 Lakh Cr.) during 2021-22. He further emphasized that higher sustainable growth & investment for this high value-added textile sector in India face many challenges like quality products, competitive prices, advanced technology & raw materials, sustainable production processes, standards, adequate machinery etc. A slew of focused schemes and policy thrust for TT in NTTM, PLI & PM-MITRA initiatives are giving hope for revival across the sunrise TT value chain & accessories segments to excel in growth and exports in immediate future. It is imperative to handhold & nurture certain TT segments like SporTech with focused policies for further strengthening its manufacturing & exports in order to spur futuristic sustainable growth, creating employment & export earnings. Globally, SporTech has 15% share in TT wherein MobileTech, Sportech & Indutech together constitute 56% share of total global consumption of TT. At this critical juncture Indian Sportech & Accessories sector needs urgent attention to strengthen its domestic manufacturing leading to reduce its import dependency of its key value chains & accessories segments for developing world class competitive products, demanded by major SporTech brands across the world and also will be consumed in the Indian market. He also added that this webinar will help ITTA, WRA and industry to further crystalize the emerging problems and understand them in a perspective for suggesting practical solutions & policies which can be submitted to the Govt. for support and action.

Chief Guest Ms. Roop Rashi, IA&AS, Textile Commissioner highlighted that Indian Sportech sector could emerge as a high growth sector due to our inherent favorable factors viz. high consumption demand driven by demographic dividend of active youth population, the multiplier effect of initiatives like the TUFS, NTTM, PLI, PM-MITRA scheme, availability of basic raw materials at competitive prices & thrust by the Govt. for sports infrastructure including the Khelo India initiative. She mentioned that for evolving, Sportech & Accessories sector needs a cohesive approach involving all key stakeholders, in line with the vision...
of Atmanirbhar Bharat to make it self-reliant by creating a sustainable value chain and robust accessories segments focusing on reducing cheap imports dependence and giving thrust to hand-holding MSMEs and Start-ups. She also pointed out that major impediments for growth of world class Sportech products in India includes low quality & counterfeit products produced by a large number of unorganized units in this sector. This needs attention in terms hand holding with them for making quality products, making them aware of global standards and fashion trends.

The purpose of the webinar was to bring together all Sportech supply chain manufacturers and users in one platform to discuss the key business & policy issues through panel discussions with the relevant Industry Captains & domain experts. The webinar consists of Three Sessions --

1. **Session 1-Introduction to Sportech**

2. **Session 2- Panel Discussion on Sports Goods and Accessories: Coated fabrics, Nets, Composites and Rubber Products**

3. **Session 3- Panel Discussion on Sports Apparel and Supply Chain Management**

**SESSION 1**

Dr. Smita Bait, WRA, COE for Sportech spoke about the “Gap Analysis & Requirements- Sportech”. She highlighted about the Survey on Sportech sector (North India) wherein they have visited some of the Industry & Institutions in Panipat, Meerut and Jalandhar. She pointed out the gap in Sportech industry that is Wool/ Nylon blended fabric for lawn tennis ball, Low cost 4 way stretch fabric for Sportswear, Dyed Nylon 66 knitted fabric with good fastness properties, Manufacturing of Seamless garment and its technical knowhow, Artificial turf manufacturing as per International Norms of FIFA, Hockey Federation etc. and Development of knitting technology for fabric using yarn with higher Lycra percentage wherein a lot of technical intervention are required. She explained about the Testing Facilities for Sports Garments and Functional Fabric available in WRA and also mentioned some of the products developed by WRA i.e., Waterproof Breathable Rainwear, Waterproof Breathable Hi-Visible Jacket, Reusable waterproof of breathable PPE-coverall, Smart Sports T-Shirt, Evaporative Cooling Jacket and Active Heating System based sleeping bag.

**SESSION 2**

The 1st Panel Discussion was moderated by Dr. Anup Rakshit, ITTA. The Panelists in the session were - Shri. Aditya Sharma, Process Cum Product Development Centre (PPDC), Shri. Sanjay Poddar, Topline Commodities Pvt. Ltd., Dr. Milind Khandwe, The Bhor Chemicals & Plastics Pvt. Ltd., Shri. Surya Mahajan, R K Mahajan Exports, Shri. Yogesh Motegaonkar, Garware Technical Fibres Ltd. and Smt. Suchismita Sahoo, Indian Rubber Manufacturers Research Association.

Dr. Rakshit said that this session will focus on the products falling under Sports Goods and Accessories, Raw materials and Process used to manufacture. Policy related Issues on availability of RM, machinery, processes, testing equipment, quality standards, etc. Current market trends & future growth potentials of various Sportech products & investment opportunities.

The Panelists addressed all the questions covering areas, such as Current market trends of sport industry is total 2000 cr. wherein 800 cr. is import and 1200 cr. is domestic production said, Shri. Aditya & future growth potentials of various Sportech products such as sportswear, sports footwear, tennis ball, hockey sticks, boxing equipment, leg pads & cricket bat, sports helmet, etc., Shri. Sanjay said that PU coated fabrics are used in various Sportech products such as football, volleyball, sport shoes, hand gloves, punching bags, etc. Only 4 manufacturers of PU synthetic leather in India are Topline, Mayur Uniquoters, Jasch Industries & Winner Nippon wherein their total domestic production is 8% i.e., 4 lakh/month. Huge amount i.e., 40 lakh mtrs/month of PU synthetic leather are being imported to India because of price variation, quantity variation, pay less duty to govt. and getting the products at our reasonable price. For stopping of such imports now we have got the anti-dumping duty on PU synthetic leather if imported from China. Shri. Milind mentioned that various RMs & process used to manufacture Sport composites-basic material wise composites is divided in 2 parts such as high-performance fibres- carbon, aramid, glass and resins systems. How is the future potential in sport composites business, what are the products have potential in future- badminton rackets, tennis racket, helmets, bicycle parts, hockey stick, water & ice sports. Shri. Surya spoke about the end user cost comparison of the above products- for example- top
quality wooden hockey stick will cost 1500 Rs. for life cycle of 1 yr. whereas composite hockey stick made of fibre glass will cost around 2500 Rs for life cycle of 6 yrs. Shri. Yogesh mentioned that Garware is largest manufacturers of sport accessories like nets, strings & ropes and also manufactures other products such as gym foam mat, inflatable products, webbings, etc. Supplying quality products to all major tournaments like FIFA, US Open, etc. and Challenges faced in this are high end testing equipment’s which are not available in India. Use of Rubber Products - natural & synthetic in bicycle tyre, car tyre, rubber flooring for sports such as gymnasium, jogging track, etc., R&D & Testing facilities available in IRMRA and how industry can take benefits out of it, what are futuristic research program on products, process, RM development, etc. undertaken by IRMRA were highlighted by Smt. Suchismita.

SESSION 3


The Panelists addressed all the questions - Shri. Henry mentioned that sport industry needs to bring the awareness to the customers about the different Sportech product, its quality, its affordability to customers, to understand its value for performance, prevention of injuries and rehabilitation, what are the major hurdles and gaps in branding & supply chain management to the consumers- Shri. Sunil said that there is no prominent brand of sportswear in India because of lack of understanding, requirement of Indian consumers and how to uplift the whole ecosystems to serve them. Sustainable solutions to the specific issues and concerns, Challenges faced in supply chain management, Process aspects, Certification cost which needs to be taken up with the Govt., availability of critical raw materials & inputs, and problems for availing latest technology for manufacturing sportswear.

FEEDBACK FROM THE PARTICIPANTS

1. WELSPUN - One of the Excellent sessions. Thanks ITTA team
2. DE ARIA CREATIONS - The session is very informative; Dr. Rakshit thank you for this platform.
3. ARCHROMA - Thank you very much for such a wonderful and informative session!
4. WILDCRAFT INDIA - Very nicely organized. Congratulations to organising team!
5. DUCIT MATERIALS - It was a great session! Very interesting!!! Well done to all the participants and panel members. Great Job!!!
6. COLOURTEX INDUSTRIES - Very nicely organised. Congratulations. Valuable knowledge and apprehensive session
7. NIFT- SRINAGAR - Very useful and informative talk from the experts
8. NIRMALA NIKETAN - Excellent thoughts shared all speakers. Thank you for the wonderful program. Congratulations ITTA and WRA.
The data on export and import of 215 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.)**

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Segments</th>
<th>May 2021</th>
<th>May 2022</th>
<th>% Growth</th>
<th>Apr’21-May’21</th>
<th>Apr’22-May’22</th>
<th>% Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agrotech</td>
<td>50</td>
<td>73</td>
<td>48%</td>
<td>100</td>
<td>138</td>
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<td>2</td>
<td>Buildtech</td>
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<td>84</td>
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<td>124</td>
<td>164</td>
<td>33%</td>
</tr>
<tr>
<td>3</td>
<td>Clothtech</td>
<td>23</td>
<td>26</td>
<td>13%</td>
<td>46</td>
<td>58</td>
<td>26%</td>
</tr>
<tr>
<td>4</td>
<td>Geotech</td>
<td>211</td>
<td>139</td>
<td>-34%</td>
<td>422</td>
<td>303</td>
<td>-28%</td>
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<tr>
<td>5</td>
<td>Hometch</td>
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<td>17</td>
<td>-24%</td>
<td>41</td>
<td>36</td>
<td>-13%</td>
</tr>
<tr>
<td>6</td>
<td>Indutech</td>
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<td>545</td>
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<td>7</td>
<td>Meditech</td>
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<td>258</td>
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<tr>
<td>9</td>
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<td>45%</td>
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<td>41%</td>
<td>127</td>
<td>180</td>
<td>41%</td>
</tr>
<tr>
<td>12</td>
<td>Nonwovens</td>
<td>141</td>
<td>109</td>
<td>-23%</td>
<td>288</td>
<td>249</td>
<td>-13%</td>
</tr>
</tbody>
</table>

**GRAND TOTAL**

|          | 1658    | 1921    | 16%     | 3364    | 3937    | 17%     |

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

### Top Ten Exported Products in Month of May’22 -

<table>
<thead>
<tr>
<th>SR. NO.</th>
<th>HS CODES</th>
<th>PRODUCT NAMES</th>
<th>VALUES (IN CR.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>63053200</td>
<td>Flexible Intermediate Bulk Containers (FIBC)</td>
<td>607</td>
</tr>
<tr>
<td>2</td>
<td>59039090</td>
<td>Other fabric plated, laminated, coated, impregnated with other plastics</td>
<td>106</td>
</tr>
<tr>
<td>3</td>
<td>56074900</td>
<td>Other cordage of Polyethylene/ Polypropylene</td>
<td>78</td>
</tr>
<tr>
<td>4</td>
<td>53101013</td>
<td>Jute Hessian fabrics</td>
<td>75</td>
</tr>
<tr>
<td>5</td>
<td>84212300</td>
<td>Oil or petrol-filters for internal combustion engines</td>
<td>64</td>
</tr>
<tr>
<td>6</td>
<td>61152990</td>
<td>Panty Hose and Tights of other fibres</td>
<td>59</td>
</tr>
<tr>
<td>7</td>
<td>40151200</td>
<td>Gloves, mittens &amp; mitts used for medical, surgical, dental or veterinary purposes</td>
<td>54</td>
</tr>
<tr>
<td>8</td>
<td>56031200</td>
<td>Nonwovens of MMF: Weighing &gt; 25 gsm but not &gt; 70 gsm</td>
<td>51</td>
</tr>
<tr>
<td>9</td>
<td>59031090</td>
<td>Other fabrics impregnated, laminated, plated and coated with PVC</td>
<td>51</td>
</tr>
<tr>
<td>10</td>
<td>95069990</td>
<td>Other Articles &amp; equipment for general physical exercise, gymnastics or athletics</td>
<td>42</td>
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</table>

### Figure 1 - Monthly Trend of Export Performance

There was a dip in the above export figures in month of April 2022, then the export had picked up in May 2022.
India's imports of TT products have registered a slight decrease in month of April 2022, then it had shown a growth in May 2022.

### B. IMPORT PERFORMANCE

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

#### Top Ten Imported Products in Month of May’22 -

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Segments</th>
<th>May 2021</th>
<th>May 2022</th>
<th>% Growth</th>
<th>Apr’21-May’21</th>
<th>Apr’22-May’22</th>
<th>% Growth</th>
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<td>Agrotech</td>
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<td>4%</td>
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<td>18</td>
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<tr>
<td>4</td>
<td>Geotech</td>
<td>143</td>
<td>108</td>
<td>-25%</td>
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<td>Hometech</td>
<td>28</td>
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<td>33%</td>
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<td>12%</td>
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<td>9</td>
<td>Packtech</td>
<td>32</td>
<td>34</td>
<td>4%</td>
<td>73</td>
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<td>25%</td>
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<td>10</td>
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<td>18%</td>
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<td>105%</td>
<td>55</td>
<td>106</td>
<td>93%</td>
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<tr>
<td>12</td>
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<td>-2%</td>
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<td>1779</td>
<td>13%</td>
<td>3146</td>
<td>3543</td>
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### Figure 2 - Monthly Trend of Import Performance

India's imports of TT products have registered a slight decrease in month of April 2022, then it had shown a growth in May 2022.
Global Automotive Textile Market to grow 5.75% by 2023

Global automotive textile market is expected to reach 3.310 million ton by 2023 with an annual growth of 5.75%. Indian automotive textile market is likely to have the fastest growth at 12.28%. But China will remain the biggest market with a growth of 9.30% and a market size of 1.118 million ton which would be one third of the total.

According to Fibre2Fashion’s market insight tool TexPro, global market of automotive textiles was 2.502 million ton in 2018. It means that the market will grow by 8.08 lakh ton. The market was 2.015 million ton in 2015, 2.169 million ton in 2016 and 2.313 million ton in 2017. Therefore, it added a volume of 4.87 lakh ton in the last three years. Economic disruption in the world due to COVID-19 dampened auto sector’s growth but it witnessed a V-shaped recovery after the pandemic.

China’s market size was 7.17 lakh ton in 2018, 6.62 lakh ton in 2017, 6.22 lakh ton in 6.22 in 2016 and 5.29 lakh ton in 2015, as per TexPro. After China, US, Japan, Rest of Europe (excluding Germany, Spain, France, Turkey and UK) and India are among the top five countries in terms of market volume.

The US market will grow to 3.27 lakh ton in 2023 from 2.72 lakh ton in 2015. Therefore, the country will have a growth of 2.32%. Japanese market will grow by 3.58% to reach 2.33 lakh ton in 2023 from 1.66 lakh ton of 2015. The market of rest of Europe will reach 2.33 lakh ton with a growth of 3.01%.

The Indian market will have the fastest growth of 12.28% but in terms of volume, it ranks fifth in the world. Indian automotive textile market will reach at 2.26 lakh ton in 2023. The market size was 0.88 lakh ton in 2015, 0.99 lakh ton in 2016, 1.11 lakh ton in 2017 and 1.26 lakh ton in 2018. India’s market size of automotive textile is still very limited when compared to China.

1. ENGAGEMENTS WITH CENTRAL & STATE GOVERNMENTS

1.1. Meeting of IMSC under ATUFS

The 07th meeting of IMSC under ATUFS was held through audio-video conferencing on 22.07.2022 under the Chairpersonship of Hon'ble Minister of Textiles & co-chaired by Hon'ble Minister of State for Textiles. Dr. Anup Rakshit, ED, ITTA attended the meeting. MOM was circulated to all ITTA members.

Major Decisions Taken in IMSC are -

- Allowed verification of cases by JIT where 88 days' time line has been expired/ being expired/ will expire till 3 months from the date of making portal live for automation/graded inspection.
- Textile Commissioner may allow one-time corrections in UID under RRTUFS and to be recorded in writing which will be brought to the notice of IMSC.
- Allowed condoning delay in upload of JIT report beyond relaxation in timeline for 13 cases.
- As per the standard market practice of motor manufacturers, the revision in specification of the Air compressor was made.

1.2. Meeting for discussion regarding amendments in HS Code published in Customs Tariff of India for Technical Textile items

ITTA found that there are some mistakes and repetitions in new/ revised HSN codes of technical textile items in the Customs Tariff of India-2022 document effective from 01.05.2022. And the same were submitted to the OTxC for the required corrections in the above document. In this regard, a meeting for discussion regarding amendments in HS code published in Customs Tariff of India for technical textile items was held under the Chairmanship of Shri S. P. Verma, Additional Textile Commissioner on 12.07.2022.

During said meeting various inputs were provided by the Technical Committee members and industry representatives present in the meeting. Based on the inputs, a draft report was compiled by OTxC and submitted to all committee members to offer their inputs in respective line items. Accordingly, ITTA collected the inputs from its industry members and submitted to OTxC for further deliberation & to finalise the corrections in HSN codes & their descriptions.

ITTA SIGNED MOU WITH THE TEXTILE INSTITUTE (TI)

Textile Institute (TI) is a unique organisation in textiles; clothing and footwear incorporated in England by a Royal Charter granted in 1925 and is a registered charity. The Institute has Individual and Corporate Members in up to 70 countries. The membership covers all sectors and all disciplines in textiles, clothing and footwear with current focus on Technical Textiles. Benefits of the MOU are:-

1. ITTA Members can become member of TI at a discounted rate of 30%
2. To jointly organise International workshop, seminar or symposium for technical textile companies.
3. To support major events of Technical Textiles Industries organized by ITTA and TI members.
1. BIS SECTIONAL COMMITTEE MEETINGS -

1.1 High Performance Fibres, Fibrous Structure and Textile Components of Composites Sectional Committee (TXD 40)

The 4th Meeting of High Performance Fibres, Fibrous Structure and Textile Components of Composites Sectional Committee, TXD 40 was held through video conferencing on 22.06.2022. The meeting was attended by Dr. Anup Rakshit, ED, Ms. Ruchita Gupta, Manager (Technical) from ITTA Secretariat and ITTA Members from Bhor Chemicals and Plastics Pvt. Ltd., Kusumgar Corporates Pvt. Ltd., Nikol Advance Materials Pvt. Ltd. and Reliance Industries Ltd.

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

1. **Wide Circulation** -

2. **Draft Preparation Stage** -
   a) Reliance will scrutinize stds - IS 11273:1992- Woven roving fabrics of E glass fibre, IS 11320:1997- Glass fibre rovings for the reinforcement of polyester and of epoxide resin systems & IS 11551:1996- Glass fibre chopped strand mat for the reinforcement of epoxy phenolic and polyester resin systems & suggest suitable modification(changes) to BIS. Then BIS will prepare draft revision of these stds.
   b) Preliminary drafts to be prepared on Aramid fibre & filament- Kusumgar Corporates, Dupont & Arvind, HT & SHT Nylon filament- SRF & Century Enka, HT/SHT Polyester- Reliance, PET Division & SRF and HT/SHT Polypropylene- Reliance, PP Division and Carbon fibres- CSIR-NAL, Nikol Advance and Bhor Chemicals.

1.2 Technical Textiles for Sportech Applications Sectional Committee (TXD 37)

The 5th Meeting of Technical Textiles for Sportech Applications Sectional Committee, TXD 37 was held through video conferencing on 30.06.2022. The meeting was attended by Dr. Anup Rakshit, ED, Ms. Ruchita Gupta, Manager (Technical) from ITTA Secretariat and ITTA Members from Garware Technical Fibres Ltd. and Kusumgar Corporates Pvt. Ltd.

Following points were discussed & decided in the meeting -


2. **Wide Circulation** - Preliminary draft on Parasailing fabrics will be issued under wide circulation

3. **Draft Preparation Stage** - Working draft for sports ropes will be prepared by Garware Technical Fibres.

1.3 Technical Textiles for Mobiltech Applications Sectional Committee (TXD 38)

The 5th Meeting of Technical Textiles for Mobiltech Applications Sectional Committee, TXD 38 was held through video conferencing on 06.07.2022. The meeting was attended by Dr. Anup Rakshit, ED from ITTA Secretariat and ITTA Members from Arvind Ltd., Autoliv India Ltd., Kusumgar Corporates Pvt. Ltd. and SRF Ltd.

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


2. **Draft Preparation Stage** - Working draft on Seat upholstery fabric and Headliners will be prepared by BIS.

1.4 Industrial Fabrics Sectional Committee (TXD 33)

The 16th Meeting of Industrial Fabrics Sectional Committee, TXD 33 was held through video conferencing on 15.07.2022. The meeting was attended by Dr. Anup Rakshit, ED, Ms. Ruchita Gupta, Manager (Technical) from ITTA Secretariat and ITTA Members from Arvind Advance Material Ltd., Archroma India Pvt. Ltd., Garware Technical Fibres Ltd., Ginni Filaments, Kirti Filtration and Automation Pvt. Ltd., Kusumgar Corporates Pvt. Ltd., Masturlal Pvt. Ltd., Pacific Harish Industries Ltd. & Welspun Pvt. Ltd.

Following points were discussed & decided in the meeting -

1. **Wide Circulation** - Two Draft standards will be issued under wide circulation- IS 6803 - Special proofed canvas and Duck, IS 13510 - Polyester Cotton blended, rip-stop.

2. **Draft Preparation Stage** - PSG College (COE-Indutech) will prepare the Preliminary draft on Industrial Nonwoven Wipes.


4. Transfer of 35 IS stds on Coated fabric from PCD 13/PCD 29 to TXD 33.
The Ministry of Textiles has developed guidelines for introduction of new degree courses in Technical Textile in engineering colleges. The Ministry intends to provide financial assistance up to Rs. 15 Cr to the educational institutes meeting the eligibility criteria as per guidelines. These guidelines shall be released soon and applications from educational institutes will be invited.

The intervention is part of the National Technical Textiles Mission (NTTM). Along with development of a new Degree Course, updation of the existing conventional degree courses with new papers of Technical Textiles, establishment of laboratory infrastructure involving upgrading of existing infrastructure, setting-up of New Laboratory Equipment facilities, and Training of trainers and faculty members across different application areas of Technical Textiles are also included in the guidelines.

Technical textiles have contributed immensely in productivity improvement, public safety, cost reduction and durability of infrastructure projects, environment protection and improvements in living standards of citizens in the developed countries. India has nearly 6% of world market size of 250 billion USD. Penetration level of technical textiles is low in India at 5-10% as against 30-70% in advanced countries. The mission aims at improving penetration level of technical textiles in the country.

One of the major factors affecting the growth of technical textiles in the country is the lack of quality manpower, specially educated and trained engineers and professionals, and highly skilled workmen both for manufacturing and application areas of technical textiles. Therefore, in order to become a world leader and pioneer in the field of technical textiles in the next decade, India has to lay focused emphasis on creating an effective knowledge and world-class skill ecosystem.


Over 50 applications expected for mini textile park scheme in Tamil Nadu

The State government expects over 50 applications for the mini textile park scheme in a week. It has received 44 applications so far and another 10 are expected within a week. Shri. M. Vallalar, Textile Commissioner, Tamil Nadu, told, “There can be any number of parks in the State. This is mainly for the small and medium-scale units. We are pushing for technical textile units, including medical, industrial and Defence textiles,” he said. A large number of applications had come from Karur district, he added.

The mini textile park scheme was modified by the government to provide subsidy for industrial sheds.
Medicfibers, IIT Delhi incubated startup, in collaboration with AIIMS New Delhi, has developed an antimicrobial solution Viroclog® that when applied as a coating on textiles, provides long-lasting protection against HAI by reducing virus, bacteria, fungi survival on fabric. Coating the Viroclog® on textiles lowers the surface energy preventing adhesion of microbes and destroys the membrane integrity of microbes. Destruction of lipid-based membrane barrier makes the microbes inactive, thus preventing infection transmission.

Develops Antimicrobial Solution provides protection against Hospital-Acquired Infections

Medicfibers, IIT Delhi incubated startup, in collaboration with AIIMS New Delhi, has developed an antimicrobial solution Viroclog® that when applied as a coating on textiles, provides long-lasting protection against HAI by reducing virus, bacteria, fungi survival on fabric. Coating the Viroclog® on textiles lowers the surface energy preventing adhesion of microbes and destroys the membrane integrity of microbes. Destruction of lipid-based membrane barrier makes the microbes inactive, thus preventing infection transmission.

Govt. plans short-term foreign trade policy, may release before September

The government may roll out a new foreign trade policy (FTP) of a shorter term of two-three years in a bid to keep pace with the fast-evolving scenarios in international trade which have been triggered by recent disruptions, such as the pandemic and the Russia-Ukraine war.

An FTP is an elaborate policy guideline and strategy to promote the export of goods and services, with a duration of five years usually. The existing policy came into force on April 1, 2015, and was valid for five years, before multiple extensions.

“We may come up with a foreign trade policy for two-three years; the aim is to release it before September. Earlier, we had put out fiscal incentives under the FTP but that’s not the case anymore. The government has already announced export-boosting schemes like RoSCTL (Rebate of State & Central Taxes and Levies) and RoDTEP (Remissions of Duties and Taxes on Exported Products). A time-to-time review of the policy is crucial and a shorter time frame will help,” a senior government official told.

Exporters currently get support from schemes such as interest equalisation scheme, transport subsidy scheme, RoSCTL, and RoDTEP. Various export incentive schemes had to be phased out after India faced challenges at the World Trade Organization (WTO) over the same.

In the upcoming FTP, one of the key highlights shall be the 'Districts as Export Hubs' scheme. Under the scheme, the focus will be on 50 districts that have products with huge export potential. It will be a centrally sponsored scheme, with the majority contribution by the Centre and the remaining by the states.


Export Credit Guarantee Corporation of India (ECGC) has introduced a new scheme to provide enhanced export credit risk insurance cover to the extent of 90% to support small exporters under the Export Credit Insurance for Banks Whole Turnover Packaging Credit and Post Shipment (ECIB-WTPC & PS). The scheme is expected to benefit a number of small-scale exporters availing of export credit with banks which hold the ECGC WT-ECIB covers. This will also enable the small exporters to explore new markets/new buyers and diversify their existing product portfolio competitively.

Addressing a press conference in Mumbai on 26.07.2022, ECGC Chairman Shri M Senthilnathan said, “We expect the cover to play a game changing role. We expect this to bring up percentage of accounts with up to Rs. 20 crores, thereby lending further stability to ECGC portfolio”. He further said, “By giving 90% cover to banks, we expect more small companies to get export credit from banks, benefiting these industries greatly. We expect banks to provide more concessions. The net effect will be benefit to exporters, involving reduction in interest rate”.

Thanking the Commerce Ministry and the Minister Shri Piyush Goyal, ECGC Chairman said, “The Government supported us with adequate capital infusion in recent years. This, as well as the need to make our cover more helpful to exporters has led us to take the decision being announced”. Shri Senthilnathan further remarked, all governments took various measures to stabilize the market in view of COVID-19, because of which, ECGC has not withdrawn cover given to exporters, against expectations, export credit insurance agencies all over the world have witnessed only average levels of claim ratios, not high ratios.

Enhanced Cover to Banks - The enhanced cover shall be available for manufacturer- exporters availing fund-based export credit working capital limit up to demonstrating a high durability. ViroClog® solution reduces infections.

Unique features of protective action of ViroClog® - Provides antimicrobial efficacy upto 99.9% against viruses, bacteria & fungus, long lasting antimicrobial properties for more than 100 washes, Products treated with ViroClog® are OEKO Tex Suited and REACH Compliant indicating that they are safe and human skin friendly and Tests were performed at AIIMS New Delhi, IIT Delhi, IISc Bangalore and NABL accredited labs.

[Source - https://home.iitd.ac.in/show.php?id=4&in_sections=Startups#::text=Medicfibers%20C%20a%20FITT%20C%20IIT%20Delhi,bacteria%20fungi%20survival%20on%20fabric]
The Government has taken the following policy initiatives for promotion of Micro, Small & Medium enterprises (MSMEs) in defence sector:

- In the Defence Acquisition Procedure 2020, there are specific reservations on Orders up to Rs 100 crore/year for MSMEs.

- An innovation ecosystem for Defence titled Innovations for Defence Excellence (iDEX) has been launched in April 2018. iDEX is aimed at creation of an ecosystem to foster innovation and technology development in Defence and Aerospace by engaging Industries including MSMEs, Start-ups, Individual Innovators, R&D institutes and Academia and provide them grants/funding and support to carry out R&D which has potential for future adoption for Indian defence and aerospace needs.

- The Defence Offset guidelines have further paved the way for proactive participation of MSMEs of India by incorporating a scheme of multipliers of 1.5 for engaging MSME as Indian Offset Partners (IOP), which promotes their integration in global supply chain.

- MSMEs are important partners in DRDO projects and DRDO transfers technologies to them. They are important partners in industry ecosystem for the production of DRDO developed products. DRDO through its scheme Technology Development Scheme (TDF) funds industries, especially Start-ups and MSMEs up to an amount of Rs 10 crore, for innovation, research and development of Defence Technologies in the field of Defence and Aerospace.

- Public Procurement Policy for MSEs Order 2012, notified by Ministry of Micro, Small & Medium Enterprises has also been adopted by all Defence PSUs.

- Department of Defence Production (DDP) conducts outreach programs in various parts of the country to interact with Industry Associations, Industry, especially MSMEs and academia, to spread awareness about the potential export opportunities. A scheme aimed to promote MSMEs in defence is in place. Under this scheme, conclaves/seminars are being organized in Tier-II and Tier-III cities across the country having strong industrial MSMEs presence with the support of the DDP.

- Regular interactions are taking place to settle the grievance of vendors at DPSUs. Defence Investor Cell has been opened in DDP to address the issues being faced by vendors especially MSME vendors.

Further, 137 contracts have been signed for capital procurement of defence equipment with Indian vendors including MSMEs. No separate data for MSMEs is centrally maintained in this regard. This information was given by Raksha Rajya Mantri Shri Ajay Bhatt in a written reply to Shri Kanakamedala Ravindra Kumar in Rajya Sabha.

Haryana Atmanirbhar Textile Policy to be rolled out soon

Haryana Atmanirbhar Textile Policy 2022’ will be soon implemented in the state involving an investment of around ₹4,000 crore and providing employment to 20,000 youth, said Haryana Deputy Chief Minister Shri. Dushyant Chautala on 26.07.2022. He gave this information after a Cabinet Sub-Committee meeting held at Haryana Bhawan in New Delhi to discuss the policy draft. Haryana Agriculture and Farmers’ Welfare Minister Shri. Jai Prakash Dalal and Labour and Employment Minister Shri. Anoop Dhanak were also present.

The Deputy Chief Minister said that the draft of the policy was discussed by the Cabinet Sub-Committee and this would now be placed before the cabinet for its approval. He said that various goals of the policy such as entrepreneurship expansion, investment, employment generation, grants, textile parks and other relevant topics were discussed in the meeting.

Under this policy, technical textiles will be specially encouraged and expanded, said Shri. Chautala, adding that promotion of synthetic fibre and regenerated fibre units had also been included in it.

Shri. Chautala said investors were coming forward to set up industries in the State for the past few years since the government has taken several steps to improve the industrial environment. Haryana has been ranked in the top achiever’s category in the fifth edition of ‘State Ease of Doing Business’ released by the Ministry of Commerce and Industry, he said.

[Tamil Nadu government will soon unveil a new Startup and Innovation policy to encourage new startups targeting the socio-economic development of the State, Chief Minister Shri. M. K. Stalin said on 02.08.2022. In the process he would ensure the involvement of new entrepreneurs and youth into the economic mainstream and also work towards achieving the USD 1 trillion economy, he said.

“My dream is Tamil Nadu should become the numerous investment destination in South Asia. Development has been planned to ensure adequate representation of regions and districts in the State,” Shri. Stalin said while speaking at the Tamil Nadu Startups and Incubators meet. “The Dravidian model of governance aims at striving with the noble aim of making everything available to all,” he said.

Since his government came to power, six investor conclaves were organised with an investment commitment of Rs 2.20 lakh crore, he said. Previously, the Startup and Innovation Policy was launched in 2019 for enabling the ecosystem for startups and make the State a global hub in the sector.

High demand for interactive electronic textiles has encouraged the Italian producer of technical-industrial yarns CoatYarn to expand with a new product range - thermoplastic polyurethane yarns enhanced with graphene nanotubes by OCSiAl, Luxembourg. This solution is widely applicable in various electrostatic-sensitive sectors such as healthcare, mining and oil and gas. One of the end market applications is electroconductive textile gloves with touch-screen functionality that can be used by the operators of machines.

Just 0.2% by weight of graphene nanotubes is enough to transfer unmatched electrical and thermal conductivity to the yarns, providing them with a volume resistivity of 104 Ohm/cm. The enhanced durability and reliability of the coating provides the foundations for developing safe and functional personal protective clothing, conveyor belts and textile bags. The flexible e-textiles with the ability to receive, store, and transmit data and signals can be considered sensors and be used in health care for measuring temperature, biopotentials, acoustic, ultrasound, pressure and radiation. The electroconductive network created by graphene nanotubes inside the fabric, for example, allows yarns to be heated, turning textiles into a promising multifunctional material for automotive and building interiors, and sportswear.

[Source: https://papernewslive.com/luxembourg-based-ocsial-coatyarn-develop-smart-textile-technologies/123019/]

Scientists at the Fraunhofer Institute for Ceramic Technologies and Systems IKTS in Germany have created a textile vest with integrated acoustic sensors that helps in monitoring the lung function of patients with severe respiratory diseases. The Pneumo.Vest features a technology via which noises in the lungs are recorded and these signals are converted and displayed visually using software.
The Pneumo.Vest project enables the continuous monitoring of patients outside of intensive care units (ICUs). Piezoceramic acoustic sensors are fixed on the front and back of the vest to detect and record even the smallest noise produced by the lungs in the thorax. The signals are then registered by a software program, which also electronically amplifies and visually depicts them on a screen.

Moreover, the Pneumo.Vest’s system gathers and stores the data permanently, so that examinations can be scheduled at any time and even in the absence of hospital staff. This technology provides added value because it allows for the lungs to be monitored continuously in the same way as a long-term ECG, even if the patient is not attached to machines in the ICU but has instead been admitted to the general ward. The first tests of Pneumo.Vest with staff at the University Clinic for Anesthesiology and Intensive Therapy at the University of Magdeburg have been successful.

Source - https://papernewslive.com/researchers-in-germany-have-invented-a-high-tech-textile-vest-for-lung-patients/157327/

MACHINERY - Single-sided functional finishing

Low Energy Textile Technology improves Cost & Sustainability of Workwear Functional Finishing

Alchemy Technology, the UK innovator of waterless, low energy, textile dyeing technology, has achieved huge energy and water savings using their Novara™ textile finishing machine to apply water and stain repellent to 280gsm polycotton twill workwear fabric. Using Alchemy’s NovaraTM single sided digital finishing process to apply HeiQ Barrier HM-C6 water and stain repellent chemistry provides a 52% water reduction and 46% energy saving, compared to the traditional padding method of fabric finishing. By enabling a lower wet add-on, 31% compared to 65% for padding, and higher concentration of chemistry, this breakthrough offers workwear manufacturers a more sustainable and lower cost solution. External laboratory tests verified that the HeiQ Barrier HM-C6 water and stain repellent when applied using the Alchemie Novara™ system achieved high functional performance even after 20 washes.

Alchemy’s Novara™ low energy, single sided digital application system applies functional finishes at up to 20 times the concentration of traditional processes, with a more even application and higher quality - saving cost and improving efficiency. Adding functional finishes to a single side of fabric, rather than saturating the entire fabric, has the added advantage of keeping chemicals, such as insect repellent, to the outer side of a garment, away from the wearers skin. This is a particularly important feature for workwear in industries, such as the military, that need to treat uniforms with permethrin. The energy savings from the Novara™ system significantly reduces the high costs involved in textile finishing - whilst also reducing CO2 emissions and pollution.

US based AAwipes has announced a new line of lint-free cleanroom wipes that are perfect for various contamination control needs. They are perfect for use in critical environments such as cleanrooms, hospitals, laboratories, and data centers. Lint-free polycellulose wipes (I & II) are made from a hydroentangled, nonwoven blend of 55% cellulose and 45% polyester, with no chemical binders, are contained. There are two types of wipes available based on density, 68 gsm (I) and 56 gsm (II). This fabric blend combines a natural fiber’s highly absorbent properties with synthetic polyester’s cleanliness and strength. As a result, it has low articulated and extractable counts, superior oil absorbance, abrasion, and chemical resistance.

AAWipes lint-free cloth wipes (III) are constructed from light-weight, 100% continuous filament polyester in a double-knit, no-run, interlock pattern with laser cut with ultrasonically sealed edges. This wiper is a clean and moderately absorbent wiper with low levels of particulate and extractable counts. They are treated by laser cut with ultrasonically sealed edges, laundered in ultra-pure water, and hermetically sealed. They are chemical compatible with IPA, ethanol, and other common solvents. AAWipes lint-free ESD antistatic polyester cleanroom wipes (IV) are high-quality virgin polyester fibers with conductive carbon yarns (dark lines throughout the wipers) that are continuously filaments throughout the no-run knit construction process. The wipers can dissipate electrical charges effectively, making them a perfect wiping choice for sensitive surfaces and processes. The anti-static wipes prevent the build-up of electrostatic charge via the carbon fiber strands that dissipate electrostatic charge. These wipes are ideal for wiping sensitive electronic components and tools.

Sticky mats (V) are lint-free wipes that are easy to apply and remove. They are made of premium PVC film coated with eco-friendly water-based adhesive. The mats are 0.5 micrometers thicker than ordinary sticky mats, so they are more effective particle reducing surface to reduce traffic-borne contaminants. They use water-based, eco-friendly adhesive materials. With lint-free cloth, they can effectively remove around 95% of particles in the 0.30-micron range.

SPARKLE ECO INNOVATIONS PVT. LTD., GUJARAT
Sparkle Eco Innovations having manufacturing facility with Fully Automatic Sanitary Pad manufacturing m/c. They are US FDA registered and have ISO 13485 and ISO 9001 certification. They are also Made Safe, Allergy certified, vegan-friendly certified, Australian certified toxic-free, cruelty-free certified and NetZero Certified. They manufacture Biodegradable and Sustainable Sanitary Pads - 1 million pcs/day.

USTER TECHNOLOGIES INDIA PVT. LTD., COIMBATORE
Uster Technologies India is the subsidiary company of Uster Technologies AG Switzerland and responsible to provide sales, after sales and application support to its customers in India and Nepal. Uster technologies AG is the leading provider of quality management solutions from fiber to fabric. This includes systems for quality management, laboratory testing and in-line process control for fibers, staple and filament yarns, fabric inspection as well as value-added services. They have machineries, useful to technical textile industry, such as Automated Fabric Inspection System - Uster Q-Bar 2 & Uster EVS Fabriq Vision and Uster EVS Fabriq Shade for shade measurements.

WINNER NIPPON LEATHERETTE PVT. LTD.
Winner Nippon Leatherette, a unit of Raglan Group, have fully equipped plants of dry processed Polyurethane (PU), wet processed PU Synthetic leather lines, printing m/c, embossing m/c and tumbling m/c. They manufacture highly consumed technical textile PVC and PU synthetic leather of international standards - 48 lakh mtrs/year for various TT segments viz. Buildtech, Mobiltech, Packtech & Sportech.

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Bank Details -
A/C. Name - INDIAN TECHNICAL TEXTILE ASSOCIATION
Bank Name - Bank of Baroda,
Chakala Branch, Mumbai - 400093.
Current Account No - 0422020000491
IFSC Code - BARB0CHAKAL
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<td><strong>11TH AGRI ASIA (Exhibition on Agriculture Technology)</strong></td>
<td>Gujarat, India</td>
<td><a href="https://www.agriasia.in/">https://www.agriasia.in/</a></td>
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<tr>
<td>23-25 September 2022</td>
<td><strong>8TH EDITION NONWOVEN TECH ASIA</strong></td>
<td>Delhi, India</td>
<td><a href="https://www.nonwoventechasia.com/">https://www.nonwoventechasia.com/</a></td>
</tr>
<tr>
<td>24-25 November 2022</td>
<td><strong>OSH INDIA</strong></td>
<td>Mumbai, India</td>
<td><a href="https://www.oshindia.com/mumbai/">https://www.oshindia.com/mumbai/</a></td>
</tr>
<tr>
<td>02-03 February 2023</td>
<td><strong>FILTREX INDIA</strong></td>
<td>New Delhi, India</td>
<td><a href="https://www.edana.org/events/filtrex/filtrex-india">https://www.edana.org/events/filtrex/filtrex-india</a></td>
</tr>
<tr>
<td>18-19 February 2023</td>
<td><strong>OUTLOOK™ (Nonwoven, Personal care and Hygiene Conference)</strong></td>
<td>New Delhi, India</td>
<td><a href="https://www.edana.org/events/outlook/outlook-india">https://www.edana.org/events/outlook/outlook-india</a></td>
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<tr>
<td>22-24 February 2023</td>
<td><strong>TECHNOTEX 2023</strong></td>
<td>Mumbai, India</td>
<td><a href="https://www.technotexindia.in/">https://www.technotexindia.in/</a></td>
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<tr>
<td><strong>INTERNATIONAL EVENTS</strong></td>
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<tr>
<td>04-07 September 2022</td>
<td><strong>7TH EUROPEAN GEOSYNTHETICS CONFERENCE</strong></td>
<td>Warsaw, Poland</td>
<td><a href="https://eurogeo7.org">https://eurogeo7.org</a></td>
</tr>
<tr>
<td>14-15 September 2022</td>
<td><strong>CONTAMINATION &amp; GEOTECH EXPO</strong></td>
<td>Birmingham, UK</td>
<td><a href="https://www.contaminationexpo.com">https://www.contaminationexpo.com</a></td>
</tr>
<tr>
<td>21-22 September 2022</td>
<td><strong>INTERNATIONAL COMPOSITES SUMMIT (ICS)</strong></td>
<td>London, UK</td>
<td>[<a href="https://www.internationalcomposites">https://www.internationalcomposites</a> summit.com](<a href="https://www.internationalcomposites">https://www.internationalcomposites</a> summit.com)</td>
</tr>
<tr>
<td>12 October 2022</td>
<td><strong>IFAI EXPO 2022</strong></td>
<td>North Carolina, USA</td>
<td><a href="https://ifaiexpo.com/">https://ifaiexpo.com/</a></td>
</tr>
<tr>
<td>17-20 October 2022</td>
<td><strong>CAMX 2022 (The Composites and Advanced Materials Expo)</strong></td>
<td>California, US</td>
<td><a href="https://www.thecamx.org/">https://www.thecamx.org/</a></td>
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<tr>
<td>DATES</td>
<td>EVENTS NAME</td>
<td>PLACE</td>
<td>WEBSITE</td>
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<tr>
<td>31 October-04 November 2022</td>
<td>GEOASIA7 2022 (7th Asian Regional Conference on Geosynthetics)</td>
<td>Taipei, Taiwan</td>
<td><a href="http://www.geoasia7.org/">http://www.geoasia7.org/</a></td>
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<tr>
<td>08-09 November 2022</td>
<td>FILTREX</td>
<td>Berlin, Germany</td>
<td><a href="https://www.edana.org/events/filtrex/filtrex-europe">https://www.edana.org/events/filtrex/filtrex-europe</a></td>
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<tr>
<td>14-17 November 2022</td>
<td>HYGIENIX 2022</td>
<td>Louisiana, USA</td>
<td><a href="https://www.hygienix.org/">https://www.hygienix.org/</a></td>
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<td>16-17 November 2022</td>
<td>FILTREX ASIA</td>
<td>Shanghai, China</td>
<td><a href="https://www.edana.org/events/filtrex/filtrex-asia">https://www.edana.org/events/filtrex/filtrex-asia</a></td>
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<tr>
<td>20-24 November 2022</td>
<td>ITMA ASIA + CITME</td>
<td>Shanghai, China</td>
<td><a href="https://www.itmaasia.com/">https://www.itmaasia.com/</a></td>
</tr>
<tr>
<td>10-12 May 2023</td>
<td>TECHTEXTIL NORTH AMERICA</td>
<td>Atlanta, Georgia</td>
<td><a href="https://techtextil-north-america.us.messefrankfurt.com">https://techtextil-north-america.us.messefrankfurt.com</a></td>
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<tr>
<td>08-14 June 2023</td>
<td>ITMA 2023</td>
<td>Milan, Italy</td>
<td><a href="https://itma.com/">https://itma.com/</a></td>
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<tr>
<td>17-20 July 2023</td>
<td>WORLD OF WIPES (WOW) (International Conference)</td>
<td>Atlanta, Georgia</td>
<td><a href="https://www.worldofwipes.org/">https://www.worldofwipes.org/</a></td>
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<tr>
<td>30 July-04 August 2023</td>
<td>ICCM 2023 (International Conference on Composite Materials)</td>
<td>Belfast, UK</td>
<td><a href="https://iccm23.org">https://iccm23.org</a></td>
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<tr>
<td>17-21 September 2023</td>
<td>12th INTERNATIONAL CONFERENCE ON GEOSYNTHETICS (ICG)</td>
<td>Roma, Italy</td>
<td><a href="https://www.12icg-roma.org/">https://www.12icg-roma.org/</a></td>
</tr>
<tr>
<td>10-12 October 2023</td>
<td>FILTXPO™ 2023</td>
<td>Chicago, USA</td>
<td><a href="https://www.filtxo.com">https://www.filtxo.com</a></td>
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<tr>
<td>24-27 October 2023</td>
<td>A+A 2023</td>
<td>Germany</td>
<td><a href="https://www.aplusa-online.com/">https://www.aplusa-online.com/</a></td>
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<td>In 2023 (Date yet to be announced)</td>
<td>INTERTEXTILE SHANGHAI HOME TEXTILES</td>
<td>Shanghai, China</td>
<td><a href="https://intertextilehome.hk.messefankfurt.com/china/en.html">https://intertextilehome.hk.messefankfurt.com/china/en.html</a></td>
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<tr>
<td>22-25 April 2024</td>
<td>IDEA 2024</td>
<td>Florida, USA</td>
<td><a href="https://www.ideashow.org">https://www.ideashow.org</a></td>
</tr>
<tr>
<td>04-08 June 2024</td>
<td>ITM 2024 (International Textile Machinery Exhibition)</td>
<td>Istanbul, Turkey</td>
<td><a href="https://www.itmeshibition.com/itm2024">https://www.itmeshibition.com/itm2024</a></td>
</tr>
<tr>
<td>17-20 June 2024</td>
<td>WORLD OF WIPES (WOW) (International Conference)</td>
<td>Minneapolis, USA</td>
<td><a href="https://www.worldofwipes.org/">https://www.worldofwipes.org/</a></td>
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