ITTA LAUNCHED

"HALL OF FAME - A TALK SHOW"
ON ITTA's FOUNDATION DAY - 20th JANUARY

First Guest:
Mr. Mohan Kavrie

"INTERACTIVE WORKSHOP ON
STANDARDISATION OF TECHNICAL
TEXTILES" JOINTLY HELD BY BIS &
ITTA

NTTM (MOT) APPROVED 108.6 CR.
FUND FOR R&D PROJECTS ON
TECHNICAL TEXTILES. ALL PROJECTS
WILL HAVE INDUSTRY PARTNERS
Empowered by Innovation
Switch to India's Extremely Robust textile machine manufacturing company and Experience the highest level of Quality, Productivity and Cost efficiency.

TECHTRONIC
Sectional Warper for Technical Textile

For Delicate to Heavy Industrial Yarn
Maximum Tension: Up to 60000 N

www.prashantgroup.com

Excellence in weaving Preparatory
NEL Lifecare Products (India) Private Limited is a Wholly Owned Subsidiary of the Narendra Emporis Limited. The Promoters of the "NARENDRA" Group has started its Business in Textiles since 1997 they took a prominent place in the Domestic as well as in International Market in the Textiles Business with the Brand Name "NARENDRA", thereafter the Promoters and Board of the Narendra Emporis Limited has decided to diversify its business into the new emerging field with modern ideas in Technical Textiles namely Converter/Manufacturing of Disposable Hygiene Products such as Adult Diaper, Adult Insert Pad, Underpad. To execute the modern ideas of the Promoters and Board of the Narendra Emporis Limited has Incorporated a Wholly Owned Subsidiary i.e. NEL Lifecare Products (India) Private Limited in March 2021. On the basis of research and analysis of our technical team, The Board has decided to introduce an Adult Care Hygiene Products such as Adult Diaper, Adult Insert Pad, Underpads with the brand name MyGuard TM to our proposed customers to help them with medical issues, incontinence and lead a comfortable life.

we are coming up with 5 products i.e.,
Adult Diaper, Adult Insert Pad, Underpads, Baby Matty, Pet Matty.

**ADULT DIAPER:**
Designed to accommodate people with moderate to heavy incontinence, and especially if the patient is bed bound. Suitable for men or women to wear. Our Adult Diaper can give them that sense of security and safety and help them resume normal activities.

1) Super Absorbent Polymer & Fluff Pulp provides superior absorbency, retaining moisture and locking away wetness.
2) Standing Leak-Guards provides extra protection to prevent leakage.
3) Refastenable Frontal Tapes for multiple times applications to get a perfect fit.
4) With printed wetness indicator OR white PE film.
5) Odour-Control polymer gel quickly locks away any unpleasant odour.

**ADULT INSERT PAD:**
Designed to accommodate people with light bladder leakage. Suitable for men or women to wear in their own underwear, disposable diaper or disposable pants and securely held in place with an adhesive strip.

1) Super Absorbent Polymer with ADL for fast distribution, retain moisture and lock away wetness.
2) Standing Leak-Guards provides extra protection to prevent leakage.
3) Adhesive Strip for stay-in-place security.
4) Odour-Control polymer gel quickly locks away any unpleasant odour.

**UNDERPAD:**
Designed to provide protection to not only your skin, but also your chair, your bed, your car seat and other important surfaces!

1) 100% natural fluff pulp and SAP provides superior absorption.
2) Embossed quilted pattern for fast distribution.
3) Waterproof back sheet.

You are Safe and Dry with us.

manufacturer and marketed by:

NEL LIFECARE PRODUCTS (INDIA) PRIVATE LIMITED

4th Floor, Vrundavan Apartment, Behind Poovara Telecom, Astron Chowk, Rajkot - 360001, Gujarat, INDIA.
www.nellifecareproducts.com  care@nellifecareproducts.com
FOR INQUIRY: +91 77789 73500
Indian Technical Textile Association (ITTA) was established on the 20th January 2010. This year ITTA celebrated its Foundation Day with a Launch of "ITTA - HALL OF FAME - A Talk Show" held on 20th January 2022 on Virtual Platform which was lead by Shri. Amit Agarwal, Chairman, ITTA in Conversation with Top Industrialists on Technical Textiles. The ITTA Talk Show series will continue on a regular basis.

The First Guest to the talk show was Shri. Mohan Kavrie, an IITian, a Technocrat, an Innovator and an Inspiration Class apart, Chairman of Supreme Nonwovens Industries Ltd. one of the Pioneers of the Nonwoven Industry, which received very good response from the industry.

Shri. Amit Agarwal welcomed the Guest, ITTA members & Stakeholders from the Technical Textile industry present in the talk show. Firstly, he talked about the steps taken by the Government to boost the technical textile industry and the emerging opportunities. He then started talking to Shri. Kavrie asked him several questions about his journey to become the top leader and his contributions for the growth of nonwoven industry. There were interactions with the participants as well, who asked several questions.

Shri. Mohan Kavrie addressed all questions in a very interesting manner and the key questions are mentioned below -

- How & when did you conceive the idea of starting Non-Woven Business?
- Could you imagine at conceiving stage, that this non-woven business would be of the current size?
- How did you build support structure to start this business?
- How could you find right Technical Resources & Manpower in that Era?
- What Challenges did you face while realizing your dream?
- What factors kept you motivated to stay in this business for such long period?
- Where do you see this non-woven business 5 & 10 year down the line?
- What could have been better in your view while building this business?
- Is the Non-woven business still attractive enough to stay invested or making new investment?
- Do you have any regrets about any of your decisions in the past?
- How do you rate current government policy frame work in promoting Technical Textiles?
- As a Thought Leader, “What is Next” in your mind?

The feedback from the participants was very encouraging & wonderful and most of them mentioned that they have learned a lot from Shri. Mohan Kavrie's journey and his working experience, also suggested that ITTA should continue the show. At the end of Talk Show, Shri. Avinash Misar, Vice-Chairman and Dr. Anup Rakshit, ED, ITTA presented a memento of “ITTA - Hall of Fame” to Shri. Mohan Kavrie, as shown in the picture.
The Indian Technical Textile Association (ITTA) jointly with Bureau of Indian Standards (BIS) organized the "INTERACTIVE WORKSHOP ON STANDARDISATION OF TECHNICAL TEXTILES" on 02nd February 2022 on Virtual Platform. The workshop received overwhelming response and attended by more than 150 delegates from the technical textile Industry, COEs, Textile Colleges & Universities and Senior Officials from BIS Regional Offices.

Shri. Amit Agarwal, Chairman, ITTA welcomed the Experts & Speakers from BIS, Senior Officials from all Major Regional Offices of BIS all over India, ITTA members & other Stakeholders from the Technical Textile (TT) industry present in the interactive workshop. He spoke how the Product and Process Standardization is very important and also pointed out that ITTA & its members significantly contribute in the process of Indian Standard development for last 5-6 years. More than 40 Members are active in 10 BIS Sub-Committees on Technical Textiles. He also observed that there is significant improvement in developing & publishing IS standards at a much faster pace as compared to previous years. He informed that ED-ITTA heads many Panels formed by BIS where specific domain knowledge is required to formulate the Indian standards. He mentioned that there are further improvements are required such as still in many purchasers in Private & Govt Sectors are using International Stds. in their Tenders/ purchase contracts. They should use IS standards. Product Certification process need to be made more user friendly with ease of operations & reduced timeline.

Speaking on the event, Shri. Jayanta Roy Chowdhury, Scientist-G & DDG (Standardization-I), BIS said that this interaction will pave the way for the collaboration with the industry and research institutes. He pointed out the importance of standardization in technical textiles. He emphasized that there is huge potential for TT because of large demand gap which is to be met in terms of utility of product and consumption. In this regard, the Govt. & MOT is also encouraging & promoting the technical textile industry with the different schemes such as PLI, NTTM, etc. He informed that standards provide solution in terms of what is expected for the products, its characteristics, performance and help in facilitating market access in trade. Therefore, when we talk about promoting the TT sector, we have to look into standard formation. Because of this BIS has started emphasizing on the development of standards with the support & involvement of TT industry. He said that till now we have developed around 500 IS on technical textiles. He also mentioned that BIS has been engaged in the international standards work with ISO.

TECHNICAL SESSIONS -

Eminent Speakers from BIS enlightened the participants on the following major aspects - Standardization Process, Committee Structure and Recent Initiative By BIS, BIS Conformity Assessment Schemes on Product & Process Certification, Status of Standardization in Technical Textile Segments and Speciality Fibers, BIS Services Available all Over India and Future Needs & Expectations from the Technical Textile Industry. The Technical Sessions were moderated by Dr. Anup Rakshit, Executive Director, ITTA.

"Industry's Contribution on Developing Indian Standards on Technical Textiles" was presented by Dr. Anup Rakshit, ITTA. He mentioned about the ITTA's prime focus on Product & Process Standardization by actively involving stakeholders, encourage them to participate in std development process, industry experts taken as members in BIS sub-committees, help BIS to get industry data &

---

ITTA E-Bulletin

Jan-Feb, 2022 6
prepare draft stds and created standardization cells on all technical textile segments. He pointed out that ITTA contributes in Identification of Products/Testing Standards & Draft Preparation for Development of BIS Standards. ITTA Secretariat and more than its 40 members represent Ten BIS Sub-committees on Technical Textiles. As per the request from BIS, ITTA formed 10 “Standardization Cells” taking key members from the 13 TT Segments to strategize the stds development in TT sector, identify the needs and priorities of the industry, to facilitate their engagement & participation in stds development both nationally and internationally and to promote implementation of standards.

Industry analysis showed that the stronger TT Segments on standardization are- Geosynthetics, Agrotextiles, Medical Textiles, Protective textiles & Packaging textiles which are ahead of other segments, namely- Industrial Textiles, Building & Constructional Textiles, Mobiltech/Automotive Textiles, Composites and Speciality Fibres & Smart Textiles, he said.

Shri. J. K. Gupta, Head (Textiles) spoke about the “Standardization Process, Committee Structure and Recent Initiative by BIS. He explained in detail about the overview of textile departments i.e., Total Indian Standards published- 1435, Standards on Technical Textiles- about 500, Product under certification- 59 and Total No. of Sectional Committee- 26. The committee is structured by governing council, executive committee, standards advisory committee & division council for Advisory & Administrative Work and sectional committee, sub-committee & panel/working groups for Technical Work. At present there are 15 Division Councils in BIS such as Textiles (TXD), Civil Engineering (CED), Petrochemical, Coal & Related Products (PCD), Production and General Engineering (PGD), etc. Functions of Division Council (DC) are advising on the subject areas, set up sectional committee, approve proposals for work and study the work of international organizations. Sectional Committee is appointed by DC for the preparation of a particular standard or group of standards. It consists of members from Manufacturers/industry associations, Users, Govt. dept., Academic institutions, Consultants, etc. Technical Committees under TXD are 26. He also highlighted about the process of standards development at national level i.e., Stage 1- New Work Item Proposal, Stage 2- Working Draft, Stage 3- Preliminary Draft, Stage 4- Wide Circulation, Stage 5- Finalized Draft and Stage 6- Published as Indian Stds. He talked about the New Initiatives taken by BIS on Stds Development- i) Digitization of Standardization Activity in BIS (MANAKONLINE.IN), ii) Online Commenting: Drafts & Standards, iii) Online Proposals of New Subjects, iv) Webinars with Stakeholders, v) Engagement of Consultants, vi) Strategic Roadmap, vii) Access to Stds, viii) Creation of Standardization Cells and ix) Integration of Standardization in Educational Curriculum.

Shri. Aditya Das, Scientist-D, BIS presented the topic on “BIS Conformity Assessment Schemes on Product & Process Certification”. He mentioned about the BIS Conformity Assessment Regulations, 2018. Several Conformity Assessment Schemes defined in the Regulations. Some Important schemes are: Scheme-I: Product Certification (Over 39000 licences ~ 1100 standards across most product categories), Scheme-II: Registration (Over 19000 licences~45 standards mostly electrical and electronic products), Scheme-III: Management System Certification (Quality Management System - IS/ISO 9001, Environmental Management System-IS/ISO 14001 etc.) & Scheme IX: Product, Process and System Certification (Milk and Milk products) - New. The Product Certification Scheme is a Type 4 Conformity Assessment Scheme as per ISO/IEC 17067:2013. Certification Process (Manakonline) = Option 1- 90 days (application submission without test report) & Option 2- 30 days (application submission with test report of 3rd party lab). Nearly 800 licences granted for more than 60 products. Important developments in Product Certification are Cluster Laboratories - in-house testing facilities to MSME manufacturers and Concessions in Marking Fee - concession of 20% on minimum marking fee to MSME manufacturers across all products and additional 10% concessions to units located in North Eastern Region states.


“Status of Standardization in the area of Protech, Packtech and Buildtech” was presented by Shri. Mayur Katiyar, Scientist-B, BIS. He highlighted about the Standardization in the field of Protective Textiles i.e., Textiles Protective Clothing Sectional Committee, TXD 32 under which Number of Standards Formulated: 60, Product Standards: 22, Code of Practice: 1, Method of Test: 36 & Others: 1. Important stds are IS 15809:2018 High visibility warning clothes, IS 16890:2018 Protective clothing for firefighters, IS 17051:2018 Bullet Resistant Jacket, etc. Stds under development - Extreme cold climate clothing, Aluminized fire proximity suits, Anti flash hoods for gunners, etc. Standardization in the field of Packtech i.e., Textile Materials Made from
Polyolefins Sectional Committee, TXD 23 under which Number of Standards Formulated: 19, Product Standards: 17, Method of Tests: 1 & Others: 1. Important stds are IS 14887:2014 HDPE/ PP woven sacks for packaging of 50 kg food grains, etc. Standards under development is Hermetically sealed storage bags. Standardization in Technical Textiles for Buildtech Applications Sectional Committee, TXD 34 under which Number of Standards Formulated: 7, Product Standards: 5, Terminology: 1 & Safety: 1. Important published stds are Camping tents, Industrial Safety nets, Micro fibers for use in cement-based matrix, etc. and Standards under development - Architectural Membranes, Hoarding and signage (Flex), Scaffolding nets, Acoustic fabrics, Insect nets for buildings etc.

**INTERACTIVE SESSION**

Interactive Session with Industry participants was held at the end of the technical session by ITTA & BIS together. Major points/views/suggestions raised by the participants are as follow - Does BIS have a National Standardization Strategy, How BIS std are fared in global stage i.e., other countries., Does BIS issue technical regulations or the Ministry, Do we have Cyto Toxicity & Skin Irritation to skin requirements in medical textile products as per BIS, How is BIS standard different from NIOSH and EN standard for face masks, What is status of market surveillance and sampling by BIS and what is the category for pharma & electronics uniforms. Expert Speakers from BIS had answered all the queries of participants and asked the participants to submit if they have any other queries and email their comments/views/suggestions to ITTA & BIS.

**FEEDBACK FROM THE PARTICIPANTS**

1. SRF LTD. - Very good insight to various standards by BIS team & thanks to ITTA in arranging this session.
2. RELIANCE - Thanks ITTA & BIS for this wonderful & informative webinar
3. SITRA - Very informative session on the standards in technical textiles
4. TRIVITRON HEALTHCARE - Very productive & insightful session
5. LOHIA GROUP - Very informative and phenomenal session.
6. SHINGORA TEXTILES - Wonderful session. We have good BIS standard specially on Medical Textiles.

---

**ITTA SIGNED MOU WITH INTERNATIONAL FINANCE CORPORATION (IFC)**

International Finance Corporation (IFC), a member of The World Bank Group is the largest global development institution focused on the private sector in developing countries. They help countries develop their private sectors in a variety of ways: Investing in companies, Mobilizing capital and Advising businesses and governments. Benefits of the MOU are: - PPE global advisory market-level work in India aims at creating and disseminating knowledge and includes activities that will focus on -

1. Increasing knowledge of national labs in India
2. Improving the understanding of key stakeholders on voluntary standards for non-medical masks
3. Increasing global knowledge on PPE topics through webinars and publications.
The data on export and import of 207 technical textile products/items is published as an indicator of foreign trade performance of technical textile industry in India.

**A. EXPORT PERFORMANCE**

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Segments</th>
<th>Nov 2020</th>
<th>Nov 2021</th>
<th>% Growth</th>
<th>Apr’20-Nov’20</th>
<th>Apr’21-Nov’21</th>
<th>% Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agrotech</td>
<td>65</td>
<td>58</td>
<td>-10%</td>
<td>416</td>
<td>438</td>
<td>5%</td>
</tr>
<tr>
<td>2</td>
<td>Buildtech</td>
<td>65</td>
<td>75</td>
<td>16%</td>
<td>425</td>
<td>550</td>
<td>29%</td>
</tr>
<tr>
<td>3</td>
<td>Clothtech</td>
<td>19</td>
<td>24</td>
<td>25%</td>
<td>128</td>
<td>209</td>
<td>63%</td>
</tr>
<tr>
<td>4</td>
<td>Geotech</td>
<td>159</td>
<td>166</td>
<td>5%</td>
<td>1069</td>
<td>1677</td>
<td>57%</td>
</tr>
<tr>
<td>5</td>
<td>Hometech</td>
<td>13</td>
<td>21</td>
<td>56%</td>
<td>104</td>
<td>172</td>
<td>65%</td>
</tr>
<tr>
<td>6</td>
<td>Indutech</td>
<td>151</td>
<td>188</td>
<td>25%</td>
<td>1089</td>
<td>1580</td>
<td>45%</td>
</tr>
<tr>
<td>7</td>
<td>Meditech</td>
<td>116</td>
<td>158</td>
<td>36%</td>
<td>764</td>
<td>932</td>
<td>22%</td>
</tr>
<tr>
<td>8</td>
<td>Mobiltech</td>
<td>106</td>
<td>97</td>
<td>-9%</td>
<td>804</td>
<td>1069</td>
<td>33%</td>
</tr>
<tr>
<td>9</td>
<td>Packtech</td>
<td>494</td>
<td>613</td>
<td>24%</td>
<td>3335</td>
<td>5406</td>
<td>62%</td>
</tr>
<tr>
<td>10</td>
<td>Protech</td>
<td>40</td>
<td>42</td>
<td>3%</td>
<td>256</td>
<td>348</td>
<td>36%</td>
</tr>
<tr>
<td>11</td>
<td>Sportech</td>
<td>19</td>
<td>29</td>
<td>49%</td>
<td>178</td>
<td>189</td>
<td>6%</td>
</tr>
<tr>
<td>12</td>
<td>Nonwovens</td>
<td>190</td>
<td>150</td>
<td>-21%</td>
<td>969</td>
<td>1136</td>
<td>17%</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td><strong>1437</strong></td>
<td><strong>1621</strong></td>
<td><strong>13%</strong></td>
<td><strong>9537</strong></td>
<td><strong>13706</strong></td>
<td><strong>44%</strong></td>
<td><strong>44%</strong></td>
</tr>
</tbody>
</table>

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

**ITTA Analysis on Monthly data (Nov’20 vs. Nov’21) of Top Three Growth Sectors -**

- **a) Hometech** - Key Products: Carpet Backing Fabrics, Gas Mantle Fabrics and Coated Fabrics
- **b) Sportech** - Key Products: Parachute Fabrics, Tent Fabrics, Mattress products and Sport Nets.
- **c) Meditech** - Key Products: Clinical Diapers, Panty Hose & Tights of synthetic fibres and Napkins and Napkin liners for babies.

**Figure 1 - Monthly Trend of Export Performance**

The above export figures show an increasing trend from month of August to October 2021, but then it showed a decrease in the month of November 2021.
B. IMPORT PERFORMANCE

(Value in INR Cr.)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agrotech</td>
<td>28</td>
<td>35</td>
<td>23%</td>
<td>150</td>
<td>257</td>
<td>71%</td>
</tr>
<tr>
<td>2</td>
<td>Buildtech</td>
<td>80</td>
<td>165</td>
<td>105%</td>
<td>527</td>
<td>906</td>
<td>72%</td>
</tr>
<tr>
<td>3</td>
<td>Clothtech</td>
<td>17</td>
<td>29</td>
<td>76%</td>
<td>78</td>
<td>177</td>
<td>126%</td>
</tr>
<tr>
<td>4</td>
<td>Geotech</td>
<td>108</td>
<td>154</td>
<td>42%</td>
<td>591</td>
<td>921</td>
<td>56%</td>
</tr>
<tr>
<td>5</td>
<td>Hometech</td>
<td>28</td>
<td>42</td>
<td>51%</td>
<td>210</td>
<td>208</td>
<td>-1%</td>
</tr>
<tr>
<td>6</td>
<td>Indutech</td>
<td>201</td>
<td>289</td>
<td>44%</td>
<td>1139</td>
<td>1822</td>
<td>60%</td>
</tr>
<tr>
<td>7</td>
<td>Meditech</td>
<td>61</td>
<td>102</td>
<td>68%</td>
<td>298</td>
<td>530</td>
<td>78%</td>
</tr>
<tr>
<td>8</td>
<td>Mobiltech</td>
<td>348</td>
<td>612</td>
<td>76%</td>
<td>1796</td>
<td>3603</td>
<td>101%</td>
</tr>
<tr>
<td>9</td>
<td>Packtech</td>
<td>43</td>
<td>66</td>
<td>54%</td>
<td>233</td>
<td>357</td>
<td>53%</td>
</tr>
<tr>
<td>10</td>
<td>Protech</td>
<td>33</td>
<td>47</td>
<td>41%</td>
<td>221</td>
<td>289</td>
<td>31%</td>
</tr>
<tr>
<td>11</td>
<td>Sportech</td>
<td>11</td>
<td>14</td>
<td>35%</td>
<td>57</td>
<td>84</td>
<td>48%</td>
</tr>
<tr>
<td>12</td>
<td>Nonwovens</td>
<td>119</td>
<td>182</td>
<td>53%</td>
<td>804</td>
<td>1231</td>
<td>53%</td>
</tr>
<tr>
<td></td>
<td>GRAND TOTAL</td>
<td>1077</td>
<td>1737</td>
<td>61%</td>
<td>6104</td>
<td>10385</td>
<td>70%</td>
</tr>
</tbody>
</table>

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

**ITTA Analysis on Monthly data (Nov’20 vs. Nov’21) of Top Three Growth Sectors -**

- **b) Nonwovens** - Key Products: MMF Wadding and Nonwovens of other filaments: weighing more than 25 g/sqm but not more than 70 g/sqm, yester & Nylon and Nylon Tyre Yarn
- **c) Buildtech** - Key Products: Textile Wall Coverings, Jute Tarpaulins and Tarfelt Roofing

*Figure 2 - Monthly Trend of Import Performance*

The imports of TT products have registered a steady growth from July to October 2021 but then it showed a decrease in the month of November 2021.
1. ENGAGEMENTS WITH CENTRAL & STATE GOVERNMENTS

1.1. PLI webinar for interaction with Industry representatives

PLI webinar for interaction with Industry representatives was held on 20.01.2022. The webinar was organized for sensitizing the industry regarding the PLI scheme for textiles and for clarification of issues. From ITTA, Shri. Anil Kumar Vasupillai, Additional Executive Director attended the meeting.

Highlights of the webinar are given below –

a. IFCI was appointed as the project management agency for PLI.

b. Notification on Technical Textiles HS codes to be included in the PLI will be announced soon.

c. Foreign companies can also directly invest in the PLI scheme.

d. All value addition like embroidery etc. for garments should be done in-house and no outsourcing.

e. Whichever year the unit reach the threshold turnover, that year will be the first year for incentive.

f. Regarding in-house captive energy sources as part of the investment will be clarified.

1.2 PROGRESS ON R&D FUNDING UNDER NTTM

A.20 R&D Projects approved on Technical Textiles

The 2nd meeting of Mission Steering Group (MSG) of National Technical Textiles Mission was held on 17.01.2022 through video conferencing under the Chairmanship of Shri. Piyush Goyal, Hon’ble Minister of Textiles. Dr. Anup Rakshit, ED, ITTA attended the meeting.

Following Key points were discussed and decided in the meeting –

a. In earlier mtg, 11 research projects worth Rs. 78.60 Crores were approved by the MSG of NTTM on 26th March 2021.

b. Further, Committee on Technical Textiles Research, Innovation and Development under NTTM first approved 20 R&D projects & then they were tabled in this meeting.

c. MSG approved these 20 research projects along with their funding pattern. Key Project areas are given below - 16 projects of Specialty fibres, 5 projects in Healthcare, 4 projects in Industrial and Protective, 3 projects in Energy Storage, 3 projects in Textile waste recycling, 1 in Agriculture and 4 projects in Geotextiles.

d. MSG committee asked the Research Institutes/CEOs to get Industry Partners.

e. If any ITTA member from Industry is interested to be partner of a R&D Project, please write to ITTA (ed@ittaindia.org) or contact ITTA office for more details.

B. ITTA’s 18 Research Topics approved on 5 segments of Technical Textiles by committee

NTTM requested ITTA, CII & FICCI to get R&D topics on the following Five segments i.e., (i) Sportech, (ii) Meditech, (iii) Mobiltech (iv) Bio-degradable Technical Textiles and (v) High performance fibers from Industry, R&D Institutions/COEs & submit to NTTM for review.

Five Stakeholders' meetings were held on 23.09.2021, 04.01.2022, 10.01.2022, 14.01.2022 & 04.02.2022 respectively through video conference under the chairman Shri. Sanjay Sharan, Joint Secretary, Ministry of Textiles and coordinated by Shri. Mukesh Sinha, Joint Mission Director, NTTM. The meeting was attended by Shri. Amit Agarwal, Chairman, Dr. Anup Rakshit, ED and Shri. Anil Kumar Vasupillai, AED, ITTA.

Accordingly, ITTA submitted and presented the 18 Research Topics identified by ITTA members - Industry and R&D Institutions/COEs in the respective technical textile segments as mentioned above. Committee approved the above 18 topics and also informed that NTTM, MOT will invite the Project Proposals and applicants can submit the proposals on these R&D Topics.
1. BIS Sectional Committee Meetings -

1.1 Industrial Fabrics Sectional Committee (TXD 33)

The 15th Meeting of Industrial Fabrics Sectional Committee, TXD 33 was held through video conferencing on 18.01.2022. The meeting was attended by Dr. Anup Rakshit, ED, Ms. Ruchita Gupta, Asst. Manager (Technical) from ITTA Secretariat and ITTA Members from Garware Technical Fibres Ltd., Kusumgar Corporates Pvt. Ltd., Pacific Harish Industries Ltd., SRF Ltd & Welspun Pvt. Ltd.

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

- **Ready for Publication** - Following Indian Standards were finalized for publication- i) IS 16926 - Nylon fabrics for industrial and special purposes, Machinery fabrics, wool - IS 16928 - Part 1 General, IS 16929 - Part 2 Clearer cloth, IS 16930 - Part 3 Sizing flannel, IS 16932 - Part 4 Plaiding cloth, IS 16933 - Part 5 Lapping cloth, IS 16936 - Cotton cover fabrics for fan belts and V-belts and IS 16937 - Cotton chafer fabrics

- **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.

- **Draft Preparation Stage** - Few drafts on Industrial Filters submitted by Welspun were Fibre specific, but committee decided that Standards of filters should be on end application basis. Hence, Welspun was asked to get users' specifications of Industrial Filter or provide the contact details of key users, e.g. coal, metal, thermal power industries, so that BIS can write to them & get their requirements.

  a) PSG College (COE-Indutech) & Welspun will contact the end users, convertors and manufacturers and provide the specific requirements and test methods for non-woven filter fabrics based on application.

  b) Since Asbestos is banned in India. TXD-33 will recommend to Textiles Division Council (TXDC) for the withdrawal of IS 13362: 1992 - Textiles - Asbestos yarn-Specification.

1.2 Technical Textiles for Buildtech Applications (TXD 34)

The 7th Meeting of Technical Textiles for Buildtech Applications Sectional Committee, TXD 34 was held through video conferencing on 04.02.2022. Attended by ITTA Secretariat and its member - Ms. Ruchita Gupta, Asst. Manager (Technical) and Reliance Industries Ltd.

Following points were discussed & decided in the meeting-

- **Ready for Publication** - Standards on IS 16481 - Synthetic micro-fibres for use in cement-based matrix is finalized for publication as Indian Stds.

- **Wide Circulation** - Draft standards on Acoustic Fabrics for Architectural Applications and Poly Vinyl Chloride (PVC) Coated Tensile Fabric Architectural Membranes are being issued under wide circulation.

- **Draft Preparation Stage** - Drafts revision on IS 10321:1982 - 50-kg tent and IS 11057:1984 - Industrial safety nets is under preparation.

2. BIS Panel Meetings -

2.1 Expert Panel meeting for Superabsorbent Polymer

The Expert Panel meeting for preparing the working draft on the Superabsorbent Polymer was held on 28.01.2022 through video conferencing under the convenorship of Dr. Saptarshi Ray, BPCL. As the member of panel, Dr. Anup Rakshit, ED, ITTA attended the meeting.

Key points of the meeting are as follows –

- Comments received from M/s SDP Global were discussed and decided to circulate draft to Panel members for one more week with ISO 24669 & if no comments received, finalized the working draft and issue the draft as a Preliminary draft to the PCD 12 Committee members for final decision.

- Recommended to drop the documents- PCD/12/16118 (Identical to ISO 19699-1:2017) and PCD/12/16119 (Identical to ISO 19699-2:2017) as the working draft is prepared on the basis of both the ISO standards only and there is no need to adopt both the ISO standards now.
The Union Minister for Finance and Corporate Affairs Smt. Nirmala Sitharaman presented the Union Budget 2022-23 on February 01, 2022.

- Budget allocation for Textile Sector for year 2022-23 is Rs 12,382.14 crore, 8.1% higher than the revised budget allocation of 2021-22 which stands at about Rs 11,449.32 crores.
- Rs 133.83 crores allocated for "Textile Cluster Development Scheme" and hence the total budget allocation for "Research and Capacity Building" in textiles increased by 73.4% to reach about Rs 478.83 crore.
- Rs. 15 crore each allocated for recently announced PLI Scheme and PM MITRA scheme.
- Rs 105 crore allocated towards “Raw Material Supply Scheme” which has been approved for implementation during period from 2021-22 to 2025-26.
- Rs. 100 crores allocated for National Technical Textiles Mission (NTTM).
- Budget 2022-23 has allocated Rs. 650 crores for Amended Technology Upgradation Fund Scheme (ATUFS), same as the revised Budget allocation for 2021-22.
- Budget has announced duty free imports of trimmings and Embellishments for bona-fide exporters of textile and leather garments.
- Import duty (including specific duties) on certain Fabric lines have been rationalised, specific duty on certain garments items have been removed.
- Presently Textile machinery for Knitting, Weaving are allowed to import at 5% concessional Customs duty. All these machines will attract 7.5% Import duty w.e.f 01.04.2023. However, machine viz Card Clothing (HS 84483100) will be removed from the list w.e.f 01.04.2022.
- Surcharge on Corporate tax pruned from 12% to 7%. Surcharge on transfer of long term capital gains tax capped at 15%.

Operational Guidelines for PM Mega Integrated Textile Region and Apparel Parks Scheme Finalized

The Ministry of Textiles (MOT) issued Notification on the setting up of Mega Integrated Textile Regions and Apparel Parks with a total outlay of Rs. 4,445 crores in a period of 5 years on the 20th October 2021. In this regard, MOT has issued further Notification No.FNo.20/1/2019-SITP dated 15th January 2022 on Operational Guidelines for PM MEGA INTEGRATED TEXTILE REGION AND
The Department of Chemicals and Petrochemicals under the Scheme for setting up of Centre of Excellence has approved eight Centres of Excellence in various reputed Government Institutions across the country since 2015. The details of these are as under:

Operational Guidelines for Production Linked Incentive (PLI) Scheme for Textiles Finalized

Government approved the Production Linked Incentive (PLI) Scheme for Textiles, with an approved outlay of Rs. 10683 crores over a five-year period, to promote production of MMF Apparel, MMF Fabrics and Products of Technical Textiles in the country. In this regard, the Operational Guidelines has been finalised and uploaded at --

http://texmin.gov.in/services/operational-guidelines-production-linked-incentive-pli-scheme-textiles-promoting-mmf-and

Ministry of Textiles will accept online applications under the PLI Scheme for Textiles w.e.f. 01st January, 2022, through PLI portal https://pli.texmin.gov.in/mainapp/Default. The application window will remain open from 01-01-2022 to 31-01-2022. Recently, Ministry of Textiles has extended the timeline for submission of applications under the PLI Scheme for Textiles till 14.02.2022.

Empowered Group of Secretaries (EGoS), as constituted and notified vide gazette No. P 36017/144/2020-Investment & Promotion dated 10.06.2020 issued by the DPIIT will monitor the implementation of the scheme. The composition of the EGoS for monitoring of PLI for Textiles will be as under: Cabinet Secretary, Chairperson
i. CEO, NITI Aayog, Member
ii. Secretary, Department for Promotion of Industry and Internal Trade, Member Convenor
iii. Secretary, Department of Commerce, Member
iv. Secretary, Department of Revenue, Member
v. Secretary, Department of Economic Affairs, Member
vi. Secretary, Ministry of Textiles


Centre of Excellence in Petrochemicals Sector

The Department of Chemicals and Petrochemicals under the Scheme for setting up of Centre of Excellence has approved eight Centres of Excellence...
<table>
<thead>
<tr>
<th>S. No</th>
<th>Institute</th>
<th>Name of project</th>
<th>Date of approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Indian Institute of Technology (IIT), Roorkee, Uttarakhand</td>
<td>Process Development, Waste water Management in Petrochemical Industries</td>
<td>February, 2019</td>
</tr>
<tr>
<td>2.</td>
<td>Central Institute of Petrochemicals Engineering &amp; Technology, Bhubaneswar, Odisha</td>
<td>Bio-engineered Sustainable Polymeric Systems</td>
<td>February, 2019</td>
</tr>
<tr>
<td>3.</td>
<td>National Chemical Laboratory, Pune, Maharashtra</td>
<td>Specialty Polymers for Customized Additive Manufacturing</td>
<td>February, 2019</td>
</tr>
<tr>
<td>4.</td>
<td>CSIR - North East Institute of Science &amp; Technology (CSIR- NEIST), Jorhat, Assam</td>
<td>Polymers, their Composites and Polymeric Membranes for Sustainable Development of Petroleum Industries</td>
<td>December, 2020</td>
</tr>
<tr>
<td>5.</td>
<td>CSIR-Indian Institute of Chemical Technology (CSIR- IICT), Hyderabad, Telangana</td>
<td>Polymer Coatings for Decorative, Protective and Strategic Applications</td>
<td>December, 2020</td>
</tr>
<tr>
<td>6.</td>
<td>Central Institute of Petrochemicals Engineering &amp; Technology, Bhubaneswar, Odisha</td>
<td>Manufacturing of Next Generation Bio-Medical Devices</td>
<td>December, 2020</td>
</tr>
<tr>
<td>7.</td>
<td>Indian Institute of Technology (IIT), Guwahati, Assam</td>
<td>Sustainable &amp; Innovative Design and manufacturing of polymer-TOYS (SUNDAR - TOYS)</td>
<td>February, 2022</td>
</tr>
<tr>
<td>8.</td>
<td>Indian Rubber Manufacturers Research Association, (IRMRA), Thane, Maharashtra</td>
<td>Design and Development for Value added Toys of Rubber and Allied Finished Products</td>
<td>February, 2022</td>
</tr>
</tbody>
</table>

The timeline to set up the CoEs is drawn and submitted by the Institute in the proposal. The Department after evaluation of the proposal approves appropriate timeline of the project which is for two to three years. The information was given by the Union Minister of Chemicals and Fertilizers, Shri. Mansukh Mandaviya in a written reply in the Lok Sabha. It is also available on the ITTA website- http://www.ittaindia.org/?q=node/2139 for more details.


GST Council defers rate hike on Textile's sector

Union Minister for Textiles, Commerce & Industry and Consumer Affairs and Public Distribution, Shri. Piyush Goyal has said that Industry and Government are partners in India’s growth story & now, is the time to be a Global Champion in Textiles by taking up bigger & bolder targets. Interacting virtually with the leaders of Textile Industry in India on 04.01.2022, Shri Goyal asked the Textile industry to work for achieving the target of $100 billion exports in a quicktime.

Thanking the Prime Minister Shri. Narendra Modi & Finance Minister for the decision to defer the increase of tax slab from 5% to 12% for Textiles, taken in the 46th meeting of GST council, Shri Goyal said that this is a new year gift for the Textile Industry. He added that the requests of industry stakeholders was considered in present challenging times when the sector is on the path of recovery. He also expressed his gratitude to the textiles leaders who remain connected with the Ministry with all
their grievances regarding raising the GST slab in MMF segment.

Shri Goyal also enumerated and suggested the steps of Vikas and Aatmanirbharta. Referring to PLI Scheme for Textiles, he said that PLI will increase the global footprint of India in MMF & Technical Textiles. He said Rs 10,683 cr. scheme will create 7.5 Lakhs direct Jobs. He said approval for 7 PM Mega Integrated Textile Region & Apparel (PM MITRA) Parks will attract cutting edge technology, investment & generate ~1 Lakh direct & ~2 lakh indirect employment per park.

Shri Goyal stated that continuation of RoSCTL scheme upto Mar 2024 will boost export competitiveness. He said RoDTEP for Textiles Products other than Apparel & Made Ups have been covered in RoSCTL. Removal of Anti-Dumping Duty on several key raw material e.g., PTA, Viscose Staple Fibre, Acrylic, Nylon is a boost to manmade fibre-based textiles industry, he added.

He mentioned that government is trying to get new markets for textiles through FTA. He informed that in all the ongoing negotiations with major countries like UK, UAE, Canada, EU, Australia there is a special focus on getting concessional duties for Textile products. Talking about SAMARTH Scheme, he said that 71 textile manufacturers, 10 industry associations, 13 state govt agencies & 4 sectoral organizations on-boarded to help skill development & training of ~3.45 lakh beneficiaries. Steps have been taken to on-board weavers on GeM platform to enable them to sell their products directly to Govt, ~1.50 Lakh weavers on-boarded, he added. Under Concessional Credit/Weaver MUDRA Scheme, for financial assistance, Shri Goyal said that Margin money assistance @20% of loan amount, (max Rs 25,000) per weaver & @ 20% of loan amount, (max Rs 20 lakh) per handloom organization is provided.

Shri Goyal further said that robust export numbers helping us realize the dream of “Local goes Global; Make in India for the world”. He informed that textiles export increased by 45%, to $16.7 bn in Apr-Nov 2021 w.r.t same period in Apr-Nov 2019.


The commerce ministry on 06.01.2022 as per the Trade Notice No. 29/2021-2022 restarted its COVID-19 helpdesk to help resolve issues of exporters and importers related to international trade such as customs clearance delays and banking matters amid rising coronavirus cases. It was first started in April 2021. The Directorate General of Foreign Trade (DGFT) took this initiative to monitor the status of exports and imports, and difficulties being faced by trade stakeholders in view of the surge in COVID-19 cases.

"DGFT has operationalised a 'COVID-19 Helpdesk' to support and seek suitable resolutions to issues arising in respect of international trade," the Directorate said in a trade notice to all exporters, members of trade, export promotion councils and commodity boards. The helpdesk will look into issues relating to import and export licensing, customs clearance delays and complexities arising thereon, import/export documentation, and banking matters.

"Helpdesk would also collect and collate trade related issues concerning other ministries/departments/ agencies of central and state governments and will coordinate to seek their support and provide possible resolution," it said. Stakeholders can submit information on the DGFT website about their issues on which support is required.

The status of resolutions and feedback may be tracked using the Status tracker under the DGFT Helpdesk Services. E-mail and SMS would also be sent as and when the status of these tickets are updated.

Truetzschler Nonwovens and Voith are thrilled to be the technology partner for Tufropes' unique nonwoven line based on pentamerous technology. The new installation relies heavily on Truetzschler/Voith core components for wet-laying, carding and hydroentangling. Proprietary refinements will allow Tufropes to produce any possible hydroentangled nonwoven material, including bio-degradable, natural fibre, eco-friendly high-performance nonwovens. Globally this would be a first industrial-scale pentamerous technology-based nonwoven project. Based in Gujarat, the line is expected to be commissioned next year.

Targeting the nearly untapped market of locally made, disposable nonwoven products, Tufropes decided to embark on the journey of establishing a progressive and sustainable nonwoven production line with pentamerous technologies. Truetzschler/Voith's carded/pulp (CP) technology combines a cost-effective, wet-laid pulp layer and a carded web layer from cellulosic fibres. Tufropes new production will deliver fully functional, affordable and 100% bio-degradable nonwovens.

MOT cleared 20 R&D Strategic Projects on Technical Textile under NTTM

Ministry of Textiles (MOT) cleared 20 strategic research projects on Technical Textiles worth INR 30 crores on 17.01.2022. These strategic research projects fall under the Flagship Programme 'National Technical Textiles Mission (NTTM),' Previously, 11 research projects worth INR 78.60 Crores were cleared by the MOT on 26th March 2021.

Amongst the 20 Research projects, 16 projects of Specialty fibres were cleared including 5 projects in Healthcare, 4 projects in Industrial and Protective, 3 projects in Energy Storage, 3 projects in Textile waste recycling, & 1 in Agriculture and 4 projects in Geotextiles (Infrastructure) were cleared.

Various leading Indian Institutes, Centres of Excellence and Government Organizations participated including IITs, DRDO, BTRA, among others in the session which cleared projects strategic for the development of Indian economy and a step in the direction of Atmanirbhar Bharat, especially in the Healthcare, Industrial and Protective, Energy Storage, Textile Waste Recycling, Agriculture and Infrastructure.

While addressing the esteemed group of Scientists and Technical Technologists, Shri Goyal said, “Industry and Academia connect is essential for the growth of research and development in the application areas of Technical Textiles in India. Building convergence with Academicians, Scientists and Researchers is the need of the hour.”

He also highlighted that the focus should be on the Internationally high value-added products and building a structure of brainstorming around problem statements. In addition, Inter-ministerial synergy is required for attracting mega research projects in the country.

[Source - https://worldoftechnicaltextile.com/tufropes-to-develop-unique-pentamerous-technology-based-on-truetzschler-nonwovens-voiths-cp-equipment/]

Bharat Petroleum Corporation Limited (BPCL) has set up a Super Absorbent Polymer technology (SAP) demonstration plant of 200 tonnes per annum at the Kochi Refinery was inaugurated recently. Using the in-house acrylic acid as feedstock, SAP technology is used in various hygiene products such as diapers and other incontinence products. BPCL R&D has developed the technology for production of Hygiene grade SAP. This process is in-house developed and patented by BPCL R&D. SAP is produced using the Acrylic Acid which is manufactured at the new Propylene Derivatives Petrochemical Complex at Kochi Refinery.

The technology, piping and instrumentation diagram, detail engineering and equipment specification were all in-house developed jointly by Corporate Research & Development Centre (CRDC) and Kochi Refinery team. No external agency was engaged in this project. Both the Polymerisation reactor and the drying units were shifted from BPCL’s CRDC at Noida. Other units like feed preparation unit, milling, coating and packing units were indigenously engineered and procured by the project team. The project was completed in just seven months.

SAP is a polymer that can absorb and retain extremely large amounts of a liquid relative to its own mass. Therefore, SAP is one of the key components in sanitary napkins, baby diapers, under-pads and adult diapers. Presently, manufacturing units of these products in India are importing SAP. A large number of napkins, diapers, and underpads are also being imported. Commencement of production of SAP at Kochi Refinery could result in setting up of ancillary industries based on SAP in the vicinity including at the KINFRA’s new Ambalamugal Petro Chemical Park.


Avalanche Protection Measures at Atal Tunnel, Rohtang, India

Atal Tunnel, Rohtang is the world's longest highway tunnel situated at a high altitude of over 3,000 m above mean sea level and built on an extremely challenging Himalayan terrain. The tunnel is prone to many natural hazards such as cloud bursts, earthquakes, landslides, rockfalls and avalanches.

The approach road to the main south portal (MSP) has been susceptible to avalanches which can cause considerable harm to the people and infrastructure. In line with the objective to achieve road connectivity throughout the year, Avalanche protection measures using flexible Snow Umbrella units also known as ErdoX Snow units have been undertaken by Maccaferri for Border Roads Organization. These are self-stable metallic structures in a pyramid shape, light weight, easy to transport and quick to install. ErdoX Snow units retain the accumulated snowpack, thus preventing the initiation of an avalanche. Maccaferri snow nets and snow fences considerably reduce the risk of avalanches.

In Austria, glaciers are considered a national treasure. During summer, glaciers are covered with geotextiles to preserve the natural ice and snow from the winter season. That way, energy expenditures for the production of artificial snow are reduced to a minimum.

Only nine of the numerous glaciers in Austria are operated actively. The operators face the challenge to align the economic interests with the ecological interests. The only way to combine these interests is to protect the glaciers by means of technical devices. To date there is no comparable alternative to covering the valuable Austrian glaciers with geotextiles. The white nonwoven fabrics reflect most sun radiation and form an insulating layer underground due to the voluminous structure.

From a technical point of view, this is the best way to conserve snow and ice from the winter months in terms of energy efficiency. The insulating layer for the glacier ensures a smooth beginning of the skiing season without having to produce artificial snow.

TenCate Geosynthetics only uses mechanically bonded continuous filament nonwovens from 100% UV-stabilized polypropylene (PP) to protect glaciers, as these have a considerably higher elongation strength compared to thermally bonded filaments.

TenCate Geosynthetics has developed a patented special form of mechanical bonding: hydroentanglement for nonwoven geotextiles. With this method, the needles are replaced by microscopically small water jets, which intrude the product by means of extremely high pressure. With this technique there are no needle breakages, and the bonding of the fibers is much gentler than with traditional techniques.

[Source - https://geosyntheticsmagazine.com/2021/12/30/geotextile-covers-preserve-glacier-resources/]

Germany based Freudenberg Performance Materials, a leading global supplier of high-performance geosynthetics, presents a new geogrid composite. Aimed at increasing the efficiency of construction projects, the product consists of a reinforcing grid bonded to a separation and filtration nonwoven geotextile. Customers can obtain the new geocomposite EnkaGrid MAX C as of now.
When weak subgrade soils are present, most infrastructure projects such as the construction of traffic areas require installation of two products: a geogrid to reinforce the granular layers of the subbase and a nonwoven geotextile for filtration and separation. This means that the same work has to be done twice to purchase two products, get them to the site, manage stock and lay the geogrid and the nonwoven geotextile. By providing the three required functions in one product, EnkaGrid MAX C substantially cuts complexity and costs for every stakeholder involved. Installation, for example, can be completed up to twice as fast.

EnkaGrid MAX C is made up of a biaxial geogrid bonded at intervals to a needlepunched nonwoven geotextile. The bonding method chosen guarantees optimal interlocking of granular soils with the geogrid. EnkaGrid MAX C can be ordered in tensile strengths ranging from 20 to 80 kN/m. It is supplied on rolls with a width of five meters.

According to the German Institutes of Textile and Fiber Research (DITF, Denkendorf), which offers expertise in fiber optic and piezoelectric sensors, smart fiber-reinforced plastics (FRP) have much to offer. DITF says there is also a need to consider how integrated arrays of sensors and actuators can actually be powered. With this in mind, DITF has developed a multilayer textile, an in-built “textile power plant” that can generate electrical energy using vibration, oscillation and temperature fluctuation. This would reportedly allow the smart composite used in an electric vehicle (EV), for instance, to harness power from its own motion. In general, the significance of the research project will add further capability to the composite, making it lightweight and smart, in addition to acting as its own power plant.

The textile reinforcement structure for the FRP provides for the generation of electrical energy using the piezoelectric effect to harness vibration, while the pyroelectric effect generates electrical energy from waste heat. Since polyvinylidene fluoride (PVDF) has both piezoelectric and pyroelectric properties and is available as a yarn, it is possible to create “textile generators” based on multilayer fabrics to be developed for both principles.

The functional principle is demonstrated in this project with a smart, self-powering composite. Vibration occurs through moving parts and friction, while waste heat is generated in EVs, for example, at the battery or, in the case of vehicles with conventional combustion engines, through the combustion of the fuel. The technology is expected to be used both in conventional cars with combustion engines, as well as EVs.

There are two specific areas of development in the project. The first is a piezoelectric energy harvesting system based on a multilayer fabric structure designed to harness vibration as an energy source.
Japan based Asahi Kasei announces that on October 21, 2021, Tongsuh Petrochemical Corp., Ltd. (TSPC), a wholly owned subsidiary in South Korea, acquired the widely recognized international certification ISCC PLUS1 for its acrylonitrile (AN) as a sustainable product, and production of AN using biomass propylene is scheduled to begin in February 2022.

AN is used as a raw material to make ABS resin, acrylamide, acrylic fiber, and various other chemical products. Recent demand growth has been particularly robust in the applications of carbon fiber as a material to reduce the weight of wind turbine blades, etc., and nitrile rubber for medical gloves whose use is expanding due to heightened awareness for hygiene.

In order to achieve carbon neutrality by 2050, measures to reduce CO2 emissions throughout the product chain of fossil fuel-derivatives are gaining momentum, and AN customers are increasingly seeking to manufacture products using AN with low CO2 emissions in order to contribute to GHG reduction. Under these circumstances, Asahi Kasei and TSPC sought to reduce CO2 emissions across the AN supply chain. The certification system enables TSPC to produce and sell AN using biomass raw material allocated by the mass-balance method.


RAW MATERIALS - Acrylonitrile as sustainable product & 100% plant-based Nylon fiber

Japan based Asahi Kasei announces that on October 21, 2021, Tongsuh Petrochemical Corp., Ltd. (TSPC), a wholly owned subsidiary in South Korea, acquired the widely recognized international certification ISCC PLUS1 for its acrylonitrile (AN) as a sustainable product, and production of AN using biomass propylene is scheduled to begin in February 2022.

AN is used as a raw material to make ABS resin, acrylamide, acrylic fiber, and various other chemical products. Recent demand growth has been particularly robust in the applications of carbon fiber as a material to reduce the weight of wind turbine blades, etc., and nitrile rubber for medical gloves whose use is expanding due to heightened awareness for hygiene.

In order to achieve carbon neutrality by 2050, measures to reduce CO2 emissions throughout the product chain of fossil fuel-derivatives are gaining momentum, and AN customers are increasingly seeking to manufacture products using AN with low CO2 emissions in order to contribute to GHG reduction. Under these circumstances, Asahi Kasei and TSPC sought to reduce CO2 emissions across the AN supply chain. The certification system enables TSPC to produce and sell AN using biomass raw material allocated by the mass-balance method.

Toray Industries, Japan, has developed a nylon 510 fibre that incorporates 100% biobased synthetic polymer content as defined under ISO 16620-1: 2015, the international standard for the biobased content of plastics. Ecodear N510, will be the first 100% plant-based nylon fibre in Toray’s Ecodear lineup.

The company has created diverse potential applications for Ecodear N510 as a sustainable offering for high-end markets. While primarily for sports and outdoor fabrics, they extend to lightweights, cut-and-sew fabrics and innerwear lace materials.

Toray plans to begin Ecodear N510 textile sales for Autumn/Winter 2023 with an initial production volume to be 200,000 metres by the end of March 2023 growing to 600,000 metres in March 2026. Ecodear N510 fibre sales are targeted for Autumn/Winter 2023 2024, with an expectation of a monthly supply of three metric tons monthly in the year ending March 2024.

In the early 1950s, Toray became the first Japanese company to manufacture nylon. Apparel and other wide-ranging applications over the years have reflected the fibre’s excellent flexibility, durability, wrinkle resistance and washability.

Toray already offers partially plant-based polyester, nylon and other polymers. It developed Ecodear N510 by polymerizing sebacic acid from castor-oil plants and pentamethylenediamine from corn and spinning waste. Unlike other wholly plant-based nylons, Ecodear N510 has a high melting point and outstanding dimensional stability. It is as strong and heat-resistant as nylon 6, the company says.


Japanese performance material developer Teijin has developed a knitted fabric that it says can “respond to perspiration” to increase breathability and eliminate clamminess. The new “self-adjusting fabric” will come to market in its 2023 fiscal year and predicted it would become a core product for year-round sports and outdoor apparel.

The fabric has a solid knitted structure that changes shape in three directions in response to perspiration thanks to a specially textured, side-by-side composite yarn made from two types of polymer, each with different hygroscopicity. The yarn’s structure also includes a coiled crimp.

Work on a side-by-side composite yarn and on fabric with stitches that would open and close in response to perspiration began in 2009, the company says. Initially, the stitches opened too much, causing issues with clothing sizes. Teijin has limited stitch opening “to a practical level,” so that commercial applications will now be possible.

[Source - https://advancedtextilessource.com/2022/01/10/commercial-applications-possible-for-fabric-that-adapts-to-sweat/]
**HOMETECH - Soft and Stain Resistant Fabrics**

**Crypton Luxury Fabrics for Upholstery - Stylishly Soft and Stain Resistant**

Ballard Designs, Atlanta, known for its unique curation of home furnishings and decor announces official expansion of its home performance fabric options to include Crypton luxury textiles. This adds to Ballard’s existing collection of distinguished Performance Fabrics, Sunbrella® and Inside Out®.

Ballard's New Crypton Home® fabrics by the yard feature are soft-handed weave design, protection for indoor furniture from spills, stain and odor resistance and chic style. The new line of Crypton Home performance fabrics offered at Ballard Designs works well for any home.

The new performance fabric line adds 28 Crypton Home fabrics to over 100 performance fabric offerings for custom upholstery. The Crypton Home performance fabrics are soft yet durable and each fiber is infused with special engineering to protect against wear and accidents. Ballard’s customization program offers these stunning upholstery fabrics for more than 550 furniture frames from sofas to statement chairs to headboards. The designer easy-care fabrics are perfect for indoor spaces where bustling family life is part of the everyday routine.


**MEDITECH - Small-Sized N95 Facemask**

**Small-Sized NIOSH-Approved N95 Respirator**

US based Shawmut has launched a small-size NIOSH-approved N95 filtering facepiece respirator to help protect people with smaller faces. The Protex SR9520S N95 respirator is made with the same patent-pending design as its counterpart, but with a smaller form factor to optimise fit on smaller faces.

While smaller in form, the SR9520S respirator was designed for adult faces. Families considering an N95 respirator for their children should take the time to make sure the N95 fits properly: sealed around the face, straps are not loose and the wearer is comfortable enough not to remove it. To get the...
maximum protection from an N95 respirator, there should be no air leakage around the edges of the mask. Before depending on the small N95 for protection, the wearer should test for leaks and gaps all around the edges.

The Protex N95 Particulate Respirator Model SR9520S was engineered with fit and comfort in mind for smaller faces. Shawmut innovated its patent-pending Protex All Day Comfort System that combines a uniquely soft but strong inner layer, incredibly lightweight but highly efficient and effective inner filtration layer, and high-sealing viscoelastic nose foam for a secure but comfortable seal. The result is an N95 mask performance with less air resistance, cooler and less stale air inside the mask for easier breathability, less eyeglass fogging, and less pressure on the face for all-day-comfort and wear.

The Protex N95 Particulate Respirator Model SR9520S offers a minimum of 95% filtration efficiency, meeting the government standard for N95s. The moulded-cup-style respirator-preferred by most users for its performance is made with Shawmut’s proprietary high-efficiency, bi-layer, meltblown filtration material offering a comfortable fit for extended wear. Due to its lightweight, inner filtration layer, developed using Shawmut’s advanced material expertise, the Protex N95 small respirator is lighter and more breathable than others on the market.

List of circulars given below were emailed to all ITTA members during the last 2 months, but to get them in one place we have started publishing this list in each E-Bulletin.

A. STATE & CENTRAL GOVT. CIRCULARS
   (http://ittaindia.org/?q=node/2067)
2. Operational Guidelines for PM MEGA INTEGRATED TEXTILE REGION AND APPAREL (PM MITRA) PARKS SCHEME, in terms of para 9 of the Scheme Notification dated 20.10.2021 by Ministry of Textiles (MOT), dated 15.01.2022.
   (http://ittaindia.org/?q=node/2093)
3. Notification of Indian Trade Classification (Harmonised System), 2022 - Schedule-1 by DGFT, Ministry of Commerce & Industry (MoC&I), dated 09.02.2022.
   (http://ittaindia.org/?q=node/2137)
   (http://ittaindia.org/?q=node/2139)

B. ITTA COMMUNICATIONS
   (http://ittaindia.org/?q=node/2064)
   (http://ittaindia.org/?q=node/2066)
3. SURVEY TO COLLECT INFORMATION FROM THE TECHNICAL TEXTILE PRODUCT MANUFACTURERS on the machinery that are available in India and/or imported from other countries, Cir. No. 47/2021-22 dated 04.01.2022.
   (http://ittaindia.org/?q=node/2096)
4. SURVEY TO COLLECT INFORMATION FROM THE TECHNICAL TEXTILE MACHINERY MANUFACTURERS on the machinery that are available in India and/or imported from other countries, Cir. No. 48/2021-22 dated 05.01.2022.
   (http://ittaindia.org/?q=node/2098)
   (http://ittaindia.org/?q=node/2094)
6. 2 NEW EMAIL IDS CREATED, Cir. No. 50/2021-22 dated 10.01.2022.
   (http://ittaindia.org/?q=node/2095)
7. Request to give your Suggestions on New Draft “Textile Technology Development Scheme (TTDS)” by MOT to replace earlier ATUF Scheme, Cir. No. 51/2021-22 dated 13.01.2022.
   (http://ittaindia.org/?q=node/2106)
   (http://ittaindia.org/?q=node/2132)
MARKTECH COMPOSITES PVT. LTD., BANGALORE
Marktech Composites is a solution provider with over 30 years of experience in composites business in India. They are channel partner for Valmiera Group - Latvia, ECC Group - Germany & SHD Composites - UK. Their product range includes Glass Fabrics & Fibers, Carbon Fabrics and Fibers, Kevlar Fabrics, Carbon and Glass Prepregs & High Silica Fabrics.

TEX LINKS, NEW DELHI
Tex Links provides end to end solutions in the field of PUR Hot Melt Lamination i.e Finished products as well as for Job work. They have PUR Hotmelt Lamination m/c, Bronze lamination m/c, PVC/Silicon Dot printing m/c, N95 mask making m/c, etc. Product includes mattress protector & dry sheets - 1.8 million mtrs/year, ortho-shoes lining fabric - 6 lakh mtrs/year, PPE garment fabric - 6 lakh mtrs/year.

MAYUR UNIQUOTERS LTD., RAJASTHAN
Mayur Uniquoters incorporated in 1992 and the leading manufacture of coated textile fabrics with latest technology machines such as PLC based PVC & PU Coating line, PLC based Printing & Embossing m/c, PLC based Flame Lamination m/c, etc. mainly imported from renowned manufacturers in Europe. Their product range includes Furnishing & Furniture fabrics, Specialty mattress cover, automotive upholstery fabrics, sports footwear - scratch resistance, anti microbial, antifungal, fire retardants, etc. with a production capacity of 54.60 million mtrs per month.

PAN HEALTHCARE PVT. LTD., GUJARAT
PAN Healthcare are manufacturing Baby Diaper Pants. Adult Pants, Sanitary Napkins & also marketing full range of Baby and Feminine Hygiene care products. They have fully automatic machines of Baby Diapers (Pull ups), Adult Pull-Up Diapers & Sanitary Napkins with a total capacity to manufacture more than 850 Million hygiene products. They are currently operating in Indian market with brands like Little Angel for Baby Diaper Pants, Liberty for Adult Diaper Pants and Everteen for Sanitary Napkins.

PASHUPATI TEXSPIN EXPORT LLP, GUJARAT
Pashupati Texspin has Airjet loom producing greige fabric for shirting and bottoms. They also have sectional warping m/c, picanol rapier m/c, inspection m/c etc. They produce canvas fabric with production capacity of 576 MT/year.

NEL LIFECARE PRODUCTS (INDIA) PVT. LTD., GUJARAT
NEL Lifecare Products (India) is a newly incorporated on 13th March, 2021. They started manufacturing clinical diapers and under pads and have machineries such as fully servo underpad m/c & adult open tap diaper m/c, auto packaging m/c, etc.
### ADVERTISEMENT TARIFF FOR ITTA E-BULLETIN

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

<table>
<thead>
<tr>
<th></th>
<th>One Issue</th>
<th>Three Issues</th>
<th>Six Issues</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Full page</strong></td>
<td>Rs. 10000*</td>
<td>Rs. 25000*</td>
<td>Rs. 45000*</td>
</tr>
<tr>
<td><strong>Half page</strong></td>
<td>Rs. 6000*</td>
<td>Rs. 16000*</td>
<td>Rs. 30000*</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>One Issue</th>
<th>Three Issues</th>
<th>Six Issues</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Full page</strong></td>
<td>Rs. 12500*</td>
<td>Rs. 31250*</td>
<td>Rs. 56250*</td>
</tr>
<tr>
<td><strong>Half page</strong></td>
<td>Rs. 7500*</td>
<td>Rs. 20000*</td>
<td>Rs. 37500*</td>
</tr>
</tbody>
</table>

*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/ 300 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, Ghatkopar (W) Branch, Mumbai 400086.
   Current Account No: 04220200000491
   IFSC Code – BARB0GHATKO

**Mode of sending advt. material:**

Name of the Company: ...........................................................................................................

Mailing Address: ...................................................................................................................

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

Mobile Number: ..................................................Email: ..................................................
<table>
<thead>
<tr>
<th>DATES</th>
<th>EVENTS NAME</th>
<th>PLACE</th>
<th>WEBSITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-22 April 2022</td>
<td><strong>ICERP 2022</strong></td>
<td>Virtual Event</td>
<td><a href="https://icerpshow.com/">https://icerpshow.com/</a></td>
</tr>
<tr>
<td>04-06 March 2022</td>
<td><strong>HOMTEX</strong></td>
<td>Bangalore, India</td>
<td><a href="https://www.homtex.in/bangalore/index.php">https://www.homtex.in/bangalore/index.php</a></td>
</tr>
<tr>
<td>08-10 March 2022</td>
<td><strong>FILTECH 2022 (The Filtration Event)</strong></td>
<td>Cologne, Germany</td>
<td><a href="https://filtech.de/">https://filtech.de/</a></td>
</tr>
<tr>
<td>28-29 March 2022</td>
<td><strong>SMART FABRICS SUMMIT</strong></td>
<td>North Carolina, USA</td>
<td><a href="https://ifaiexpo.com/">https://ifaiexpo.com/</a></td>
</tr>
<tr>
<td>10-13 March 2022</td>
<td><strong>DEFEXPO 2022</strong></td>
<td>Gujarat, India</td>
<td><a href="https://defexpo.gov.in/">https://defexpo.gov.in/</a></td>
</tr>
<tr>
<td>28-31 March 2022</td>
<td><strong>IDEA 2022</strong></td>
<td>Florida, USA</td>
<td><a href="https://www.ideashow.org/">https://www.ideashow.org/</a></td>
</tr>
<tr>
<td>29-31 March 2022</td>
<td><strong>COMPOSITE-EXPO</strong></td>
<td>Moscow, Russia</td>
<td><a href="http://www.composite-expo.com/">http://www.composite-expo.com/</a></td>
</tr>
<tr>
<td>29-31 March 2022</td>
<td><strong>FiltXPO™ 2022</strong></td>
<td>Florida, USA</td>
<td><a href="https://www.filtxpo.com/">https://www.filtxpo.com/</a></td>
</tr>
<tr>
<td>05-07 May 2022</td>
<td><strong>YARNEX (India International Yarn Exhibition)</strong></td>
<td>Mumbai, India</td>
<td><a href="https://www.yarnex.in/">https://www.yarnex.in/</a></td>
</tr>
<tr>
<td>12-14 May 2022</td>
<td><strong>GARTEX TEXPROCESS INDIA</strong></td>
<td>Mumbai, India</td>
<td><a href="https://www.gartexindia.com/about-the-show/">https://www.gartexindia.com/about-the-show/</a></td>
</tr>
<tr>
<td>14-17 May 2022</td>
<td><strong>TURKISH OCCUPATIONAL SAFETY + HEALTH EXHIBITION (TOSH EXPO)</strong></td>
<td>Istanbul, Turkey</td>
<td><a href="https://www.messe-duesseldorf.com">https://www.messe-duesseldorf.com</a></td>
</tr>
<tr>
<td>02-03 June 2022</td>
<td><strong>5TH EDITION ‘RIGHT’ HYGIENE</strong></td>
<td>New Delhi, India</td>
<td><a href="https://www.bch.in/">https://www.bch.in/</a></td>
</tr>
<tr>
<td>02-05 June 2022</td>
<td><strong>INDIA MATTRESSTECH EXPO + UPHOLSTERY SUPPLIES</strong></td>
<td>Bengaluru, India</td>
<td><a href="https://indiamattresstechexpo.com/">https://indiamattresstechexpo.com/</a></td>
</tr>
<tr>
<td>08-09 June 2022</td>
<td><strong>INTERNATIONAL NONWOVENS SYMPOSIUM (Hybrid Event)</strong></td>
<td>Lyon, France</td>
<td><a href="https://www.edana.org/events/nonwovens-symposium/international-nonwovens-symposium">https://www.edana.org/events/nonwovens-symposium/international-nonwovens-symposium</a></td>
</tr>
<tr>
<td>08-09 June 2022</td>
<td><strong>MED-TECH INNOVATION EXPO</strong></td>
<td>Birmingham, UK</td>
<td><a href="https://www.itmexhibition.com/itm2022/">https://www.itmexhibition.com/itm2022/</a></td>
</tr>
<tr>
<td>14-18 June 2022</td>
<td><strong>INTERNATIONAL TEXTILE MACHINERY EXHIBITION (ITM) 2022</strong></td>
<td>Istanbul</td>
<td><a href="https://www.itmexhibition.com/itm2022/">https://www.itmexhibition.com/itm2022/</a></td>
</tr>
<tr>
<td>17-18 June 2022</td>
<td><strong>OSH INDIA SOUTH</strong></td>
<td>Chennai, India</td>
<td><a href="https://www.oshindia.com/south-india/">https://www.oshindia.com/south-india/</a></td>
</tr>
<tr>
<td>DATES</td>
<td>EVENTS NAME</td>
<td>PLACE</td>
<td>WEBSITE</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>28-29 June 2022</td>
<td>10TH FUTURE FABRICS VIRTUAL EXPO</td>
<td>London, UK</td>
<td><a href="https://www.futurefabricsvirtualexpo.com/">https://www.futurefabricsvirtualexpo.com/</a></td>
</tr>
<tr>
<td>21-23 July 2022</td>
<td>YARNEX (India International Yarn Exhibition)</td>
<td>Delhi, India</td>
<td><a href="https://www.yamex.in/">https://www.yamex.in/</a></td>
</tr>
<tr>
<td>04-06 August 2022</td>
<td>GARTEX TEXPROCESS INDIA</td>
<td>New Delhi, India</td>
<td><a href="https://www.gartexindia.com/about-the-show/">https://www.gartexindia.com/about-the-show/</a></td>
</tr>
<tr>
<td>26-28 August 2022</td>
<td>AGRITECH INDIA 2022</td>
<td>Bengaluru, India</td>
<td><a href="https://sites.google.com/mediatoday.in/agritechindia">https://sites.google.com/mediatoday.in/agritechindia</a></td>
</tr>
<tr>
<td>26-28 August 2022</td>
<td>SPORTS EXPO INDIA 2022</td>
<td>Hyderabad, India</td>
<td><a href="https://sportex.in/index.html">https://sportex.in/index.html</a></td>
</tr>
<tr>
<td>01-03 September 2022</td>
<td>MEDIAEXPO</td>
<td>New Delhi, India</td>
<td><a href="https://media-expo-newdelhi.in.messefrankfurt.com/newdelhi.en.html">https://media-expo-newdelhi.in.messefrankfurt.com/newdelhi.en.html</a></td>
</tr>
<tr>
<td>04-07 September 2022</td>
<td>7TH EUROPEAN GEOSYNTHETICS CONFERENCE</td>
<td>Warsaw, Poland</td>
<td><a href="https://eurogeo7.org">https://eurogeo7.org</a></td>
</tr>
<tr>
<td>06-08 September 2022</td>
<td>SAFETYEX</td>
<td>Mumbai, India</td>
<td><a href="http://www.safetyex.in/">http://www.safetyex.in/</a></td>
</tr>
<tr>
<td>14-15 September 2022</td>
<td>CONTAMINATION &amp; GEOTECH EXPO</td>
<td>Delhi, India</td>
<td><a href="https://www.contaminationexpo.com/">https://www.contaminationexpo.com/</a></td>
</tr>
<tr>
<td>23-25 September 2022</td>
<td>8TH EDITION NONWOVEN TECH ASIA</td>
<td>North Carolina, USA</td>
<td><a href="https://www.nonwoventechasia.com/">https://www.nonwoventechasia.com/</a></td>
</tr>
<tr>
<td>12 October 2022</td>
<td>IFAI EXPO 2022</td>
<td>North Carolina, USA</td>
<td><a href="https://ifaiexpo.com/">https://ifaiexpo.com/</a></td>
</tr>
<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>
</tr>
<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>
</tr>
<tr>
<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>
</tr>
<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>08-13 December 2022</td>
<td>INDIA ITME 2022 (11th India International Textile Machinery Exhibitions)</td>
<td>Greater Noida, UP, India</td>
<td><a href="https://itme2022.india-itme.com">https://itme2022.india-itme.com</a></td>
</tr>
<tr>
<td>02-03 February 2023</td>
<td>FILTREX INDIA</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>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>
</tr>
</tbody>
</table>