INDIAN TECHNICAL TEXTILE ASSOCIATION

E-BULLETIN

e-magazine for members

Issue No.89 March-April, 2024

- **Textile beneficiaries to be vocal for local and take local to global, says Shri. Piyush Goyal, MoT**

- **Govt. initiate to incentivize Intellectual Property Rights in Technical Textile**
- **Govt. extended RoDTEP Scheme to AA holders, EOU and SEZ upto 30.09.2024**
- **QCO on 20 Agrotextile Items will come into force on 01.07.2024**
- **Samarth Scheme timeline for textile extended upto 31.03.2025**

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Textile Recycling - Sustainability in Nonwoven Production

The term „sustainability" is used today to describe necessary savings of resources of all sorts and including technological solutions for the reduction of energy and fibre material consumption. For economic reasons, these goals have been pursued in the past already. In recent years, however, the discussion of the importance of sustainability is usually very much influenced by the ecological importance in order to stop climate change.

In the tradition of further development and innovation in the field of textile machinery for nonwoven production it becomes obvious that in the past the use of textile waste from garment clippings and the use of natural fibre were the primary fields in needling and in the production of insulation material, carpet underlay as well as upholstery for furniture and in bedding. Those applications are still important when we want to reduce virgin fibre consumption and also apply natural fibres in order to allow an environmentally friendly end- of-life for such materials.

In the past, machine development and engineering at Dilo was directly related to the use of reclaimed fibre and natural fibre for needled products and has defined technical development in the years until the mid-60s when man-made organic fibre offered many more applications for needle felts including floor coverings and technical felts.

DiloGroup has started a partnership with specialists Dell'Orco & Villani for modern tearing technology as well as with TechnoPlants as the specialist for aerodynamic web forming of waste fibre. Therefore, Dilo as general contractor provides a complete platform with solutions in the field of recycling fibre material from post-consumer and post production sources. Many different complete line solutions for clean hard waste recycling of garment clippings or nonwoven waste include all different quality and capacity features. An important role is the "controlled" tearing technology which reduces the shortening of staple lengths during tearing. Of course, a natural relation between quality and production plays a role. A tearing technology to retain staple lengths as much as possible does not allow the same throughput rates compared to a standard tearing installation.

Demonstration and Test Centres

Dell'Orco & Villani and Technoplants offer demonstrations as well as product development with their complete installations for trials with different fibre and for different products in Florence, Ancona and Pistoia. Dilo has its demonstration facility for the card/crosslapper webforming and needling in Eberbach, Germany.

Our engineering is thus supported by four demonstration, testing and development centres for the various process stages in order to provide all necessary information before investment decisions.

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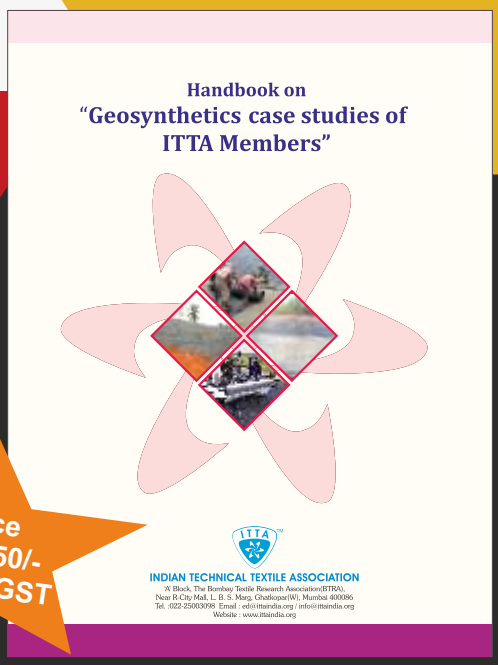

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- *Load Carrying fabric*
- *Geosynthetics*

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EXTREME COLD CLIMATE CLOTHING

Shri. Narendra Kajale,
Global Vice President - R&D, Tufropes Pvt. Ltd., Maharashtra

Introduction:

Extreme cold weather climate clothing, popularly known as ECWCS are widely used by Armed Forces positioned at altitudes beyond 10000 Ft. One such position India occupies is Siachen Glaciers. The weather at these positions is generally -50°C. The presence of

high winds at that altitude makes it feel like -70°C. It said in general that the war at this altitude is more with the weather than the enemy.

The clothing in such environment is of paramount importance for humans posted there to survive. One of the important aspects is every person possess different metabolic behaviour. Hence somebody may feel warm with particular combination, some may steel feel the cold or some may sweat. Hence the clothing design should provide an option to the wearer that they should be able wear such clothing in form of different layers so that everyone feels cozy when they wear it. Needless to say, such clothing should possess some basic performances like the outermost layer of the outer garment should be hydrophobic in nature at the same time, it should act as wind barrier. The outer layer of the middle garment should be hydrophobic and should hold the thermal insulation in a way that maximum body heat is retained inside. The air should not come in but the vapours generated due to body heat should be able to escape reasonably well so that the comfort is experienced at its peak. With all these challenges, the choice of materials, engineering arrangement of those material coupled with garment design, gives the solution which addresses most of the challenges faced by the forces posted at such altitude. The design of the garment should be such that the mobility of the armed forces is not compromised under any circumstances.

In this article, we like to illustrate one such solution which has ability to perform under such challenging weather condition. The discussion would be around the components of the garments, principle of protection, materials & process commonly used, the performance Specifications of such solution.

Components of the Solution:

1. **Outer Jacket -** This Jacket is made of three layers. The outer fabric is generally Snow-White Nylon or Polyester Ripstop laminated to polymeric membrane like PU. Such membrane acts as the wind barrier and prevents flow of air. The lamination is highly technical in nature which is insensitive to temperature changes and retains its strength through its usage. The membrane is chosen to make sure that it does not become brittle at those low temperature and continue to provide the required barrier performance. The white fabric is treated with best-in-class hydrophobic chemicals. Second layer is the secondary thermal insulations that lies beneath the white fabric. It comprises of hollow polymeric fibres or goose dawn. This secondary thermal insulation is hold in its place by third layer which is inner taffeta fabric coated with PU. This is preferred to be of polyester in green colour. The jacket is designed optionally to be reversible depending on conditions of procurement.

2. **Middle Jacket -** This Jacket is made of three layers. The outer fabric is generally Green Polyester Tafetta coated with PU to provide secondary hydrophobicity. The second layer lies below this fabric as Primary Thermal Insulation. This thermal insulation is expected to provide complete thermal protection to the wearer. The third layer is Water Repellent treated Polyester

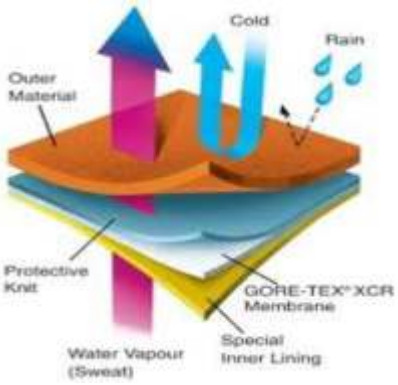
taffeta lining which hold this thermal insulation in its place. The function of this polyester lining is having excellent wicking properties and also to provide excellent breathability to the wearer so that moisture vapours are transported easily through it. In case of the biological conditions when such vapours are condensed, the fabric should have capability to transport it to the next layer as soon as possible. laminated to polymeric membrane like PU. Such membrane acts as the wind barrier and prevents flow of air.

3. **Inner Jacket -** This Jacket is made of Micro polyester Fleece brushed on both side. The fleece is carefully chosen as stretchable and preferred in black color for offering maximum heat retentions within the bodily layer. This garment has to be skin tight and taking contours/shape of the body. The fleece should have high wicking properties and high degree of microporosity to enable faster transportation of moisture vapours and prevent in-grace of cold air.

Summary - The performance of the garment set is measured in its ability to retain heat, transport moisture vapour and barrier performance to air along with hydrophobicity. The heat retention is generally measured in the CLO Value terms. All the three garments which comprise total 7 layers should offer combined CLO value of >6.5 with associated values of Wicking, Wind Barrier & Spray Ratings. Since each individual demonstrate different metabolic behaviour, they can optionally wear Inner & middle garment or Inner, Middle & Top Garment. However, the condition of the garment design is that while the set should provide CLO value of >6.5, any two combination should provide min CLO value of 4.0.

Principle of Protection:

1. Retain Internal body heat inside.
2. Prevent Water In grace.
3. Prevent Air In grace.
4. Allow Vapor flow out.
5. Design Clo value of the system @>6.5.
6. Design Clo value of at least 4 with any two layers.
7. This is achieved by laminating the functional membrane with fabric.



Typical Performance Specifications:

Table 1:

Sl. No	Parameters	Outer Layer Garment Fabrics		Middle Layer Garment Fabrics		Inner Layer Garment Fabric (next to skin)	Test Methods
		Outer Shell Fabric	Inside Fabric (Inside Reversible Side)	Outer Shell Fabric	Liner Fabric		
(a)	Material	100 % Nylon Taslan Woven Fabric White (Laminated with Breathable Film)	100% Nylon Woven Fabric Olive Green,	100% Nylon Woven Fabric Olive Green,	100 % Polyester Woven Fabric Jungle Green,	100% Polyester Knit Fabric Black,	IS: 667/ ISO 1833 and AATCC-20 or any equivalent internation al methods.
(b)	Mass/m^2	130 ± 10 g/m^2	100 ± 10 g/m^2	100 ± 10 g/m^2	70 ± 7 g/m^2	150 ± 10 g/m^2	ISO 3801:1977
(c)	Breaking Strength -Warp -Weft	750N(Min) 600N(Min)	650N(Min) 450N(Min)	650N(Min) 450N(Min)	600N(Min) 300N(Min)	- -	ISO 13934-1:2013

Sl. No	Parameters	Outer Layer Garment Fabrics		Middle Layer Garment Fabrics		Inner Layer Garment Fabric (next to skin)	Test Methods
		Outer Shell Fabric	Inside Fabric (Inside Reversible Side)	Outer Shell Fabric	Liner Fabric		
(d)	Tearing Strength						ISO13937-2:2000
	-Warp	20N (Min)	15N (Min)	15N (Min)	8N (Min)	-	
	-Weft	20N (Min)	15N (Min)	15N (Min)	8N (Min)	-	
(e)	Spray Rating Test						ISO 4920 : 2012 (Wash as per ISO 6330: 2000, 2A,E)
	Initial -	4 or better	4 or better	4 or better	4 or better	-	
	After 5 wash-	4 or better	4 or better	4 or better	4 or better	-	
(g)	Water Vapour Resistance Ret	15 m^2 Pa/W (Max)	15 m^2Pa/W (Max)	15 m^2 Pa/W (Max)	15 m^2 Pa/W (Max)	-	ISO 11092: 1993
(h)	Bursting Strength	-	-	-	-	600(Kpa) (Min)	ISO:13938-1: 1999,

Table 2:

Sl. No	Parameters	Outer Layer Garment Fabrics		Middle Layer Garment Fabrics		*Inner Layer Garment Fabric (next to skin)*	Test Methods
		Outer Shell Fabric	Inside Fabric (Inside Reversible Side)	Outer Shell Fabric	Liner Fabric		
(k)	Anti-Microbial Finish (Fabric should withstand 20 washes)	-	-	-	-	Bacteria (Staphylococcus aureus & Klebsiell Pneumoni aATCC 6538)	AATCC-100: 2012
	At Beginning	-	-	-	-	0	
	After 24 h - (% reduction of Bacteria)	-	-	-	-	80 %	
(l)	Dimensional Property (Shrinking Property) after 2 washing cycles at 40°C	3.0% on both direction (Max)	2.5% on both direction (Max)	2.5% on both direction (Max)	2.5% on both direction (Max)	± 4.0 %	ISO : 6330: 2012/ISO5 077:2007, Type A. Test Programme 4 N, (40±3) C, Flat dry)
(m)	Dimensional Stability to Steaming	-	-	-	-	± 4.0 %	ISO 3005: 1978, (WIRA Steam Cylinder Method)

Sl. No	Parameters	Outer Layer Garment Fabrics		Middle Layer Garment Fabrics		*Inner Layer Garment Fabric (next to skin)*	Test Methods
		Outer Shell Fabric	Inside Fabric (Inside Reversible Side)	Outer Shell Fabric	Liner Fabric		
(k)	Anti-Microbial	-	-	-	-	Bacteria (Staphy.	AATCC-100: 2012
(n)	Colour fastness to:						ISO 105 B02 : 2014, Xenon Arc Lamp, Blue Scale)
	-Light	4 or better	4 or better	4 or better	4or better	4 or better	
	-Washing	4 or better	4 or better	4 or better	4 or better	4 or better	ISO 105 C06 : A2S-30Min
	- Perspiration (acid & alkali)	4 or better	4 or better	4 or better	4 or better	4 or better	ISO 105 E04:2013

Table 3 :

Sl. No	Parameters	Outer Layer Garment Fabrics		Middle Layer Garment Fabrics		Inner Layer Garment Fabric (next to skin)	Test Methods
		Outer Shell Fabric	Inside Fabric (Inside Reversible Side)	Outer Shell Fabric	Liner Fabric		
(p)	Hydrostatic Pressure test (*Water Proof Properties*):						
	- New condition	0.5 bar (Min)	0.5 bar (Min)	-	-	-	ISO-811 (E)
	- Contamination of fuel of oil or chemicals	0.5 bar (Min)	-	-	-	-	ISO:811(E) Preparation of the sample according to EN: 343
	- Sharp Bend Test under low temperature of -40°C	0.5 bar (Min)	-	-	-	-	ISO:811(E), Preparation of the sample according to EN: 1876-1
(q)	Seam Sealing test:						By Hydrostatic tester to test at 21 kPa for two minutes Wash as per ISO 6330:2000, 2A,A
	- Initial	No Leakage.	-	No Leakage.	-	-	
	- After 3 wash	No leakage	-	No leakage	-	-	
(r)	Abrasion Resistance (according to Martindale 9KPa of load (Face) 60,000 Cycle (Min))	No thread breakage	No thread breakage	-	-	-	ISO 12947-2:1998

NOTE: *The article is an extract of the presentation in a Technical Session on "Technological Advancement on Technical Textile Products for Personal Protection", powered by ITTA, during OSH India 2023 Expo & Conference held on 24th November 2023.*

DILO GROUP (DILO INDIA PVT. LTD.)

Textile Waste Recycling Cooperation Dilo Group

DiloGroup has started a partnership with specialists Dell'Orco & Villani for modern tearing technology as well as with TechnoPlants as the specialist for aerodynamic web forming of waste fibre. Therefore, Dilo as general contractor provides a complete platform with solutions in the field of recycling fibre material from post-consumer and post production sources.

Dell'Orco & Villani is a long term highly experienced and innovative specialist in the field of tearing equipment to recycle textile garment clippings. This technology maintains as much as possible the staple length of reopened fibre from yarn in knitted and woven textiles. This special tearing process avoids the downgrading and shortening of the staple.

TechnoPlants is a highly experienced specialist in the field of aerodynamic web forming and through air technology with particular emphasis on reclaimed fibre for various applications as for example in acoustic and thermal insulation, car parts, upholstery and bedding.

DiloGroup with DiloSystems GmbH is a general contractor who is specialized in the area of fibre preparation, carding, cross-lapping and needling who will act as a turnkey general provider of complete projects including Dell'Orco & Villani components to reclaim wasted fibre as well as TechnoPlants components when aerodynamic web forming is included or when carding, cross-lapping is selected together with through-air ovens and end-of-line equipment including packaging from TechnoPlants. The great expertise of the three companies together is a source for the complete know-how in this large area of applications to reuse fibre from textile waste in new nonwoven material. The management of Dell'Orco & Villani, TechnoPlants and DiloGroup is pleased to announce this cooperation in the best interest of our worldwide range of customers of this special field.

ITTA
INDIAN TECHNICAL TEXTILE ASSOCIATION

TTTA

ITTA SIGNED MOU WITH TAIWAN TECHNICAL TEXTILE ASSOCIATION (TTTA)

Taiwan Technical Textiles association (TTTA) is the leading technical textile association in Taiwan, having membership consists of cross field manufacturers, distributors, industry groups, R&D units and academic experts. At present TTTA have over 200 members. The objective of MOU is:-

1. To jointly organise International workshop, seminar or symposium for technical textile companies of both the countries.
2. To jointly promote development of product/testing standards.
3. To support major events of Technical Textiles/ Nonwovens and related Industries organized by ITTA and TTTA.

1. ENGAGEMENTS WITH CENTRAL & STATE GOVERNMENTS

1.1. Meeting of Empowered Programme Committee (EPC) under NTTM

The 6th meeting of Empowered Programme Committee (EPC) of National Technical Textiles Mission (NTTM) under the Chairmanship of Ms. Rachna Shah, Secretary (Textiles), Minister of Textiles was held on 18.03.2024 at Udyog Bhawan, New Delhi. Shri. Anilkumar Vasupillai, AED, ITTA attended the meeting.

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

1. 137 R&D Projects, including 2 projects for development of machinery/ equipment valuing around INR 474 Crs. are approved.

2. 31 projects of value of around INR 19 Crs. have been reviewed by JS on 15th & 16th January 2024.

3. Hackathon focused on Technical Textiles was organised under NTTM. Under this, NTTM received applications from various institutes/ organizations/ industries across the country which were evaluated. Accordingly, 4 project ideas were selected and awarded during Bharat Tex.

4. Under 'General Guidelines for Enabling of Academic Institutes in Technical Textiles - For Private and Public Institutes', 28 applications have been received, out of which review of 17 applications have been conducted, 1 application was rejected in initial scrutiny, 3 applications were withdrawn by the applicants and rest of the applications are under process for evaluation.

5. Proposed changes in the current IPR guidelines are - a) to grant an exclusive license for 5 years, b) to maintain a database of the patents arising from the research under NTTM funding, c) to change "an IP purely owned by an industry" to "an IP owned collectively by industry stakeholders or by a specific entity within the industry" – In this situation, any new IP generated by the academic institution may be licensed for a period of two years to the industry or industry stakeholders on an exclusive basis, from the date of completion of the pilot scale/ validation project. Beyond two years, after duly assessing the milestone achievements and royalty realization, the IP can either be considered for further renewal with the same industry on mutually agreeable terms or made to any interested party ae per the terms of the relevant IP policy.

6. TRAs may be authorized to prepare courses for the Target Group (TG): Unskilled persons prior to their employment in technical textiles manufacturing units.

7. Committee approved the General Guidelines for 'Skilling and Training of Candidates in Technical Textiles', with the following changes:

   a) Category- 'Under-graduate students in engineering, medicine, design, agriculture, aquaculture, sports & lifestyle, fashion technology to be added as Target Group I.

   b) Course duration for TG-II (Low-level & Mid-level Management) and TG-IV to be revised to 60-120 hours/ Max. 30 days.

1.1. Meeting with Secretary (Textiles) of Govt. of Maharashtra & Senior Officials of ITTA

The meeting with Shri. Virendra Singh, Secretary (Textiles), Government of Maharashtra and Senior Officials of ITTA was held on 13.03.2024 at Mantralaya, Mumbai to discuss about the Technical Textile Parks in Maharashtra. The meeting was attended by Shri. Avinash Misar, Chairman, Shri. Mahesh Kudav, Vice-chairman and Dr. Anup Rakshit, Executive Director, ITTA.

As per the discussion during the meeting, ITTA shared the following information/ inputs on the crucial points such as recommendations regarding the tentative size and essential facilities required within the technical textile park, insights on the ideal technical workforce that should be integrated into the park and research projects for Maharashtra Technical Textile Mission with Govt. of Maharashtra for necessary action.

NEW MEMBERS

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MMP Filtration is a leading manufacturer of Technical Textiles Spun Yarn through Dref Friction Spinning Technology & Rotor Spinning machines. They manufacture yarns from fine to coarse counts in Polypropylene (PP) Polyester, Aramid, Cotton and a host of other yarns and core-sheath yarns, coated yarns, plied yarns for different applications such as upholstery carpets, filtration cartridges, FR fabric, cut resistant fabric, adventure sportswear, etc.

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ACTUAL VIDEO

CATALOGUE

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Yarn

Sustainable Yarn	Model Fibre | Tencel Fibre | Excel Fibre | Bamboo Fibre | Recycled Polyester Fibre | Recycled Cotton Yarn | Smartcel Cupro Fibre | Hemp Fibre | Linen Fibre | Lotus Fibre | Pineapple Fibre | Organic Cotton Yarn | Seacell | Bamboo Charcoal Fibre Umorfil Fibre | Soyabean Fibre | Milk Protein Fibre | Coffee Ground Fibre | Merino Wool | Fibre Lenzing Ecovero | Lenzing Refibra Fibre | Livaeco Viscose
Synthetic Yarn	Poly/Viscose dyed and Melange yarn | 100% Polyester dyed and Melange Yarn | 100% Viscose | 100% Acrylic | Acrylic/Polyester
Fancy Yarn	Injection Slub | Linen Look | Jaspe Yarn | Sweater Yarn | Lycra Twisted | Muti Twist Yarn | Hairy | Core Spun Yarn Industrial Yarn for Carpet Pile and Backing
Technical Textile Yarn	Aramid Yarns | Modacrylic Yarn | FR Polyester | FR Viscose | PPS | Polyester/Steel | Polypropylene Yarns etc

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

1. BIS SECTIONAL COMMITTEE MEETINGS -

1.1 Industrial Fabrics Sectional Committee, TXD 33

The 20th Meeting of Industrial Fabrics Sectional Committee, TXD 33 was held through video conferencing on 15.03.2024. The meeting was attended by Dr. Anup Rakshit, Executive Director from ITTA Secretariat and ITTA Members from Garware Technical Fibres Ltd., Ginni Filament, Jeevan Ecotex Pvt. Ltd., Khosla Profil, Pvt. Ltd., Kusumgar Corporates Pvt. Ltd., Madura Industrial Textiles, Pacific Harish Industries Ltd., Shiva Texyarn Ltd., SRF Ltd. and Welspun India Pvt. Ltd.

Following points were discussed & decided in the meeting --

1. IS Standards for Publication - Following Indian Standard were finalized for publication- Methods of Test for Coated and Treated Fabrics Part 14 Rubber-Or Plastics-Coated Fabrics Low Temperature Impact Test (Second Revision of IS 7016) and IS 15891:2023/ISO 9073: 2023 -- a) Part 1: Nonwovens - Determination of mass per unit area, b) Part 3: Nonwovens - Determination of tensile strength and elongation at break using the strip method, c) Part 4: Nonwovens - Determination of tear resistance by the trapezoid procedure, d) Part 13: Nonwovens - Repeated liquid strike-through time (simulated urine), e) Part 14: Nonwovens - Coverstock wetback (simulated urine) and f) Part 18: Nonwovens - Determination of tensile strength and elongation at break using the grab tensile test. Other Parts of IS standards remain unchanged.

2. IS Standards at Draft Preparation Stage - Preliminary draft to be prepared on Industrial Nonwoven Wipes and Chemical Requirement for PVC Coated Fabric.

3. BIS will approach the stakeholders for their technical inputs/working draft on the following products are Synthetic hoses & pipes, Synthetic Conveyor & drive belts fabric, AGM Separators for VRLA Batteries, Industrial webbing and slings, Composite Micro Glass fibre and Speciality fiber-based Battery Separators for Lead acid Batteries, Abrasive cloth, Woven air slide fabric and Woven press filter cloth bag.

4. As per the request of BIS, ITTA also shared the contact details of manufacturers on above subjects for contributing their technical inputs for preparation of working draft.

1.1 Technical Textile for Medtech Applications Sectional Committee, TXD 36

The 26th Meeting of Technical Textile for Medtech Applications Sectional Committee, TXD 36 was held through video conferencing on 15.04.2024. The meeting was attended by many ITTA Members from Dima Products, Dispoline India Pvt. Ltd., Ginni Filaments Ltd., Johnson and Johnson, Kimberly Clark Corporation, Kansons Overseas Ltd. KOB Medical Textiles Pvt. Ltd., Nobel Hygiene, Procter and Gamble Co., Surya Textech, Swara Baby Products Pvt Ltd. and Venus Safety & Health Pvt. Ltd.

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

1. Scope of the committee was revised as 'To formulate Indian Standards for terminology, testing and specifications for technical textiles for Medtech applications (including medical devices made of textile material) such as healthcare and hygiene textile products, implantable and non-implantable and extra corporeal textile products.

2. It was further clarified that the products such as barrier face covering, hydrocolloid dressing, bandage plaster of paris, zinc oxide self-adhesive plaster, medical respirator are used for medical application such as infection control, wound healing, wound dressing, orthopedic support and bone repair etc. These products are covered under Medical Textile/Medical Device and falls under Scope of TXD 36.

3. Wide Circulation - Following Draft standards will be issued under wide circulation -IS 17334:2019 - Surgical Gowns and Surgical Drapes, IS 16111:2013 - Elastic Bandage, Nonwoven Gauze Swab (Sterile and Non-Sterile), Scrub Suit and Sterilization Wraps.

Govt. of India notifies extension of RoDTEP support to Advance Authorisation Holders, EOU and SEZ Export Units

Union Minister of Commerce & Industry, Consumer Affairs, Food and Public Distribution, and Textiles, Shri. Piyush Goyal announced the extension of Remission of Duties and Taxes on Exported Products (RoDTEP) Scheme support to additional export sectors in New Delhi on 08th March 2024. The Govt. of India has announced extension of the RoDTEP Scheme support to additional export sectors i.e. Advance Authorisation (AA) holders, Export Oriented Units (EOU) and Special Economic Zones (SEZ) export units. This decision comes in recognition of the significant contribution these sectors make to India's Exports, constituting approximately 25% of our exports. Amidst global economic uncertainties and supply chain disruptions, extending RoDTEP to the uncovered sectors such as AA, EOU, and SEZ units will help the exporting community in handling the international headwinds.

The Remission of Duties and Taxes on Exported Products (RoDTEP) Scheme is a key initiative by the Govt. of India aimed at refunding various embedded taxes and duties on exported products. Since its inception in January 2021, the RoDTEP Scheme has already provided support amounting to ₹42,000 Crores to more than 10,500 export items at 8-digit ITC HS Code level. In the current financial year, the scheme has a budget of ₹15,070 Crore with an additional increase of 10% in FY 2024-25.

Keeping budgetary allocation in view, the extension of RODTEP to additional sectors is presently till 30.09.2024. The extension of the RODTEP scheme to these sectors is aimed at enhancing India's export competitiveness in international markets. Key sectors such as Engineering, Textiles, Chemicals, Pharmaceuticals & Food Processing and many others stand to benefit from the measure.

By providing support to crucial export sectors, the government aims to not only enhance their competitiveness but also create employment opportunities and contribute to overall economic growth, aligning with the vision of building an Aatmanirbhar Bharat. The government is confident that the proactive measures being taken, including efforts to negotiate new FTAs, will further accelerate India's journey towards achieving USD One trillion merchandise export levels.

[Source - https://pib.gov.in/PressReleasePage.aspx ?PRID=2012779]

QCO on 20 Agrotextile Items will come force on July 1st, 2024

Ministry of Textiles announced the Quality Control Orders (QCOs) for 20 items of Agro-textiles and in the Phase-II, following the due process for notification of Technical Regulations including stakeholder consultation, legal vetting, amongst others.

Agrotextiles QCO shall come into force on the 01st of July 2024. This QCO is of paramount importance to the agricultural community and aims to enhance the quality and performance of the Agro textiles products, ensuring that farmers have access to reliable & durable solutions for their agricultural needs. It encompasses a wide range of products designed to enhance agricultural and horticultural practices including the following:

IIT Bombay has developed an instrument named GolDN (pronounced as Golden) for melt-mixing of waste thermoplastic polymers and inorganic particulate fillers to manufacture polymer composites.

[Source-chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://exmin.gov.in/sites/default/files/Agro%20Textiles%20%28Quality%20Control%29%20Amendment%20Order%202024.pdf]

Sr. No.	Product Title
1	Textiles - Polypropylene Spun Bonded Nonwoven Crop Cover and Fruit Skirting Bags for Agriculture and Horticulture Applications
2	Agro Textiles - Insect nets for Agriculture and Horticulture purpose
3	Agro Textiles - Woven Ground covers for Horticulture Application
4	Jute Agro textiles for Growth of Plants and Suppression of Weeds
5	Agro Textiles - High Density Polyethylene (HDPE) woven beds for vermiculture
6	Jute Agro - textile - Sapling bags for growth of seedling /sapling
7	Agro Textile - High Density Polyethylene (HDPE) laminated woven lay flat tube for irrigation purpose
8	Agro Textiles - Nylon Knitted seamless gloves for tobacco harvesters
9	Agro Textiles High density polyethylene (HDPE) laminated woven lay flat tube for use in mains and submains of drip irrigation system
10	Agro Textiles - Propylene Spun bonded nonwoven mulch mat for agriculture and horticulture applications
11	Agro Textiles - Windshield nets for agriculture and horticulture purpose
12	Agro Textiles - Harvest nets for Agriculture and horticulture purposes
13	Agro textiles - Fencing nets for Agriculture and horticulture purposes - Specification Part 1 Fencing nets made from extruded polymer mesh
14	Agro textiles - Fencing nets for agriculture and horticulture purposes - Specification Part 2 Fencing nets made from mono filament yarns and combination of tape and mono filament yarns
15	Agro Textiles - Plant Support Nets for Agriculture and Horticulture Purposes
16	Agro Textiles – High Density Polyethylene (HDPE) Laminated Woven Lay Flat Tube and Fittings for use in Rain Irrigation System
17	Agro Textiles - Flexible Water Storage Tank for Agriculture and Horticulture Purposes
18	Agro Textiles - Hail Protection Nets for Agriculture and Horticulture Purposes Specification Part1 Warp Knitted Hail Protection Nets
19	Agro Textiles - Hail Protection Nets for Agriculture and Horticulture Purposes Specification Part 2 Woven Hail Protection Nets

Shri. Piyush Goyal urges textile beneficiaries to be vocal for local and take local to global

The Union Minister for Textiles, Consumer Affairs & Food & Public Distribution and Commerce & Industry, Shri. Piyush Goyal during his interaction with beneficiaries of Textile Sector including Technical Textiles urged them in attendance to be vocal for local on 06th March 2024. “Be vocal for local and take local to global. That's the clarion call from Prime Minister Shri Narendra Modi to showcase our products at the world stage”, he said.

Shri. Goyal further noted that ramping up textile production in the country will spur income, open up employment opportunities and play a vital role in making the country 'Atmanirbhar' as well. He urged the artisans to register their businesses on the Government e-Marketplace (GeM). He said that he has instructed GeM to register all artisans and weavers connected with handicraft and handloom without any registration fee.

Registering on the e-marketplace will boost the visibility of artisans and help promote businesses enhancing their income, said Shri. Goyal. He further said that the govt. would try to facilitate the GeM-registered businesses to be onboarded on major e-commerce websites in the country and push for registering their businesses on foreign websites.

Shri. Goyal said that the govt. is willing to procure the harvest of jute and cotton farmers if the market price is lower than the Minimum Selling Price (MSP). He further said that the govt. is working towards increasing the production of jute and cotton and is willing to provide quality seeds, fertilizer for quality produce to fulfill the vision of farms to foreign exports.

He urged the textile sector to collectively work towards technological innovation that would ease the lives of the artisans and weavers and provide an impetus to their income. He thanked the beneficiaries for safeguarding the cultural heritage of the nation and hailed women's contribution in the textile sector.

He also highlighted the significance of textile sector in India as one of the largest employment generation sectors and the benefits provided to them through various schemes of Ministry of Textiles (MoT). Shri. Goyal emphasized on PM's vision for “Ek Bharat, Shrestha Bharat” by amalgamating traditional heritage culture, technological advancement, innovation through research centres and empowerment of women.

[Source - https://pib.gov.in/PressReleasePage.aspx ?PRID=2012035]

Extension of timeline of Samarth-Scheme for Capacity Building in Textiles Sector

Ministry of Textiles (MoT), Government of India has issued the Notification No. 11/04/2020-Samarth dated 07th March 2024 wherein it is notified that with the approval of Department of Expenditure, Ministry of Finance, the Scheme for Capacity Building in Textiles Sector (Samarth) has been further extended beyond 31.03.2024, for a period of one year i.e., from 01.04.2024 to 31.03.2025 within the original approved scheme outlay of Rs. 390 crore.

[Source-chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://samarth-textiles.gov.in/uploads/Extension-scheme.pdf]

Cabinet approves Minimum Support Price for Raw Jute for 2024-25 Season

The Cabinet Committee on Economic Affairs chaired by the Prime Minister Shri. Narendra Modi, has given its approval for the Minimum Support Prices (MSP) for Raw Jute for 2024-25 season. The MSP of Raw Jute (TDN-3 equivalent to earlier TD-5 grade) has been fixed at Rs.5,335/- per quintal for 2024-25 season. This would ensure a return of 64.8% over the all India weighted average cost of production. The announced MSP of raw jute for 2024-25 season is in line with the principle of fixing the MSP at a level of at least 1.5 times all India weighted average cost of production as announced by the Govt. in the Budget 2018-19.

The decision is based on recommendations of the Commission for Agricultural Costs and Prices (CACP). The MSP for 2024-25 season is an increase of Rs.285/-per quintal for Raw Jute over the previous season. In the last 10 years, the Govt. has increased MSP for Raw jute from Rs.2,400 per quintal in 2014-15 to Rs.5,335/- per quintal in 2024-25, registering a growth of 122%.

In the current season 2023-24, the Govt. has procured a record amount of more than 6.24 lakh bales of Raw Jute, at the Cost of Rs. 524.32 crore, benefitting around 1.65 lakh farmers. The Jute Corporation of India (JCI) will continue as Central Govt. Nodal Agency to undertake Price Support Operations and the losses incurred, if any, in such operations, will be fully reimbursed by the Central Govt.

[Source - https://pib.gov.in/PressReleasePage.aspx?PRID=2012358]

Govt is preparing a framework to grant exclusive IP rights to industry and academia to boost Technical Textiles Innovation

In a move to incentivise innovation in the technical textiles sector, the Indian Government is preparing a framework to grant exclusive intellectual property (IP) rights to industry and academia. The proposed guidelines aim to foster the development of copyrights, trademarks, and patents for non-aesthetic textile products used in various industrial applications.

The IP generated through the research initiatives will generally vest with the host institution on behalf of the ministry. However, the government will retain march-in rights, including the option for compulsory licensing, to safeguard public interest in case of exigencies related to the patented technologies. "The idea is to streamline the financial and technical contributions from industry for IPR generation to encourage industry participation," explained a ministry official.

For jointly developed IP, where an academic or public-funded institution collaborates with a private firm, the draft rules propose a two-year exclusive licensing period for the industry partner.

Beyond this period, the IP can be renewed with the same company or made available to other interested parties, subject to milestone achievements and royalty realisation. Emphasising the importance of affordability, the official stressed that technologies and products developed through government funding should be reasonably priced to serve public interest.

The draft guidelines also outline provisions for the government to recover industry contributions made towards indigenous manufacturing of machinery, tools, and equipment for technical textiles through royalties, along with 50% of the total project cost. With 137 projects valued at around Rs. 474 crore already sanctioned under the NTTM, the proposed IP framework aims to catalyse innovation and accelerate the growth of India's technical textiles sector, which caters to diverse industries ranging from agriculture to healthcare and infrastructure.

[Source - https://menafn.com/1108013303/India-Proposes-IP-Rewards-System-To-Boost-Technical-Textiles-Innovation]

iCare digital portal for textile testing and management in India

Intertek based in New Delhi, a Total Quality Assurance provider to industries worldwide announced the launch of iCare in India, where the company plays a pivotal role in supporting the textile industry, following the platform's initial launch in Türkiye last November.

iCare is an innovative one-stop digital portal providing textile manufacturers with a pioneering solution that enables seamless management and monitoring of their testing processes from start to finish. Harnessing Intertek's unique Science-based Customer Excellence Advantage, iCare addresses the long-standing challenges of transparency and traceability in the processing and testing of lab samples, thus removing communication barriers and improving the efficiency at which companies deliver their products to market.

Driven by increasing regulatory scrutiny and heightened end-consumer expectations, customers in the fashion and textile industries are increasingly seeking systemic, data-driven, end-to-end Total Quality Assurance solutions that enhance transparency and traceability, throughout the lab sample processing and testing stages.

iCare provides Intertek's customers with real-time information about the status and progress of their submitted samples through an intuitive and user-friendly interface, allowing customers to interact with us seamlessly through features such as chatbot and live chat. With just a touch or a few clicks, customers can easily perform various actions, such as submitting a test request, tracking job statuses, downloading reports through one centralized digital platform, accessible 24/7.

[Source - https://www.intertek.com/news/2024/intertek-launches-pioneering-digital-platform-icare-in-india/]

Eco-friendly and Revolutionary Innovation in Menstrual Comfort

Eicher Goodearth Private Limited, Gurugram, India has introduced Mahina, a pioneering brand in women's menstrual management and intimate health products. Mahina period underwear pioneers a new era in menstrual care with its innovative features and eco-conscious design. Each product is meticulously constructed to offer unparalleled absorbency and leak-proof protection, empowering women to navigate their menstrual cycles confidently and comfortably. Notably, Mahina stands as India's premier provider of bonded leak-proof absorbent underwear, setting a new standard in menstrual hygiene.

Mahina period underwear eliminates the need for additional pads, tampons, or menstrual cups. Worn like regular underwear, Mahina offers a hassle -free period. The three-layered gusset is crafted from highly absorbent natural materials, efficiently wicking moisture, absorbing liquid, and securing it in place to prevent leaks. Its elongated design from front to back ensures uninterrupted sleep.

Designed for durability, Mahina products are built to last up to 2 years or 100 washes, with stringent testing to ensure no bacterial contamination for complete protection. It is available in four absorbency levels - light (10ml), medium (25ml), heavy (40ml), and super heavy (50ml) - catering to diverse flow needs. With a wear duration of up to 12 hours, Mahina period underwear offers long-lasting comfort without the need for frequent changes or restroom visits. Mahina prioritises user safety by conducting thorough testing and certification to ensure the absence of toxins, providing peace of mind and confidence in product safety.

[Source - https://www.prnewswire.com/in/news-releases/eco-friendly-and-revolutionary-innovation-in-menstrual-comfort-introducing-mahina-period-underwear-302100883.html]

Commercial Production of Poly-Condensed Polyester Chips begins in Panipat, India

UFlex, India's largest multinational flexible packaging and solutions company, announced a significant milestone in its journey of expansion and innovation. Starting March 31st, 2024, the company has successfully commenced commercializing poly-condensed polyester chips at its manufacturing facility in Panipat, India.

UFlex's polyester chips manufacturing plant has an impressive installed capacity of 168,000 metric tons per annum (MTPA) and reaffirms the company's commitment to expanding its vertical integration footprint. The Panipat plant will primarily manufacture poly-condensed polyester chips, which is a key raw material required to produce BOPET packaging films. In addition to catering to its in-house

packaging film production, the facility will cater to third-party customers, contributing to the growth and sustainability of the packaging film industry in India. The Panipat facility complements the company's packaging films India footprint in Noida, the National Capital Region, and Dharwad, Karnataka, further solidifying UFlex's presence and capabilities in serving its packaging film customers across the country.

Speaking on the occasion, Mr. Ashok Chaturvedi, Chairman and Managing Director, UFlex Limited, said, "We are extremely buoyant about the commissioning of our Polyester chips plant in Panipat. Now more than ever, our customers are interested in reliability, speed, and quality in their supply chain, and this expansion will allow us to deliver on those expectations. We are relying on our vertical integration strategy to meet the ever-increasing demand of the packaging industry and are betting on new capacities, and the ability to deliver quality, innovation, and customized solutions that the industry expects from UFlex. Leveraging advanced technology and sustainable practices, the company remains dedicated to delivering superior products and solutions that address the dynamic needs of the packaging market".

[Source-chrome-extension://efaidnbmnnnibpcajpcgl_clefindmkaj/https://www.uflexltd.com/pdf/Press-Release/2024/PN_02Apr24_UFlex_Panipat_

Hengst Filtration Unveils State-of-the-Art Facility in Bengaluru

Hengst Filtration has opened a new site in Bengaluru (Bangalore), India, taking a further step in its international transformation from automotive supplier to filtration specialist for many areas of application. In future, Hengst will produce and sell filtration solutions for the automotive sector, hydraulic applications, medical technology and various branches of industry here - primarily for the Indian market.

"India represents a significant growth opportunity for Hengst Filtration," says Christopher Heine, CEO Hengst Filtration. "The country's growing economy and increasing demand for filtration systems across all industries make it an ideal location for our expansion plans. We are confident that our innovative filtration solutions for industry and the environment will be well received in India."

The site will be headed by managing director Mr. Sandip Metha, who has 28 years of experience in the automotive and industrial sectors. "From automotive to medical technology, our mission is clear: to reduce emissions, protect machines and improve air quality for the people of India," Mr. Metha says. "Each of our products acts as a catalyst for positive change and promotes a cleaner, greener planet. India has exceptional manufacturing capabilities and a skilled workforce. They enable us not only to serve the domestic market but also to expand into international markets."

[Source - https://www.hengst.com/en/company/news/1427-Hengst-Filtration-opens-site-in-Bengaluru--India]

New Textile Park to have ZLD to address pollution concerns

A new textile industry park is set to be established near Ahmedabad, which is anticipated to address the pollution challenges faced by the existing textile industry in Ahmedabad. Being developed by Rupam Eco Green Textile Park, the facility will span across 100 acres of land at Mahijadi village near Ahmedabad. The company had signed an MoU to invest Rs 500 crore for the textile park project in the recently held Vibrant Gujarat Global Summit-2024.

This park will have the necessary infrastructure to support the textile industry. One of the key features of this textile park will be a 6 MLD Zero Liquid Discharge (ZLD) system, which is an advanced wastewater

treatment process that eliminates liquid waste and prevents water pollution. Nandan Shah, chairman, Rupam Eco Green Textile Park said, "ZLD system ensures 96% water recovery which will help us address the pollution problems. Waste water reuse will save 17 crore litre water per month which is equivalent to the water requirement of around 30,000 people. Our project aligns with sustainability goals achieving zero-waste, low groundwater usage and net-zero outcomes. An additional 6 MLD ZLD system is also planned to be developed, ensuring that the park adheres to the highest environmental standards and contributes to sustainable industrial practices." He added that the basic infrastructure will be developed within a year.

The new textile park is expected to attract around 50 textile processing units, which will create numerous job opportunities. The arrival of these units is particularly significant considering the recent challenges faced by the Ahmedabad-based textile industry. Due to stringent pollution control measures, some textile units in Ahmedabad have been shut down for around two years.

[Source- https://timesofindia.indiatimes.com/city/ahmedabad/a-new-textile-park-to-have-zld-to-address-pollution-concerns/articleshow/108798455.cms]

Jindal Advanced Materials ties up with Italy's MAE to invest in Carbon Fibre Plant

Composite materials producer Jindal Advanced Materials (JAM) based in Haryana has collaborated with Italy's MAE S.p.A. to invest Rs 2,700 crore to set up a carbon fibre plant of 3,500 metric tonnes annual capacity. With the development, JAM is set to become a key supplier of carbon fibre.

JAM has signed an agreement with Italian speciality chemical fibre manufacturer MAE S.p.A. to set up India's first carbon fibre facility of 3,500 metric tonnes (MT) annual capacity at an investment of Rs 2,700 crore. The facility will offer a comprehensive range of intermediates viz prepregs, fabrics, multiaxial and carbon fibre composites catering to diverse industrial needs.

JAM's ambitious plan includes the production of low-tow to high-tow carbon fibres, with the capacity expansion projected to reach 10,000 MT by 2027. MAE, known for its expertise and innovation in the field, signed the agreement with JAM at JEC Paris, the largest global industry show for composite materials. The Italian firm will provide top-tier engineering and equipment, ensuring seamless execution of the project. The facility is expected to be operational within 30 months, and the project will cover the entire value chain - from polyacrylonitrile (PAN)- precursor to carbon fibre intermediates.

JAM Director CP Agrawal said, "This collaboration aligns with the 'Make in India' initiative, reflecting JAM's dedication to advancing India's carbon fibre industry across various applications". Jindal Advanced Materials and MAE S.p.A. are set to redefine the landscape of the carbon fibre industry, reinforcing India's position as a global leader in advanced materials manufacturing, Agrawal added.

[Source-https://economictimes.indiatimes.com/industry/indl-goods/svs/chem-/-fertilisers/jindal-advanced-materials-ties-up-with-italys-mae-to-invest-rs-2700-cr-in-carbon-fibre-plant/articleshow/108855314.cms?from=mdr]

Innovation in Moisture Management

UK based Heathcoat Fabrics, a global-leading manufacturer of textile components for military equipment, launched the DRYTEC™ surface-to-surface moisture-wicking spacer fabric. This cutting-edge textile solution is poised to redefine comfort and performance in military gear, offering unique moisture management capabilities and enhanced wearer comfort.

Key features of DRYTEC™ include:

- Advanced Moisture Management: The innovative design of the DRYTEC™ Spacer Fabric enables it to draw perspiration away from the skin, through the spacer, and then disperse and evaporate it on the outside of the fabric. This unique surface-to-surface moisture movement characteristic is designed to ensure personnel remain dry and comfortable when carrying heavy personal equipment.
- High-Wicking Performance: Crafted from a special composition of polyester, monofilament and cellulosic yarns, the DRYTEC™ Spacer Fabric offers unparalleled moisture-management capabilities, keeping the wearer's skin dry and minimizing discomfort caused by moisture accumulation.
- Enhanced Comfort and Breathability: In addition to its superior moisture management properties, DRYTEC™ Spacer Fabric is highly soft, comfortable, and breathable. This ensures optimal thermo-physiological comfort for personnel in various climates and environments.
- Durability and Reliability: Built to withstand the rigours of military use, DRYTEC™ Spacer Fabric is incredibly durable and resistant to wear and tear. Its compressible air gap structure provides shock absorption and weight distribution, making it ideal for use in backpack straps, lumber supports, and ballistic plate carriers.
- Suitability for multiple markets: The key functionality of DRYTEC™ Spacer Fabric makes it highly suitable for many other markets and uses, including healthcare, wound care, sports and leisure apparel.

[Source - https://www.heathcoat.co.uk/drytec-moisture-wicking/]

Transforming Hygiene with plant-based topsheets

Glatfelter, USA has launched GlatPure plant-based topsheets, crafted using advanced spunlace technology in its facility in Asheville, NC. These versatile and innovative topsheets bring together comfort, sustainability, and customisation, offering a variety to fit every need. They redefine hygiene standards, providing a soft and gentle feel with superior performance.

Through advanced spunlace technology, Glatfelter's range of GlatPure topsheets offers a diverse selection of premium, plant-based, and natural fibre options for environmentally conscious consumers. Designed with sustainability in mind, each variant, such as GOTS-certified organic cotton, raw cotton, hemp, Lyocell, and their blends, delivers fast liquid handling, softness, and comfort. Each fibre contributes its own distinct performance attributes, ensuring an optimal level of hydrophilicity and other desired qualities. Whether it's the hypoallergenic appeal of cotton or eco-friendly hemp and Lyocell, these topsheets are uniquely tailored to meet various consumer preferences. Demonstrating remarkable liquid handling capabilities, this range not only exemplifies Glatfelter's sustainability values but also improves the user experience for those searching for environmentally conscious hygiene products.

"Spunlace is an exceptionally clean technology - our solutions contain no binders, adhesives or chemical additives and are manufactured under stringent hygiene controls. Our nonwoven fabrics provide outstanding absorbency with improved strength for wet and dry applications. Our predominantly cellulosic raw materials are responsibly sourced from renewable and certified forest resources which guarantee the chain of custody and ensure responsible management of the world's forests," said Ms. Maria Curran, The Asheville site leader.

[Source - https://www.glatfelter.com/news-events/elevate-your-hygiene-experience-with-glatfelters-glatpure-plant-based-topsheets/]

Adhesive Thermoplastic Elastomer solutions for adhesive films in laminations for textile fabrics

Avient Corporation based in Shanghai a premier provider of specialised and sustainable materials solutions and services, has introduced its new Versaflex TF Adhesive Thermoplastic Elastomer (TPE) solutions for adhesive films in laminations with nylon and polyester textile fabrics. These new solutions help textile fabric laminations to be soft, stretchable, and breathable, enabling a uniform thickness and overall appearance in athletic apparel such as sportswear and underwear.

Versaflex TF Adhesive TPEs offer easy processing and shaping, resulting in a strong adhesion between the TPE adhesive film and high-elastic fabrics. These solutions can support the strength and elasticity of the fabric for superior shape recovery of up to 99% after 300% elongation over 1 minute while also providing excellent washability in various washing machines and modes at temperatures up to 60°C. This new TPE technology can provide a cost-effective alternative to TPU adhesive films and traditional glue, the company said in a press release. With the new Versaflex TF Adhesive TPEs, manufacturers can create close-fitting bodywear textiles that offer consumers a more comfortable exercise experience. Additionally, this technology caters to the growing market for seam tapes.

All Versaflex TF Adhesive TPEs comply with the OEKO-TEX(R) 100-2 standard, do not include plasticisers, and contain lower VOCs than traditional adhesive solutions. Available in coloured or transparent applications, they also show good resistance to discolouration, fading, or hazing. Applications include elastic strips for bodywear and seam tapes for sportswear.

[Source - https://www.avient.com/news/avient-introduces-versaflex-tf-adhesive-tpes-textile-fabrics]

EXPORT-IMPORT TREND OF TECHNICAL TEXTILE PRODUCTS OF JANUARY 2024

(*ITTA Analysis on Ministry of Commerce and Industry Data*)

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

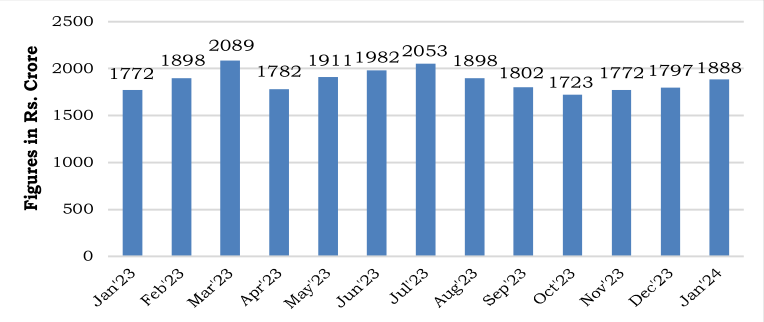
A. EXPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Jan 2023	Jan 2024	% Growth	Apr'22-Jan'23	Apr'23-Jan'24	% Growth
1	Agrotech	81	85	6%	694	737	6%
2	Buildtech	72	68	-5%	751	880	17%
3	Clothtech	24	21	-9%	253	239	-6%
4	Geotech	123	171	39%	1160	1708	47%
5	Hometech	17	8	-55%	196	116	-41%
6	Indutech	232	199	-14%	2162	2328	8%
7	Meditech	194	207	7%	2251	2374	5%
8	Mobiltech	212	253	19%	2042	2563	26%
9	Packtech	549	576	5%	6452	5806	-10%
10	Protech	47	46	0%	624	613	-2%
11	Sportech	91	99	9%	920	973	6%
12	Nonwovens	87	110	26%	953	1178	24%
13	Speciality Fibres	26	26	0%	315	376	19%
14	Composites	17	19	12%	145	218	51%
	GRAND TOTAL	**1772**	**1888**	**7%**	**18918**	**20109**	**6%**

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

Figure 1 - Monthly Trend of Export Performance



There was a dip in the above export figures in month of October 2023, then the export had shown a slight increase from November to January 2024.

Top Ten Exported Products in Month of Jan' 24 -

SR. NO.	HSN CODES	PRODUCT NAMES	VALUES (IN CR.)
1	63053200	Flexible Intermediate Bulk Containers (FIBC)	529
2	59039090	Other fabric plated, laminated, coated, impregnated with other plastics	126
3	56074900	Other cordage of Polyethylene/ Polypropylene	75
4	84212300	Oil or petrol-filters for internal combustion engines	68
5	56031200	Nonwovens of MMF: Weighing > 25 gsm but not > 70 gsm	60
6	87089500	Safety airbags with inflater system	58
7	40093100	Tubes, Pipes and Hoses of Vulcanised Rubber Reinforced/ Otherwise combined only with Textile Materials without fittings	48
8	59029010	Other Tyre cord fabric impregnated with rubber	48
9	56012110	Absorbent Cotton Wool	46
10	53101013	Jute Hessian Fabrics	45

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

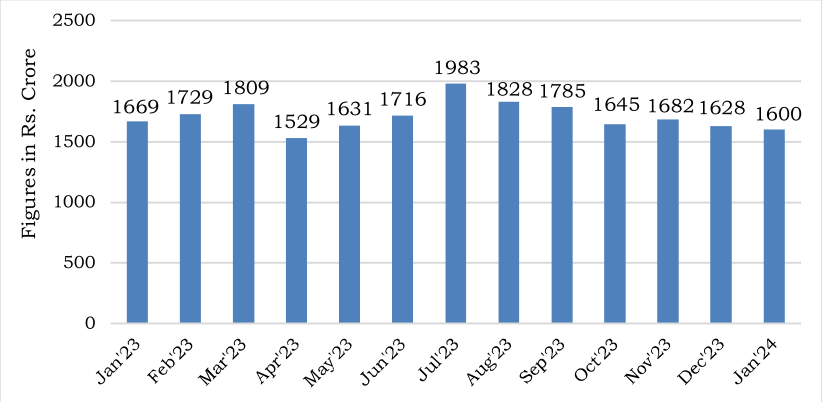
B. IMPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Jan 2023	Jan 2024	% Growth	Apr'22-Jan'23	Apr'23-Jan'24	% Growth
1	Agrotech	37	33	-10%	341	382	12%
2	Buildtech	193	170	-12%	1896	1684	-11%
3	Clothtech	22	23	5%	280	201	-28%
4	Geotech	130	120	-8%	1163	1197	3%
5	Hometech	34	35	1%	331	310	-6%
6	Indutech	244	245	0%	2840	2660	-6%
7	Meditech	144	109	-24%	1262	1138	-10%
8	Mobiltech	419	465	11%	5015	4897	-2%
9	Packtech	62	73	17%	527	701	33%
10	Protech	48	41	-13%	530	501	-5%
11	Sportech	43	41	-4%	484	493	2%
12	Nonwovens	114	103	-10%	1232	1150	-7%
13	Speciality Fibres	183	128	-30%	1858	1613	-13%
14	Composites	13	14	12%	151	186	23%
	GRAND TOTAL	**1686**	**1600**	**-5%**	**17910**	**17113**	**-4%**

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

Figure 2 - Monthly Trend of Import Performance



India's import of TT products had shown an increase in month of July 2023, then the import has registered a decrease from August 2023 to January 2024.

Top Ten Imported Products in Month of Jan' 24 -

SR. NO.	HSN CODES	PRODUCT NAMES	VALUES (IN CR.)
1	87089500	Safety airbags with inflater system	135
2	84212300	Oil or petrol-filters for internal combustion engines	117
3	59039090	Other fabric plated, laminated, coated & impregnated with other Plastics	91
4	59032090	Other fabrics impregnated, laminated, plated, and coated with Polyurethane	70
5	59031090	Other Fabrics impregnated, laminated, plated, and coated with PVC	70
6	54021990	Other high tenacity yarn of Nylon or other Polyester (Less than 840 Denier)	50
7	54022090	Other high tenacity yarn of Nylon or other Polyester (Textured Yarns)	49
8	59021010	Tyre cord fabric of high tenacity yarn of Nylon or other Polyamides impregnated with rubber	41
9	58063200	Narrow woven fabrics of man-made fibres	40
10	53101012	Jute Sacking fabrics	37

***NOTE -**

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

UPCOMING EVENTS

DATES	EVENTS NAME	PLACE	WEBSITE
DOMESTIC EVENTS			
04-07 March 2024	***CHEMTECH WORLD EXPO 2024 (31st International Exhibition & Conference)***	Mumbai, India	https://chemtechie.com/home-chemtech/
13-15 March 2024	***MEDICAL FAIR INDIA (29th International Exhibition and Conference)***	Mumbai, India	https://www.medicalfair-india.com/
20-21 March 2024	***6TH EDITION OF 'RIGHT' HYGIENE Conference & Exhibition on absorbent hygiene products***	New Delhi, India	https://bch.in/right-hygiene-2024
27-28 June 2024	***OSH INDIA SOUTH***	Bangalore, India	https://www.oshindia.com/south-india/
02-05 July 2024	***HGH INDIA 2024 (15th Edition of Home Décor, Gifts & Houseware)***	Mumbai, India	https://hghindia.com/
22-24 August 2024	***10TH EDITION NONWOVEN TECH ASIA (Exclusive Exhibition on Nonwoven & Hygiene Technology)***	Mumbai, India	https://nonwoventechasia.com
29-31 August 2024	***SPORT INDIA 2024 - 12th India International Sporting Goods Show***	New Delhi, India	https://iisgs.com/
19-21 November 2025	***TECHTEXTIL INDIA 2025***	Mumbai, India	https://techtextil-india.in.messefrankfurt.com/mumbai/en.html
INTERNATIONAL EVENTS			
28 February-01 March 2024	***VIETNAM INTERNATIONAL TRADE FAIR FOR APPAREL, TEXTILES AND TEXTILE TECHNOLOGIES (VIATT)***	Ho Chi Minh City, Vietnam	https://viatt.hk.messefrankfurt.com/hochiminhcity/en.html#
29 February-03 March 2024	***IWA OUTDOOR CLASSICS 2024***	Nuremberg, Germany	https://www.iwa.info/en
05-07 March 2024	***JEC WORLD 2024 (International Composites Show)***	Paris, France	https://www.jec-world.events/
06-08 March 2024	***COMPOSITES 2024 INTERNATIONAL CONFERENCE***	Seville, Spain	https://www.setcor.org/conferences/composites-2024
06-08 March 2024	***INTERTEXTILE SHANGHAI HOME TEXTILES SPRING EDITION***	Shanghai, China	https://intertextile-shanghai-hometextiles-spring.hk.messefrankfurt.com/shanghai/en.html
19-20 March 2024	***WORLD AGRI-TECH INNOVATION SUMMIT***	San Francisco, USA	https://worldagritechusa.com/
22-25 April 2024	***IDEA 2024***	Florida, USA	https://www.ideashow.org
23-26 April 2024	***TECHTEXTIL 2024***	Frankfurt, Germany	https://techtextil.messefrankfurt.com/frankfurt/en.html
23-26 April 2024	***TEXPROCESS 2024***	Frankfurt, Germany	https://texprocess.messefrankfurt.com/frankfurt/en.html
April 28-May 1 2024	***GEOAMERICAS 2024 (5th Pan-American Conference on Geosynthetics)***	Toronto, Canada	https://www.geoamericas2024.org/
09-11 May 2024	***7TH AGRO BANGLADESH INTERNATIONAL EXPO 2024***	Dhaka, Bangladesh	https://www.cems-agroexpo.com/
22-24 May 2024	***ANEX 2024 (Asia Nonwovens Exhibition and Conference)***	Taipei, Taiwan	https://www.anex2024.com/
03-05 June 2024	***OUTDOOR BY ISPO 2024***	Munich, Germany	https://www.ispo.com/en/munich
04-08 June 2024	***ITM 2024 (International Textile Machinery Exhibition)***	Istanbul, Turkey	https://www.itmexhibition.com/itm2024
17-20 June 2024	***WORLD OF WIPES 2024 (WOW) (International Conference)***	Minneapolis, USA	https://www.worldofwipes.org
29 June-06 July 2024	***NANOTEXNOLOGY 2024 (International Conferences & Exhibition on Nanotechnologies, Organic Electronics & Nanomedicine)***	Thessaloniki, Greece	https://www.nanotexnology.com

DATES	EVENTS NAME	PLACE	WEBSITE
14-16 August 2024	***INTERTEXTILE SHANGHAI HOME TEXTILES AUTUMN EDITION***	Shanghai, China	https://intertextile-shanghai-hometextiles-autumn.hk.messefrankfurt.com/shanghai/en.html
20-22 August 2024	***TECHTEXTIL NORTH AMERICA***	North Carolina, USA	https://techtextil-north-america.us.messefrankfurt.com
21-24 August 2024	***ICACM 2024 (7th International Conference on Advanced Composite Materials)***	Tokyo, Japan	http://icacm.org/
04-05 September 2024	***INTERNATIONAL COMPOSITES SUMMIT (ICS)***	Milton Keynes, UK	https://www.internationalcompositessummit.com/
19-21 September 2024	***CINTE TECHTEXTIL CHINA***	Shanghai, China	https://cinte-techtextil-china.hk.messefrankfurt.com/shanghai/en.html#
24-26 September 2024	***OUTLOOK 2024***	Rome, Italy	https://www.edana.org/events/outlook/outlook-2024
23-26 September 2024	***EMERGING TECHNOLOGIES CONFERENCE***	Anaheim, CA	https://advancedtextilesexpo.com/
24-26 September 2024	***ADVANCED TEXTILES EXPO 2024***	California, USA	https://advancedtextilesexpo.com/
01-02 October 2024	***RISE 2024 (Research, Innovation and Science for Engineered Fabrics Conference)***	North Carolina, USA	https://www.riseconf.net/
14-18 October 2024	***ITMA ASIA + CITME***	Shanghai, China	https://www.itmaasia.com/shanghai2024/index.html
05-07 November 2024	***WATERPROOF MEMBRANES 202 4***	Düsseldorf, Germany	https://www.ami-events.com/event/F622673A-3032-468C-8AB8-E031E9536242/summary
12-14 November 2024	***FILTECH 2024 (The Filtration Event)***	Cologne, Germany	https://filtech.de/
18-21 November 2024	***HYGIENIX 2024 (The Premier Event for Absorbent Hygiene & Personal Care Products)***	Nashville, USA	https://www.hygienix.org
05-06 December 2024	***SMART TEXTILES AND EMERGING TECHNOLOGIES (STET) - INTERNATIONAL CONFERENCE - 2024***	Virtual	https://texmatresearch.com/stet2024/
11-13 December 2024	***10TH FILTRATION & SEPARATION ASIA (FSA) + 13TH CHINA INTERNATIONAL FILTRATION & SEPARATION EXHIBITION***	Shanghai, China	https://www.fsa-expo.com/
26-28 February 2025	***VIETNAM INTERNATIONAL TRADE FAIR FOR APPAREL, TEXTILES AND TEXTILE TECHNOLOGIES (VIATT)***	Ho Chi Minh City, Vietnam	https://viatt.hk.messefrankfurt.com/hochiminhcity/en.html
29 April-01 May 2025	***IDEA 2025***	Florida, USA	https://www.ideashow.org/
29 April-01 May 2025	***FILTXPO™ 2025 (International Filtration/ Separation Exhibition & Technical Conference)***	Florida, USA	https://www.filtxpo.com/
21-24 July 2025	***WORLD OF WIPES 2025 (WOW) (International Conference)***	Columbus, USA	https://www.worldofwipes.org
04-07 November 2025	***A+A 2025***	Düsseldorf, Germany	https://www.aplusa-online.com
19-22 May 2026	***INDEX 2026 (Nonwoven Exhibition)***	Palexpo, Geneva	https://www.indexnonwovens.com/en/