



INDIAN TECHNICAL TEXTILE ASSOCIATION

E-BULLETIN

e-magazine for members

Issue No.80

September-October, 2022

12TH ANNUAL GENERAL MEETING OF ITTA FY 2021-22 HELD ON 28TH SEPTEMBER 2022



ITTA SIGNED TWO MOUs -

- WITH THE ASSOCIATION OF ITALIAN TEXTILE MACHINERY MANUFACTURERS (ACIMIT), ITALY ON 21ST SEPTEMBER 2022
- WITH SAFETY APPLIANCES MANUFACTURERS ASSOCIATION (SAMA), INDIA ON 28TH SEPTEMBER 2022

NTTM (MOT) APPROVED 60 CR. FUND FOR R&D PROJECTS ON TECHNICAL TEXTILES. TOTAL FUND ALLOCATED RS. 108.6 CR.

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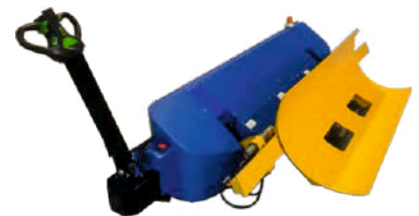
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NEL Lifecare Products (India) Private Limited is a wholly-owned subsidiary of Narendra Emporis Limited. The Promoters of the 'NARENDRA' group started its Business in Textiles in 1997. They took a prominent place in the domestic and international market in the textiles business with the brand name 'NARENDRA.' Then, the promoters and board of the Narendra Emporis Limited decided to diversify its business into the new emerging market of manufacturing of disposable hygiene products such as Adult Diapers, Adult Insert Pad, Underpad, etcetera. The increased admission in hospitals and clinics presents an opportunity for Adult Diapers, Adult Insert Pad, and Underpad. The world is poised to take advantage of this potential growth rate, with a dedicated and experienced staff, excellent order procurement, and effective management and marketing. The initial intention will be to provide hygiene products to institutions and organizations, including hospitals and wholesalers throughout India. Our marketing strategy will be based mainly on ensuring that customers know about our existence and the products we produce. This will be done by implementing a market penetration strategy to ensure that we are well known and respected in the market. In addition, we will ensure that our products' prices are favorable and that our potential customers appreciate the quality of our products. To execute the modern ideas of the Promoters, the Board of Narendra Emporis Limited has incorporated a wholly owned subsidiary, i.e., NEL Lifecare Products (India) Private Limited, in March 2021. In addition, the board has decided to introduce Adult Care Hygiene Products with the brand name "MyGuard" to our proposed customers to help them with medical issues and incontinence to lead a comfortable life.

**We are coming up with 3 products i.e,
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Design to accommodate people with moderate to heavy incontinence, especially if the patient is bed-bound, suitable for men or women to wear.

- 1) Super absorbent polymer & fluff pulp provides superior absorbency, retaining moisture and locking away wetness.
- 2) Standing leak guards provide extra protection to prevent leakage.
- 3) Refastenable frontal tapes for multiple-time applications to get a perfect fit.
- 4) Odour control polymer gel quickly locks away any unpleasant odor.



MYGUARD ADVANCE ECO ADULT DIAPER:

Design to accommodate people with moderate to heavy incontinence, especially if the patient is bed-bound, suitable for men or women to wear.

- 1) Super absorbent polymer & fluff pulp provides superior absorbency, retaining moisture and locking away wetness.
- 2) Standing leak guards provide extra protection to prevent leakage.
- 3) Refastenable frontal tapes for multiple-time applications to get a perfect fit.
- 4) With printed wetness indicator.
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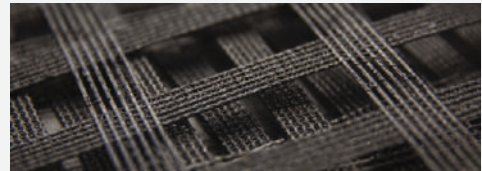
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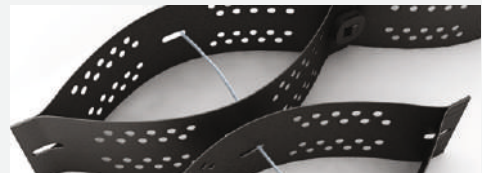
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Mr. Pramod Khosla, Ex-Officio Member

Dr. Anup Rakshit, Executive Director

Mr. Anilkumar Vasupillai, Addl. Executive Director

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EDITORIAL TEAM

Dr. Anup Rakshit, Executive Director
Ms. Ruchita Gupta, Manager (Technical)

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12th Annual General Meeting of Indian Technical Textile Association - FY 2021-2022

The 12th Annual General Meeting of ITTA was held on 28th September 2022 at the Orchid Hotel, Mumbai under the Chairmanship of Shri. Amit Agarwal, Chairman, ITTA. The Chief Guest of the AGM was Ms. Roop Rashi (IA&AS), Textile Commissioner, Ministry of Textiles (MoT), GoI. The AGM was conducted as per the program circulated earlier to all stakeholders.

Dr. Anup Rakshit, Executive Director, ITTA,



welcomed the ITTA Members, the Chief Guest, Directors of ITTA, Eminent Speakers, and representatives of Press present in the meeting. In his brief welcome address, he pointed out that a number of major Schemes on technical textiles (TT) are announced by MoT, GoI in recent years. Industry is confident to achieve significant growth in future. Dr. Rakshit informed that in knowledge sharing session this year two eminent experts will present two unique topics, such as “Laundry Industry for Hospitals- An Overview” by Shri. Vivek Kulkarni, Ex-Head of Technical and R&D, Ecolab India of Ecolab USA and “Opportunities of Rubber reinforced materials used in Technical Textile products” by Ms. Suchismita Sahoo, Sr. Assistant Director, Indian Rubber Manufacturers Research Association (IRMRA). He also highlighted few achievements for TT with the initiatives taken by ITTA - In addition to 207 HSN Codes notified in 2019, another 52 new HSN codes were approved as Technical Textiles by currently CBIC, MoF and now the total figure is 259, ITTA conducted 5 Executive Development

Certificate Programs on key segments of TT i.e., 2 on Protech, 2 on Meditech, 1 on Geotech for benefits of Middle & Senior management level staff of Industry, Academicians, Textile and Managements students. We are also working closely with BIS for formulation of Indian stds on TT & more than 40 ITTA members are active in 10 BIS Sub-Committees on TT and List of 107 TT items have been identified on Agrotexiles, Medical Textiles, Protective Textiles & Geotextiles products to be brought under Quality Control Order (QCO). He expressed his sincere thanks to the Textile Ministry, Government of India for all these initiatives.

Shri. Amit Agarwal, Chairman, ITTA, in his presidential address, welcomed the members, chief



guest, distinguished speakers & Directors of ITTA and also thanked Ministry of Textile for the tremendous support and encouragement that we have been receiving for the technical Textile Sector and an unprecedented amount of focus in the government on growing technical textile by working hard on the schemes like NTTM, PLI, etc. He narrated ITTA's contributions during the year to the growth of Indian Technical Textile Industry. Under NTTM Scheme, 54 Research Projects have been approved in Speciality Fibres, Sustainable Textiles, Geotech, Mobiltech and Sportech worth Rs. 168.6 Crores and Under PLI-1 Scheme, 64 applications have been

approved with total investment of Rs.19,798 crore. PLI-2 are under planning stage. ITTA is also closely working with various State Govts. This year were actively involved with the Odisha & Karnataka Govts. He also shared that the Govt accepted ITTA's Representation & Notified not to impose anti-dumping duty on PU Synthetic Leather from China, Glass fibre from China, Bahrain and Egypt and Caprolactum from Korea, Russia, Europe & Thailand. He further informed that ITTA launched "HALL OF FAME - A Talk Show" on ITTA's Foundation Day on 20th January 2022 and jointly with IFC organised Training Programs on Medical Textiles focusing Reusable PPE products & Recycling of Disposable PPE products. He also mentioned that ITTA has recently entered into an MoU with The Association of Italian Textile Machinery Manufacturers (ACIMIT) - ITALY for close cooperation of our technical textile companies further to boost their knowledge and understanding on the Technical Textile Machines & technology.

BUSINESS SESSION –

Shri. Avinash Misar, Vice Chairman, ITTA conducted the Business Session and the following decisions were taken-

1. ITTA Members unanimously passed - the Directors' Report & Audited Balance Sheet for the FY 2021-22; agreed to appoint M/s. Maitra & Chopra, Chartered Accountants, as Auditors for FY 2022-23.

2. Announcement of new Board of Directors for FY 2022-23 -

The list of Eleven Directors in newly constituted ITTA board is given below -



Sr. No.	NAME OF DIRECTOR	COMPANY NAME	DESIGNATION
1	SHRI. AMIT AGARWAL	CTM TECHNICAL TEXTILES LTD.	CHAIRMAN
2	SHRI. AVINASH MISAR	TEXPORT SYNDICATE INDIA LTD.	VICE-CHAIRMAN
3	SHRI. ANJANI PRASAD	ARCHROMA INDIA PVT. LTD.	DIRECTOR
4	SHRI. GAURAV JAIN	E.I. DUPONT INDIA PVT. LTD.	DIRECTOR
5	SHRI. MAKRAND APPALWAR	IFIBCA	DIRECTOR
6	SHRI. ANKUR KOTHARI	KUSUMGAR CORPORATES PVT. LTD.	DIRECTOR
7	SHRI. SHRAMIK MASTURLAL	MASTURLAL PVT. LTD.	DIRECTOR
8	DR. DHAVAL PATEL	NIKOL ADVANCE MATERIALS PVT. LTD.	DIRECTOR
9	SHRI. VIKRAM JAIN	SBT TEXTILES PVT. LTD.	DIRECTOR
10	SHRI. UDAY K S	SRF LTD.	DIRECTOR
11	SHRI. MAHESH KUDAV	VENUS SAFETY & HEALTH PVT. LTD.	DIRECTOR

3. Announcement of Ex- Officio Member to the ITTA Board -

The list of Two Ex-Officio Member to the ITTA board for one year is given below -

1	DR. SUNDARARAMAN K. S.	SHIVA TEXYARN LTD.	EX-OFFICIO MEMBER
2	SHRI. PRAMOD KHOSLA	KHOSLA PROFIL PVT. LTD.	EX-OFFICIO MEMBER

4. Announcement of Special Invitees to the ITTA Board -

The list of Five Special Invitees to the ITTA board for one year is given below -

1	SHRI KARTHIK KUMAR SUNDARAJ	SIVSHREE MEDITTEX (INDIA) PVT. LTD.	SPECIAL INVITEE
2	SHRI ADITYA MEHTA	MECORDS INDIA PVT. LTD.	SPECIAL INVITEE
3	SHRI. KAPIL BAHETI	SHUBH SWASAN (INDIA) PVT. LTD.	SPECIAL INVITEE
4	SHRI NIRAV MEHTA	DIMA PRODUCTS	SPECIAL INVITEE
5	SHRI VIVEK LOHIA	TARASAFE INTERNATIONAL PVT. LTD.	SPECIAL INVITEE
6	SHRI RAKESH MEHRA	TESCA TEXTILES & SEAT COMPONENTS (INDIA) PVT. LTD.	SPECIAL INVITEE
7	SHRI SIDDHARTH GUPTA	BARNET INDIA MARKETING & DISTRIBUTION LLP	SPECIAL INVITEE

CHIEF GUEST'S ADDRESS -

Speaking on the event, the Chief Guest, Ms. Roop Rashi, Textile Commissioner thanked ITTA for



inviting her and giving the opportunity to interact with technical textile industrialists. She pointed out that MMF and technical textiles segments have significant potential to grow. We are confident that with the various initiatives of the GoI and partnerships of states, our technical textile industry would reach the target. We have Textile Research Institutes, IITs, NITs, etc. who are working on various fibres/ products and patents. We have developed HSN codes which facilitate trade. She emphasized on different schemes such as PLI, PM MITRA, NTTM to augment fundamental research in this potential growth area. She highlighted that a lot of good projects have come in Geosynthetics, Specialty fibres, Sportech, Protech, Agrotech and Geotech. Therefore, a lot more work is being done and can be done. It needs R&D support. However, one bigger issue is that some of the raw material is not made in India. Therefore, a lot of research is going on at present on how to take benefit of what is available with us and make it better. She informed that many of hi-tech machinery required by the Indian textile industry is being imported. However, lot of ground remains to be covered to fill the technological gaps - be it auto coners/winders, shuttleless looms, synthetic dyeing, technical textiles, braiding needle punch, multi axial looms and knitting machines, she emphasised. These tech gaps, she said, are also the opportunities to have joint ventures with international leaders and also attempt to indigenize and innovate the processes in movement to make exports cost competitive. She also pointed out industry needs to work on the standardization of technical textile products. She invited the TT industry to come forward and invest in the TT and the textile ministry will fully support them. She also assured to reduce bottlenecks for the industry and smoothen the facilitation processes.

MOU SIGNED BETWEEN ITTA & SAMA -

During the AGM, Indian Technical Textile Association (ITTA) has signed the Memorandum of Understanding (MOU) with Safety Appliances Manufacturers Association (SAMA) to promote



Technical Textiles in India and abroad. The Chairman ITTA - Shri. Amit Agarwal signed this MoU on behalf of ITTA and Shri. Virendra Jauhari - Hon. Secretary on behalf of SAMA. ITTA & SAMA have joined hands to work together and complete the value chain of health and safety related TT products. It will also create a common platform to share knowledge and help each other to resolve various industry issues.

KNOWLEDGE SESSION -

Abstract of the two presentations in Knowledge Session are given below-

Shri. Vivek Kulkarni, Ex-Head of Technical and R&D, Ecolab India of Ecolab USA spoke about the interesting topic known as "Laundry Industry for Hospitals - An Overview". He talked about the laundry-industry which falls into 2 major categories:



Retail & Institutional. The institutional laundries in India broadly fall into 3 categories i.e., Hospitality industry, Luxury hotels, Health-care sector & Railways. He mainly explained about the Hospital laundries that are hi-tech business, based on contemporary science, engineering and technology. These Hospital laundries are textile-items called as "Hospital Linen". He briefed about the Classification of the textile-items treated in a hospital-laundry are Room-linen= Bed-linen: Bedsheet, bedspreads,

duvet covers, pillow covers, blankets & Bath-linen: bath towel, face towel, hand towel, bath mat, bathing gown, OT-linen= special type of bed-linen & towels in green & blue colour, Uniforms= Doctors, surgeons, paramedics, nurses, ward-boys, patients, F & B linen= napkins & table cloths and Accessories= curtains, sofa-covers, shoe-covers. Chemicals used in a hospital-laundry are Detergent, disinfecting agent, Boost, Bleaches, Neutraliser, Softener, Anti-bacterial agent and most important chemical is Water. Machines used in hospital-laundry are Washer-extractors, barrier washer-extractors, tunnel washers or CBW Continuous Batch Washers, Dryers, Calendar or flat-work ironer, folding & ironing machines and Packing machines.

“Opportunities of Rubber reinforced materials used in Technical Textile products” was presented by Ms. Suchismita Sahoo, Sr. Assistant Director, Indian Rubber Manufacturers Research Association. She



explained in details about IRMRA, its core area of services, introduction to rubber material, conditions of polymers to be rubber and its definition. Types of Rubber/ Elastomers such as General-purpose Rubber: - NR, SBR, PBR etc, Special

purpose Rubber: - EPDM, Butyl, NBR, CR, Hypalon, Silicone, Viton and Thermoplastic elastomer: - SBS, TPU, TPO etc. She mentioned in detail some of the Rubbers such as Natural Rubber (NR), Styrene Butadiene Rubber (SBR), Polybutadiene Rubber (BR), Acrylonitrile Butadiene Rubber (NBR) and Chloroprene Rubber/ Neoprene. Most of the rubber products may be considered as Fibre-Rubber composites where fibres are mainly used in the form of a cord/ woven fabric/ textile. She also pointed some of the textile-rubber composite products i.e., Tyre, Conveyor Belt, Power Transmission Belts, Industrial Hose, Rubberized Fabric- bag, life boat, Shoe and Gloves. Natural & Synthetic fibres used in Rubber products are Cotton, Rayon, Nylon, Polyester, Aramid, Steel and Glass.

Shri. Anil Kumar Vasupillai, Additional Executive Director, ITTA proposed a vote of thanks. Shri. Vasupillai thanked all the Directors, ITTA members



and representatives of Press who were present in the AGM. He specially thanked the Chief Guest and special eminent speakers for making excellent presentations on the technical textiles sector.



ITTA SIGNED MOU WITH SAFETY APPLIANCES MANUFACTURERS ASSOCIATION (SAMA)

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

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



**INDIAN TECHNICAL TEXTILE
ASSOCIATION**

VOICE of Indian Technical Textile Industry



ACIMIT

ITALIAN TEXTILE MACHINERY

Chairman Mr. Amit Agarwal signed the Memorandum of Understanding Between Indian Technical Textile Association (ITTA) and The Association of Italian Textile Machinery Manufacturers (ACIMIT) at Head Quarter of ACIMIT, Milan Italy on 21st Sept 2022 - paving a way for close cooperation of our Technical Textile companies further boost their Knowledge and Understanding of the Italian Textile Machines.

Executives from these ITTA members were present as part of the Incoming Mission from India to Italy and attended the Training Mission on Italian textile Technologies supported by the Italian Trade Agency - Ministry of Foreign Affairs and International Cooperation.

- **Garware Technical Fibers Ltd.**
- **The Arvind Ltd.**
- **Loyal Textile Mills Ltd.**
- **Boda fabrics Pvt Ltd.**
- **Oriental weaving & processing Pvt Ltd.**
- **Nikol Advance material Pvt Ltd.**
- **Narendra Emporis Ltd.**

ITTA hopes further investment by Member companies into the Technical Textile domain and make India the power house of Technical Textile all over the World.



EXPORT-IMPORT PERFORMANCE OF TECHNICAL TEXTILE PRODUCTS OF AUGUST 2022

(ITTA Analysis on Ministry of Commerce and Industry Data)

The data on export and import of 215 technical textile products/items is published as an indicator of foreign trade performance of technical textile industry in India.

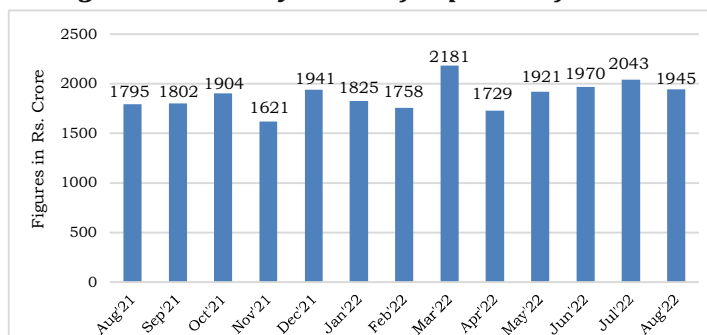
A. EXPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Aug 2021	Aug 2022	% Growth	Apr'21-Aug'21	Apr'22-Aug'22	% Growth
1	Agrotech	50	69	38%	255	343	34%
2	Buildtech	62	68	9%	310	401	29%
3	Clothtech	31	22	-28%	122	125	2%
4	Geotech	218	104	-52%	1108	621	-44%
5	Hometech	24	16	-36%	111	92	-18%
6	Indutech	256	287	12%	1217	1446	19%
07	Meditech	138	223	62%	582	1166	100%
8	Mobiltech	145	188	30%	689	828	20%
9	Packtech	718	705	-2%	3312	3512	6%
10	Protech	37	85	131%	212	317	49%
11	Sportech	70	88	27%	361	471	30%
12	Nonwovens	139	90	-35%	707	571	-19%
	GRAND TOTAL	1888	1945	3%	8986	9893	10%

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

Figure 1 - Monthly Trend of Export Performance



India's import of TT products has registered a steady growth from June to July 2022, then decreased in the month of August 2022.

Top Ten Exported Products in Month of August 2022 -

SR. NO.	HS CODES	PRODUCT NAMES	VALUES (IN CR.)
1	63053200	Flexible Intermediate Bulk Containers (FIBC)	639
2	56074900	Other cordage of Polyethylene/ Polypropylene	82
3	59039090	Other fabric plated, laminated, coated, impregnated with other plastics	66
4	53101013	Jute Hessian fabrics	63
5	84212300	Oil or petrol-filters for internal combustion engines	62
6	87089500	Safety airbags with inflator system	60
7	61152990	Panty Hose and Tights of other fibres	58
8	40093100	Tubes, Pipes and Hoses of Vulcanised Rubber Reinforced/ Otherwise combined only with Textile Materials without fittings	55
9	40151200	Gloves, mittens & mitts used for medical, surgical, dental, or veterinary purposes	54
10	59031090	Other Fabrics impregnated, laminated, plated, and coated with PVC	38

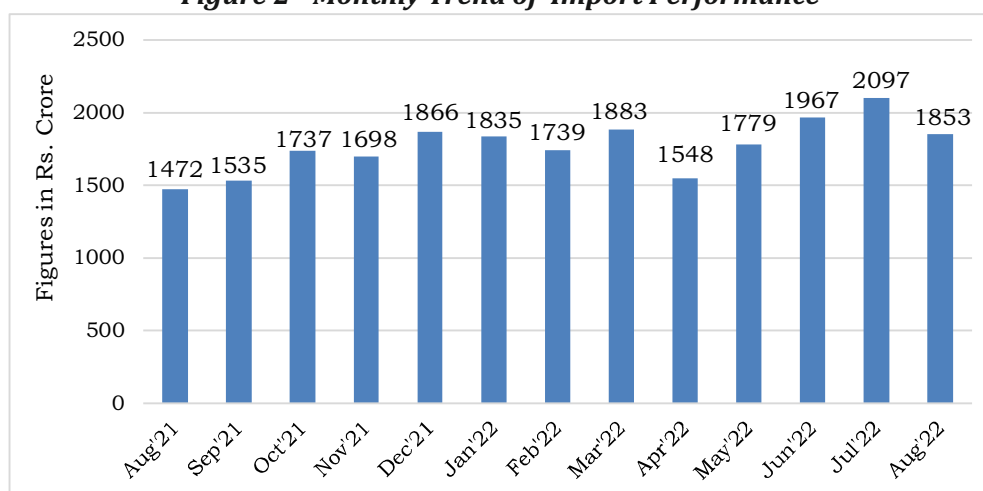
B. IMPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Aug 2021	Aug 2022	% Growth	Apr'21-Aug'21	Apr'22-Aug'22	% Growth
1	Agrotech	36	34	-7%	180	168	-7%
2	Buildtech	114	205	80%	608	1005	65%
3	Clothtech	30	32	10%	121	149	23%
4	Geotech	103	123	19%	634	584	-8%
5	Hometech	26	29	13%	139	176	26%
6	Indutech	283	352	24%	1576	1827	16%
7	Meditech	90	130	44%	415	606	46%
8	Mobiltech	456	583	28%	2444	3121	28%
9	Packtech	63	52	-18%	222	237	7%
10	Protech	60	88	46%	307	415	35%
11	Sportech	21	44	104%	117	273	133%
12	Nonwovens	140	181	30%	747	802	7%
	GRAND TOTAL	1422	1853	30%	7510	9363	25%

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 has registered a steady growth from June to July 2022, then decreased in the month of August 2022.

Top Ten Imported Products in Month of August 2022 -

SR. NO.	HS CODES	PRODUCT NAMES	VALUES (IN CR.)
1	87089500	Safety airbags with inflator system	138
2	59039090	Other fabric plated, laminated, coated & impregnated with other Plastics	87
3	59031090	Other Fabrics impregnated, laminated, plated, and coated with PVC	88
4	59021090	Other Tyre cord fabric of nylon or other polyamides	84
5	59032090	Other fabrics impregnated, laminated, plated, and coated with Polyurethane	79
6	54022090	Other high tenacity yarn of Nylon or other Polyester (Textured Yarns)	71
7	59021010	Tyre Cord Fabric of high tenacity yarn of Nylon or other Polyamides impregnated with Rubber	68
8	84212300	Oil or petrol-filters for internal combustion engines	65
9	70191200	Glass Rovings	55
10	54021990	Glass Fibres: Chopped Strands of a length not more than 50 mm	51



Uster automated fabric inspection

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1. ENGAGEMENTS WITH CENTRAL & STATE GOVERNMENTS

1.1. Meeting of TAMC under ATUFS

The 31st TAMC meetings under ATUFS were held through audio-video conferencing on 14.09.2022 under the Chairpersonship of Textile Commissioner. Dr. Anup Rakshit, ED, ITTA attended the meeting. MOM was circulated to all ITTA members. Major Decisions Taken in TAMC -

- a) 20 machinery manufacturers/ authorized agents were enlisted under ATUFS.
- b) Recommended for release of subsidy of M/s. G. M.

Syntex Pvt. Ltd, Palghar.

- c) To consider the cases which were not imported under EPCG scheme on the basis of documents submitted to custom dept. i.e., in the Bill of Entry if 5% BCD has been charged then the imported Shuttle-less looms and Electronic Jacquard m/c may be considered as Used/ Old and cases where 0% BCD charged in the Bill of Entry may be treated as New.

1.2. Meeting on Implementation of Quality Control Orders (QCO) in Medical Textiles

The meeting on Implementation of Quality Control Orders (QCO) in Medical Textiles under the chairmanship of Shri Rajeev Saxena, Joint Secretary was held on 18.10.2022 at Udyog Bhawan, New Delhi. Shri. Anil Kumar Vasupillai, AED, ITTA attended the meeting. Following Key points were discussed and decided in the meeting -

- a) MOT will go in Phases for implementing the QCO for Medical Products, considering its low risk/high risk categories.
- b) Central Drugs Standard Control Organization

(CDSCO) to list out products from present 54 Medical products list, which products are being covered under their Clause A & B category.

- c) BIS to come out with another 100 QCO list of TT items, for continuing the thrust on Quality drive by the Govt.
- d) JS also mentioned that in the case of Sanitary Napkins, being manufactured by small units and NGOs due consideration will be thought of not to go for QCO in the rural and remote areas of the Country.

2. EVENTS SUPPORTED & CONTRIBUTED BY ITTA

2.1. GLOBALSPIN Trade Conclave & Exhibition on Promotion of Handlooms, Handicrafts and Technical Textiles at Chennai

ITTA supported the Globalspin Trade Conclave & Exhibition on Promotion of Handlooms, Handicrafts and Technical Textiles which was organized by the World Association for Small and Medium Enterprises (WASME) and IAMKHADI Foundation (IAMKHADI) in association with NIFT Foundation for Design Innovation (NFDI), Ministry of Textiles, GoI and also supported by Ministry of MSME, GoI on 21st – 22nd September 2022 in Crowne Plaza, Chennai, Tamil Nadu. On behalf of the ITTA, Shri. D. Devadas, Chief Technical Officer, Loyal Textile Mills Ltd. was invited as a speaker in conclave.

The conclave emphasized on the following segment of Handlooms and Technical Textiles such as Innovation and Technology, Innovative Financing (Debt/ Equity/ Grant/ CSR), Market Access and Linkages, Research and Development & Export Promotion. The main objective was to create a platform for sustainability of MSMEs (artisans, designers, traders, exporters, manufacturers) to not only have market access to Indian consumers but also international market and help accelerating their economic development on sustainable basis & to create a Startup Eco-system in the Textile and Fashion domain.

Shri. D. Devadas, Loyal Textile Mills spoke about the ITTA, its membership categories and its members in different states in India & abroad. He explained about the ITTA's engagements with Central & State Govts. such as IMSC, TAMC & ITC under ATUFS, Mission Steering Group & Empowered Programme Committee (EPC) of NTTM, Working Group on "Sustainability Strategies in responsible Textile Production" by TXC and Technical Advisory Committee on "World Class Conformity Assessment Eco-system for Textiles & Apparels including TT" & "Testing needs for the world class Quality Eco-system in the country" by Textile Committee. He highlighted that ITTA & more than its 40 members represent Ten BIS sub-committees, its global connections with International Finance Corporation, Textile Institute, Taiwan Technical Textile Association & Edana and ITTA's core activities and services. He talked about what is TT and its 13 segments. He also pointed out the Issues impeding growth of TT sector are non-availability of

hi-tech fibres such as Nylon 6.6, Aramids, Modacrylic, Carbon, Basalt, Bi-component Fibres for all types of Cross Sections & polymers, UHMPE, etc., non-availability of domestic machinery of TT in India of good quality & no original IP and low domestic consumption. He mentioned the Key achievements by Govt. to boost TT industry i.e., 52 New HSN Codes are added to TT item list (other than 207 items) in Customs Tariff of India 2022 effective from 01.05.2022 & now the total figure is 259, 92 applications are identified for mandatory use across 9 different user Ministries wherein 72 have been mandated, 54 Research Projects have been approved in Speciality Fibres, Sustainable Textiles, Geotech, Mobiltech and Sportech worth Rs. 168.6 Crores under NTTM, 64 applications have been approved with total investment of Rs.19,798 cr. under PLI & List of 107 TT items having Indian stds of Agrotexiles, Medical Textiles, Protective Textiles & Geotextiles products to be brought under Quality Control Order (QCO).

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Chakala Branch, Mumbai - 400093.
Current Account No - 04220200000491
IFSC Code - BARB0CHAKAL

DEVELOPMENT OF INDIAN STANDARDS ON TECHNICAL TEXTILES

Stakeholder Discussion of Jute, Textiles & Leather Sector for SNAP 2022-27

A meeting with the stakeholders of the Jute, Textiles and Leather sector for developing the Standards National Action Plan (SNAP) for the period 2022-27 in an effort to draw a comprehensive strategy to address the emerging standardization issues by BIS was held on 14.09.2022 in hybrid mode at New Delhi. Dr. Anup Rakshit, ED & Ms. Ruchita Gupta, Manager (Technical), ITTA attended the meeting.

BIS invited ITTA to make a presentation, on behalf of the industry, in the meeting sharing the ideas on the emerging standardization needs and challenges of the Technical Textile sector and expectations from BIS in general.

Dr. Anup Rakshit explained in detail about the identified key areas and subjects of standardization on technical textiles. He pointed out the major source for identifying key areas of TT are Inputs from ITTA & its industry members from all TT segments, TT Products which were removed from the PLI list for not having Indian Stds and TT Products not added in the List of Quality Control Order (QCO) for not having Indian Stds. He highlighted the key areas not having BIS stds i.e., a) Protech: Clothing for Cement workwear, Sub Marine Clothing, Unarmed combat dress, Extreme cold climate clothing, Chemical coverall, Oil protection clothing, Aluminized fire proximity suits, Rucksack, Anti-flash hoods, etc., General - Test method stds

wherever they are missing, shall be provided, Guidance std for recyclability of product after use & Guidance standard for label information on recyclability, b) Indutech: Synthetic hoses & pipes, Synthetic Conveyor & drive belts, AGM Separators for VRLA Batteries, Composite Micro Glass fibre and Speciality fiber based Battery Separators for Lead acid Batteries, 100% textiles recyclable HEPA filters for air conditioners, HVACs, cabin air filtration (instead of metal frame heap filters), etc., c) Buildtech: PVC coated fabrics for tarpaulins, Acoustic Fabrics for Architectural Applications, Scaffolding nets, Inflatables, Woven Coated & Nonwoven wall coverings, etc., Composites & Speciality fibres: Aramid fibre & filament, Basalt fibre & filament, Pre-Oxidised fibre, Ultra-high molecular weight polyethylene staple fibre & filament yarn, Glass & Carbon fabrics for making composites, etc., Mobiltech: Headliners, Seat upholstery fabric & Insulation felts, Sportech: Artificial turf, Sail cloth, Ballooning fabrics, Sport nets & Sportswear- for various applications, Meditech: Surgical Sutures & Medical wipes, Agrotech: Bird & Turf protection nets, Fruit protection covers & Anti-fog protection net, Clothtech: Laces and tapes of narrow fabrics/Braids, Elastic Narrow fabric, Labels and badges & Carpet backing fabrics.



ITTA SIGNED MOU WITH THE TEXTILE INSTITUTE (TI)

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

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

Centre clears 23 Strategic Projects worth Rs 60 Crore under NTTM



MoT cleared 23 strategic research projects worth around INR 60 crores in the areas of Specialty fibres, Sustainable Textiles, Geotextiles, Mobiltech and Sports textiles under the chairmanship of Union Minister of Textiles, Shri. Piyush Goyal on 14.09.2022. These strategic research projects fall under the Flagship Programme NTTM. Among these 23 Research projects, 12 Projects of Speciality Fibres having application areas in Agriculture, Smart Textiles, Healthcare, Strategic Application and Protective gears were cleared. 4 Projects from Sustainable Textiles having application area in Agriculture and Healthcare Sector were cleared. Also, 5 projects from Geotextile, 1 from Mobiltech and 1 from Sportech were cleared.

Member NITI Aayog & Principle Scientific Advisor (PSA) provided inputs pertaining to Technical Textile for the meeting along with Line Ministries. Various leading Indian Institutes including IITs, Government Organizations, and Eminent Industrialists, among others participated 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, 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."

Shri Goyal emphasised on the importance of contributions of technology and segment experts, scientists and academicians to India's technical textiles future growth. He highlighted that the technological gap in the country needs to be addressed in the field of technical textiles. Identification of the area of research in technical textiles with industry interaction and promotional activities like conferences, exhibition, and buyer-seller meet to promote the use of Technical Textile in the country and to increase the exports to be the key focus areas.

[Source - <https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1859806>]

Foreign Trade Policy extended for six months

The government has received requests from Export Promotion Councils and leading exporters that we should continue with current Foreign Trade Policy (2015-20), which had been extended from time to time.

In recent days, exporters and industry bodies have

strongly urged the government that in view of the prevailing, volatile global economic and geo-political situation, it would be advisable to extend the current policy for some time, and undertake more consultations before coming out with the new policy.



The government has always involved all stakeholders in formulating policy. In view of this, it has been decided to extend the Foreign Trade Policy 2015-20, valid till September 30th, 2022 for a

further period of six months, w.e.f. October 1st, 2022.

[Source - <https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1862335>]

CBIC extends validity of scrips issued under RoDTEP and RoSCTL scheme



Central Board of Indirect Taxes & Customs (CBIC), Ministry of Finance (MoF), vide Circular No. 21/2022-Customs and Circular No. 22/2022-Customs dtd 26.09.2022 has revised the Electronic Duty Credit Ledger Regulations, 2021. The amendment seeks to revise the Scheme for Remission of Duties and Taxes on Exported Products (RoDTEP) and Rebate of State and Central Taxes and Levies (RoSCTL) Scheme.

The effect of these amendments is that the validity period of scrips issued under the RoDTEP and RoSCTL schemes is increased from one year to two

years from the date of their generation. At the port, the exporters indicate in the shipping bill the details regarding the claim of the benefits under these schemes with regard to a particular item of export and generates a credit scrip for it. These credit scrips are then used to pay basic customs duties, claim rebates or can be transferred to other importers, as the case may be.

[Source - <https://taxinformation.cbic.gov.in/view-pdf/1003127/ENG/Circulars> & <https://taxinformation.cbic.gov.in/view-pdf/1003128/ENG/Circulars>]

Centre to amend rules to prevent delays & repeated adjournments in IP proceedings

Union Minister of Commerce and Industry, Consumer Affairs, Food and Public Distribution and Textiles, Shri. Piyush Goyal asked IP professionals to cultivate sensitivity in their work so that the Intellectual Property ecosystem does not disrupt good work by denying patents to those who have worked hard on their innovations and truly deserve parent protection. He was addressing the Valedictory Session of National Intellectual Property Conference 2022 on 'Strengthening IP Ecosystem for catalysing the growth of Knowledge Economy' in New Delhi on 15.10.2022.

He said that innovation is doing things better, smarter, faster, more efficiently, cost effectively and sustainably. In this context, he called upon the

innovators of the nation to find low cost, high efficiency technologies to power cycle rickshaws and thus augment the income and make life much easier for those who make their living through these rickshaws. He expressed confidence that India had the potential to become number one in the Intellectual Property arena. He lauded Patent Office for truly re-orienting themselves in the last couple of years but said that further reforms were needed.

Shri Goyal also emphasized that applicants must not be asked to come to offices. He asked that all processes related to application, filing and grant of patents be driven online as soon as possible. He said that the government was already in the process of modifying the law and asked stakeholders to send suggestions, which he said, would carefully be considered and objectively assessed. He called for

streamlining of patent offices and processes and said that nothing should stop us from achieving timely grant of patents and trademarks. He urged that technology be used to the best possible extent and called for complete digitization of all files and creation of smarter IP Offices.

He also said that the government was seeking to expand number of Comptrollers and appealed to former Comptrollers and retired experts to

volunteer to work for a few years to help clear backlogs and historical pendency. He also said that the government was mulling over changing rules to make sure that repeated requests for adjournments are discouraged. We have to bring in high levels of transparency, integrity, efficiency and speed in our IP ecosystem, he underscored.

[Source - <https://pib.gov.in/PressReleasePage.aspx?PRID=1868084>]

Tamil Nadu Govt. Invests in Textile Industry aims to Lead the Country's Production



Tamil Nadu is all set to invest in the upliftment of the state's textile industry. The announcement was made by the Department of Handlooms and Textiles during the two-day Global Spin Trade Conclave and Exhibition in Chennai held on Sept. 21st - 22nd, 2022. As per the dept., it is invested to make the state leader in the Textile industry. As per the plan, the government shall be making a significant investment in the Textile industry to increase its productivity. In a bid to do this, it has signed six MOUs with different companies for producing textiles from natural fibers, using Kalamkari paintings in sarees, and so on.

Talking to the media, Shri. M Vallalar, Commissioner of Textiles said that, "Tamil Nadu is not the leader in technical textiles. In fact, Tamil Nadu is lacking in technical textiles, but it is open to change and is welcoming investments. The State government is developing the technical textiles policy and the policy will soon be launched.

Further, he said, at present, India lags behind China and Europe which are leading 50% of total global textile production. Hence, the department will be conducting regular seminars to attract investments from international technical textiles. He also lauded the state government's effort to launch the mini textile parks scheme. The government is going to offer a 50% subsidy to those companies that register under this park. He also invited entrepreneurs to invest in technical textiles production in the State.

Shri. Rajeev Saxena, JS, Minister of Textile also lauded the central govt's effort to make a leader in the textile industry. The Indian govt. is also planning to organise an international seminar on technical textiles in the near future.

[Source - <https://www.oneindia.com/chennai/tamil-nadu-government-invests-in-textile-industry-aims-to-lead-the-country-s-production-3465532.html>]

India's Ginni Filaments to start wet wipes production at new facility

The Consumer Product Division of Ginni Filaments Ltd, the India-based company engaged in the manufacturing of cotton yarn, knitted fabric, nonwoven fabric, garments, wipes, and liquid cosmetics, commenced production at its new state-of-the-art wet wipes' facility at Panoli in Bharuch

district of Gujarat on September 26, 2022.

The new facility will be the largest wet wipes manufacturing facility in India with capabilities for alcohol, pharma and cosmetic wipes. The facility has FSC Certification, is GMP Certified From FDA, and is

also ISO 9001:2015 and ISO 22716:2007 compliant. With a USP 32 Grade purified water system, the facility includes a Quality Control Laboratory with qualified and calibrated instruments. It also boasts of a Microbiology Laboratory facilitated with stainless steel (SS) doors and puff panels, AHU system to maintain ISO 7 and ISO 8 class area, and passboxes to avoid contamination.

New product development capabilities at the facility include Idea Screening & Product Prototyping, Formulation Development & Testing, Packaging & Graphic Development, Secondary Packing Design & Testing, Formula & Legality Compliances, Products Efficacy & Stability, and Engineering & Sanitary Design Capability. With the commencement of production at the new facility, Ginni will launch Chlorhexidine Gluconate Bed Bath Towel, a first bed bath towel with 5% chlorhexidine as per pharma guidelines. Chlorhexidine has a great antibacterial activity than Benzalkonium Chloride. Chlorhexidine Gluconate can kill 99.9% bacteria and protect from skin infection.

Intimate Hygiene wipes is another product that the company is going to launch. These wipes are designed for women to wipe off intimate area. Using this product will prevent irritation, itching, pain, bad odour, white discharge, and infections in the vaginal area, as it will maintain the desired pH level of 3.5 to 4.5, and contains 1.2% lactic acid which is helpful in growth of the good bacteria. It is also enriched with natural extracts like tea tree oil and sea buckthorn oil which have anti-microbial properties. The company is also set to launch Pure Eyelid wipes, a pharma product which helps to remove makeup and debris, and aids in cleaning eyelids effectively. It also helps to moisturise eyes by counteracting the effects of demodex mites that can lead to blepharitis, the company said.

[Source - <https://www.fibre2fashion.com/news/textile-news/india-s-ginni-filaments-to-start-wet-wipes-production-at-new-facility-283230-newsdetails.htm>]

Andritz to install India's first Metris system for spunlace line



International technology group Andritz has received an order from Welspun Advanced Materials, India, to supply a Metris predictive maintenance system for its spunlace production line at the Telangana plant in India. This will be the first Metris solutions system to be installed in a spunlace line in the country.

The integrated Metris platform developed by Andritz uses smart sensors as an energy self-sufficient and seamless support solution to monitor machine conditions continuously, even in areas that are difficult to access, according to a press release by Andritz. As a result, analysis of the data collected allows clients to pinpoint every possible issue upfront and helps to enhance line performance.

The Metris predictive maintenance system will enable Welspun Advanced Materials to increase its operating efficiency by avoiding unexpected line shutdowns, thus increasing performance; enabling easy operation along the entire line; and optimising maintenance organisation and planning. The order follows the successful start-up of the newly

installed, complete high-speed Andritz spunlace line at the Telangana plant, added the release.

"Implementing such a Metris predictive maintenance system in a spunlace production line is a milestone in India. We are very proud to see our company as a forerunner. The Andritz digitalisation experts have fully supported us in the development of our project and offered tailor-made monitoring and analysis of our plant. This is opening up key perspectives for our future operations, even in the short term, by digitalising our maintenance procedures and checklist routines," said CEO Cherian Thomas.

With the Metris technology brand, Andritz Automation offers a wide range of digitisation products. The proprietary Metris platform adds significant value to the planning, operation, asset management, maintenance, and optimisation of production plants and the associated supply chains.

[Source-<https://www.technicaltextile.net/news/andritz-to-install-india-s-first-metris-system-for-spunlace-line-283673.html>]

MOBILTECH - Flax Fibre components for automotive OEMs

Sustainable Flax Fibre Visual Finish Components



Thailand-based Cobra Advanced Composites (CAC), Cobra Advanced Composites (CAC), the automotive business of composite products manufacturer Cobra International, has launched a range of production-ready, flax fiber based, visual finish components. The new natural fibre composite solutions offer a sustainable option compared to traditional carbon look visual components.

CAC has used flax fiber prepreps with autoclave processing to create the new components. The low-density flax fibers, typically cultivated in Western Europe and much less energy intensive to produce than carbon, provide good impact resistance and excellent vibration damping making them suitable for a wide variety of parts including interior as well as exterior parts.

The new CAC program provides OEM customers with several options to include sustainable natural

fibers: Standard visual carbon twill outer ply with flax fiber backing plies. This option maintains the classic carbon look of a twill weave carbon fabric but substitutes the backing plies (often two plies) for a woven flax prepreg material, Visual flax twill outer ply with flax fiber backing plies. Maximizing the natural fiber content with 100-percent flax fiber reinforcement produces the most sustainable construction and Body color painted flax fiber components. CAC has productionized fully painted flax fiber parts, providing a natural fiber composite option for components where a visual fiber finish is not required.

[Source - <https://www.textileworld.com/textile-world/fiber-world/2022/10/cobra-advanced-composites-launches-sustainable-flax-fibre-visual-finish-components-for-automotive-oems/>]

INDUTECH - Industrial Wash Reflective Transfer Films

Next generation of Industrial Wash Reflective Transfer Films

Industrial garments need to withstand tough conditions, including an increased number of wash cycles, disinfecting wash performance, higher temperatures and harsher washing conditions. To help meet these demands, US based Retroreflective materials manufacturer 3M is introducing the next generation of 3M™ Scotchlite™ Reflective Material Industrial Wash and Industrial Wash Flame Resistant Reflective Transfer Films that offer the strongest wash durability ever offered by 3M. These

new films are designed to increase longevity and help reduce the cost of ownership for specifiers, all in a more sustainable design certified to Oeko-Tex Standard 100.

3M Scotchlite Reflective Material 9725 Industrial Wash Transfer Film is a high-wash performance solution built for the hard-wearing demands of today's world. This new product is designed to: Last

up to 75 industrial wash cycles according to ISO 15797 table 4, procedure 2, Last up to 50 disinfectant industrial wash cycles according to ISO 15797 table 1, procedure 2 and Be suitable for tumble drying and tunnel finishing. This high-performance trim is ideal for use in a wide assortment of industries including manufacturing, industrial, construction, transportation, utilities and first responders.

For flame-resistant safety wear, 3M Scotchlite Reflective Material 9745 Industrial Wash Flame Resistant Transfer Film is designed to: Last up to 100 industrial wash cycles according to ISO 15797 table 4, procedure 2, Last up to 50 disinfectant

industrial wash cycles according to ISO 15797 table 1, procedure 2 and be suitable for tumble drying and tunnel finishing. This high-performance flame-resistant trim is ideal for use in a wide assortment of industries including oil, gas, mining, utilities, and manufacturing. This power-packed range is built to help deliver durability, high brightness, and disinfectant washability, all in a more sustainable design that's certified as Oeko-Tex Standard 100 Class 1.

[Source - <https://www.prnewswire.com/news-releases/3m-scotchlite-reflective-material-launches-the-next-generation-of-industrial-wash-reflective-transfer-films-301641085.html>]

PROTECH - Visibility Workwear

Innovative Visibility Workwear Collection



UniFirst Corporation, a North American leader in providing customized business uniform programs, facility service products, first aid and safety services, announced the addition of Spotlite MV to its core uniform rental offerings, exclusively manufactured by UniFirst. The innovative collection is an industry first, designed to meet the unique needs of workers on the go who require garments that are easy to move in, comfortable, stylish, enhance visibility, and keep up with their active job responsibilities.

The expansive Spotlite MV visibility workwear collection includes pants, shorts, shirts, polos, vests, and jackets in a full array of sizes, colors, and styles for both men and women. The inclusion of a women's fit was an important goal for the company when creating the collection, so that women can feel good in their workwear and excel on the job. Features includes Unique segmented silver reflective striping to enhance visibility in low light

conditions, Lightweight breathable fabric constructed with moisture-wicking technology for unparalleled mobility and comfort, A unique color-block design for a modern style, High-quality garments exclusively manufactured by UniFirst in ISO-9001-certified facilities

The inspiration for Spotlite MV came from the new uniforms UniFirst designed and manufactured for their own team of service workers- the Route Sales Representatives (RSRs)- who service more than 300,000 customer locations daily. UniFirst launched the new RSR uniforms last year, swiftly capturing the attention of customers who wanted the same garments for their teams. With interest growing, UniFirst quickly began developing the Spotlite MV collection as a new customer offering.

[Source - <https://www.bloomberg.com/press-releases/2022-10-25/unifirst-launches-innovative-visibility-workwear-collection>]

Developed Flame Retardant Upholstery Fabrics for Furniture



FRX Innovations Inc., Canada a leader in eco-friendly flame-retardant solutions, has announced a collaboration with Sichuan EM Technology Co., Ltd., China to introduce the world's first halogen-free inherent flame-retardant upholstery fabric solution capable of meeting the stringent British Fire Standard BS 5852; part 1 for furniture, while providing outstanding touch and feel, all in a solution that is environmentally sustainable and permanent. The introduction of this new fabric technology, Glentham® anti-dripping FR Polyester fiber and yarn solution, comes on the heels of new regulations banning the content of Persistent Organic Pollutants like halogenated flame retardants in recycled furniture sold in the UK.

Sichuan has launched a series of fabrics, based on Nofia® Polyphosphonate halogen-free flame retardants, which meet the British Standard while at the same time offer permanence of FR performance after numerous wash cycles. Sichuan's Glentham® anti-dripping FR Polyester fiber and yarn solution,

based on modified polyester fibers with a high Phosphorous content (22,000 ppm), show exceptionally high resistance against ignition in both surface and edge ignition. At the same time, they provide outstanding textile properties such as hand and feel, breathability and abrasion resistance. Nofia Flame Retardants from FRX is the only halogen-free FR technology capable of such high loading in Polyester fabrics.

The fabrics come in blends with wool, cotton or viscose and have the natural feel of the organic fibers, the strength of the polyester and breathability needed for cozy and comfortable seating. With comfort, safety, and sustainability these fabrics will set a new performance bar not previously possible.

[Source - <https://textilevaluechain.in/news-insights/frx-innovations-sichuan-em-technology-co-ltd-jointly-develop-flame-retardant-upholstery-fabrics/>]

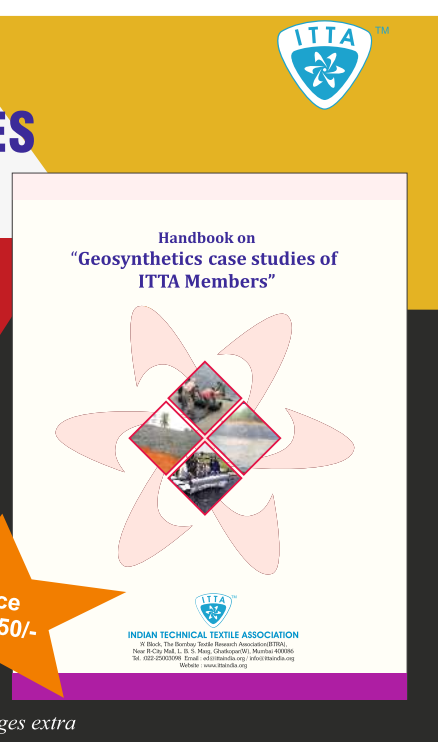
ITTA HANDBOOK ON “GEOSYNTHETICS CASE STUDIES OF ITTA MEMBERS”

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

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

Price
Rs. 750/-

*Courier charges extra





CANDOUR TECHTEX LTD., MAHARASHTRA

Candour Techtex are producing woven lightweight velvet fabrics at 10,00,000 meters/annum at Ankleshwar, Gujarat. Recently, they are setting up a factory at Malegaon, Dist. Nashik for Coating & Lamination plant with a capacity of approx. 3 million meters/ annum. They are expecting to commence the production by January 2023.

RATANMOTI TEXTFAB (I) PVT. LTD., MAHARASHTRA

Ratanmoti Textfab is an experienced textile company established in 1972, having Airjet m/c, Rapier m/c, PLC based high-tech sizing & warping m/cs and winding m/c. They are certified with OEKOTEX, GOTS, BCI, AEO and ISO 9001:2015.

They manufacture exclusive range of industrial & technical textile fabrics such as carbon fabric, glass fabric, aramid fabric, canvas fabric and geogrid fabric for a wide range of applications i.e., automotive, aerospace, industrial, defence and construction.

FORTUNE AGROMARINE LLP, MAHARASHTRA

Fortune Agromarine incorporated in April 2021 is based at Patalganga MIDC, Navi Mumbai, Maharashtra. They have HDPE Yarn Extrusion line, Doubling & Twisting m/cs, Netting m/cs, Length Stretching m/c, Depth Stretching m/c and Braiding m/cs. They make all kinds of Nets like Fishing Nets, Agriculture Nets, Bird Nets, Sports Nets, Construction Nets and Twine - 1400 MT/year.

REINFORCED EARTH INDIA PVT. LTD., DELHI

Reinforced Earth India's state-of-the-art geosynthetics manufacturing facilities are located near Ahmedabad, Gujarat, India and their plant is operational since 2014. The products are accredited by internationally certification agencies such as ISO, CE and NTPEP. Having machineries like Extruders, Creel, Twisting Plant, Plastic Welding m/c, HA Cutting m/c, Rewinding m/c, Forklifts, etc. They produce a wide variety of soil reinforcement products like geostrips/ ecostrap and high strength geogrids - 25000 MT/year with Design Engineering Services.

ITTA DEFENCE HANDBOOK INDIAN TECHNICAL TEXTILE PRODUCTS FOR DEFENCE

- A GLOBAL REACH -

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

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



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For Copies Contact-

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RATANMOTI ADVANCED TEXTILES (RMAT)

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RATANMOTI ADVANCED TEXTILES is equipped with state-of-the-art manufacturing facilities for weaving industrial fabrics which includes the most advanced machinery with a capacity of producing over 4 lakh meters per annum. We weave fabrics up to 7000D yarns & can supply fabric rolls of 2000 meters without joints with heat-setting selvedge in desired widths.

We are capable of weaving :

- Carbon Fabric
- Aramid Fabric
- Glass Fabric
- Nylon Fabric
- Carbogrid for civil applications.
- Silica Fabric
- Filter Fabrics
- Canvas Fabrics
- Hybrid Fabric



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UPCOMING EVENTS

DATES	EVENTS NAME	PLACE	WEBSITE
DOMESTIC EVENTS			
01-03 September 2022	MEDIAEXPO	New Delhi, India	https://media-expo-newdelhi.in.messefrankfurt.com/newdelhi/en.html
15-17 September 2022	SAFETYEX (Fire and Safety Expo)	Gujarat, India	https://www.safetyex.in/
09-11 September 2022	11TH AGRI ASIA (Exhibition on Agriculture Technology)	Gujarat, India	https://www.agriasia.in/
23-25 September 2022	8TH EDITION NONWOVEN TECH ASIA	Delhi, India	https://www.nonwoventechasia.com/
16 th November 2022	NATIONAL CONCLAVE ON TECHNICAL TEXTILE - PROTECH	Delhi, India	http://ittaindia.org/
24-25 November 2022	OSH INDIA	Mumbai, India	https://www.oshindia.com/mumbai/
08-13 December 2022	INDIA ITME 2022 (11th India International Textile Machinery Exhibitions)	Greater Noida, UP, India	https://itme2022.india-itme.com
30-31 December 2022	INOS+H 2022	Mumbai, India	https://www.md-india.com/event/inosh-expo-239.html
02-03 February 2023	FILTREX INDIA	New Delhi, India	https://www.edana.org/events/filtrex/filtrex-india
18-19 February 2023	OUTLOOK™ (Nonwoven, Personal care and Hygiene Conference)	New Delhi, India	https://www.edana.org/events/outlook/outlook-india
22-24 February 2023	TECHNOTEX 2023	Mumbai, India	https://www.technotexindia.in/
01-04 March 2023	ITMACH INDIA 2023	Gujarat, India	https://www.kdclglobal.com/itmach-india-2023.html
INTERNATIONAL EVENTS			
04-07 September 2022	7TH EUROPEAN GEOSYNTHETICS CONFERENCE	Warsaw, Poland	https://eurogeo7.org
06-08 September 2022	CINTE TECHTEXTIL CHINA	Shanghai, China	https://cinte-tehtextil-china.hk.messefrankfurt.com/shanghai/en.html
14-15 September 2022	CONTAMINATION & GEOTECH EXPO	Birmingham, UK	https://www.contaminationexpo.com/
21-22 September 2022	INTERNATIONAL COMPOSITES SUMMIT (ICS)	London, UK	https://www.internationalcompositessummit.com
27-28 September 2022	RISE 2022 (Research, Innovation & Science for Engineered Fabrics Conference)	North Carolina, USA	https://www.riseconf.net/
12 October 2022	IFAI EXPO 2022	North Carolina, USA	https://ifaexpo.com/
17-20 October 2022	CAMX 2022 (The Composites and Advanced Materials Expo)	California, US	https://www.thecamx.org/
19-21 October 2022	OUTLOOK™ (Nonwoven, Personal care and Hygiene Conference)	Malta, Europe	https://www.edana.org/events/outlook/outlook-2022

DATES	EVENTS NAME	PLACE	WEBSITE
31 October-04 November 2022	GEOASIA7 2022 (7th Asian Regional Conference on Geosynthetics)	Taipei, Taiwan	http://www.geoasia7.org/
08-09 November 2022	FILTREX	Berlin, Germany	https://www.edana.org/events/filtrex/filtrex-europe
14-17 November 2022	HYGIENIX 2022	Louisiana, USA	https://www.hygienix.org/
16-17 November 2022	FILTREX ASIA	Shanghai, China	https://www.edana.org/events/filtrex/filtrex-asia
20-24 November 2022	ITMA ASIA + CITME	Shanghai, China	https://www.itmaasia.com/
10-13 January 2023	HEIMTEXTIL FRANKFURT	Frankfurt, Germany	https://heimtextil.messefrankfurt.com/frankfurt/en.html
05-08 February 2023	GEOSYNTHETIC CONFERENCE	Kansas, USA	https://geosyntheticsconference.com/
20-23 February 2023	4th GEOAFRICA (African Regional Conference on Geosynthetics)	Cairo, Egypt	https://geoafrica2023.org/
18-21 April 2023	INDEX™23	Palexpo, Geneva	https://www.indexnonwovens.com/en/
10-12 May 2023	TECHTEXTIL NORTH AMERICA	Atlanta, Georgia	https://techtextil-north-america.us.messefrankfurt.com
08-14 June 2023	ITMA 2023	Milan, Italy	https://itma.com/
17-20 July 2023	WORLD OF WIPES (WOW) (International Conference)	Atlanta, Georgia	https://www.worldofwipes.org/
30 July-04 August 2023	ICCM 2023 (International Conference on Composite Materials)	Belfast, UK	https://iccm23.org
17-21 September 2023	12th INTERNATIONAL CONFERENCE ON GEOSYNTHETICS (ICG)	Roma, Italy	https://www.12icg-roma.org/
10-12 October 2023	FILTXXPO™ 2023	Chicago, USA	https://www.filtxxpo.com
24-27 October 2023	A+A 2023	Germany	https://www.aplusa-online.com/
13-16 November 2023	HYGIENIX 2023	New Orleans, LA	https://www.hygienix.org
In 2023 (Date yet to be announced)	INTERTEXTILE SHANGHAI HOME TEXTILES	Shanghai, China	https://intertextilehome.hk.messefrankfurt.com/china/en.html
22-25 April 2024	IDEA 2024	Florida, USA	https://www.ideashow.org
23-26 April 2024	TECHTEXTIL 2023	Frankfurt, Germany	https://techtextil.messefrankfurt.com/frankfurt/en.html
04-08 June 2024	ITM 2024 (International Textile Machinery Exhibition)	Istanbul, Turkey	https://www.itmexhibition.com/itm2024
17-20 June 2024	WORLD OF WIPES (WOW) (International Conference)	Minneapolis, USA	https://www.worldofwipes.org/