



INDIAN TECHNICAL TEXTILE ASSOCIATION

E-BULLETIN

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September-October, 2019

9th ANNUAL GENERAL MEETING OF ITTA FY-2018-19



MOT RELEASED

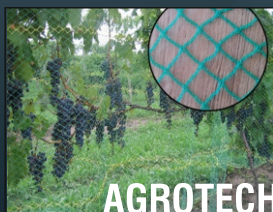
92 TECHNICAL TEXTILE PRODUCTS FOR MANDATORY USE



GEOTECH



PROTECH

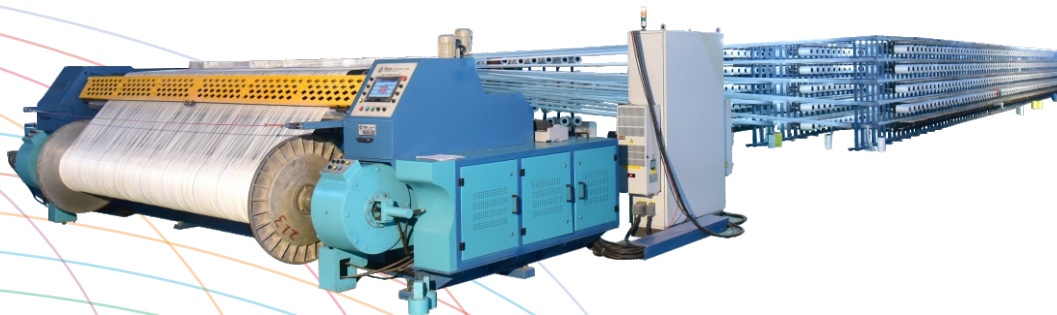


AGROTECH



MEDITECH

Polybeamer with unwinding Creel



Unwinding Creel



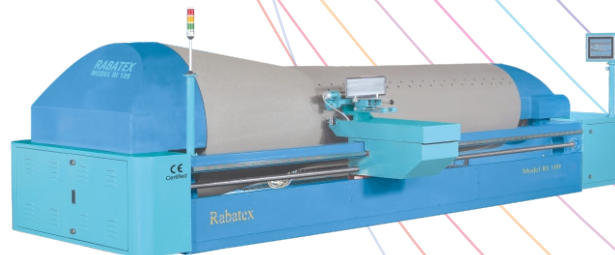
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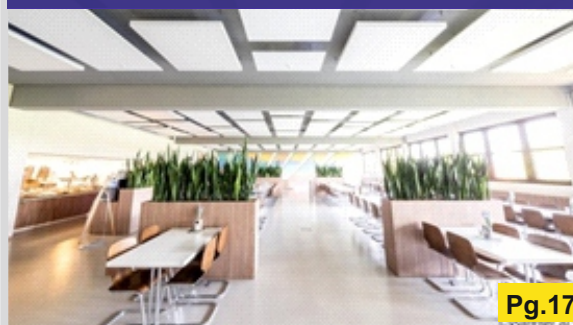
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Smart Backpack with smart touch sensors



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Large, lightweight nonwovens can offer sound reduction



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INDIAN TECHNICAL TEXTILE ASSOCIATION

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SPECIAL REPORT

9th Annual General Meeting of Indian Technical Textile Association- FY 2018-19

The 9th Annual General Meeting of ITTA was held on 30th August 2019 at Mumbai Cricket Association, BKC, Mumbai under the Chairmanship of Dr. Sundararaman K. S., Chairman, ITTA. Business session was followed by Knowledge sharing Session wherein two eminent expert from Industry & Government of Telangana presented different topics of interest to the members.

Dr. Anup Rakshit, Executive Director, ITTA, welcomed the ITTA Members and invitees present in the meeting. In his brief welcome address, he informed that this year ITTA has signed two International MOUs with Taiwan Technical Textile Association (TTTA) & Nissenken Quality Evaluation Centre, Japan (NQEC) which will help Technical Textile companies to seek new collaboration, to explore new investments & to increase the trade of technical textile products with Taiwan & Japan. Dr. Rakshit further informed that in knowledge sharing session this year two eminent experts will present the topics, such as - "Future prospects of the Technical Textiles in India" and "Investment opportunities on Technical Textiles in the state of Telangana". He also enlightened the audience by showing a presentation on ITTA's Activities & Achievements in FY 2018-19 which represents the journey of ITTA during the last year.

Shri. Sundararaman K.S., Chairman, ITTA, addressed the members present in the AGM. With an extremely fruitful year at ITTA, he thanked Ministry of Textile for the tremendous support and encouragement that we have been receiving. He narrated ITTA's contributions during the year to the growth of Indian Technical Textile Industry. He highlighted what Technical Textile Industry & ITTA have achieved during last year i.e. release of 207 HSN codes on Technical Textile, another 40 HSN codes

are finalised under "Others" category and sent to MOC&I, mandatory use of 92 TT products under different Ministries, 6 skilling programs in TT are introduced under SAMARTH scheme, etc. He explained how ITTA is associated with different ministries & associations such as Ministry of Railways (MoR), Ministry of Water Resources (MoWR), Ministry of Defence (MoD), Niti Aayog & Principal Scientific Advisor (PSA) of GOI (PMO), Bureau of Indian Standards (BIS), Textile Institute - WISTI & NISTI, TTTA, Taiwan and Nissenken, Japan to boost TT Industry in India. ITTA is also working on the Defence Booklet wherein ITTA members have given their products list with description & Specifications and removal of ban on single use plastic bag. With the advent of various programs initiated by the Govt. of India it is expected to have an impetus on growth of Technical Textile Industry. He is also confident of larger contribution of ITTA to the growth of the industry.

Shri. Pramod Khosla, Past-Chairman, ITTA, addressed the ITTA members. He appreciated the work done by the Chairman and ITTA team and also the support and encouragements received from Ministry of Textiles (MOT), GOI. He said that today we are in the time of disruption where businesses are not done in the same way. Now we have to look for the new technical textile products. He also highlighted some important point which ITTA needs to work such as increase in the manufacturers of TT machinery, focus on export besides domestic, etc. Lastly he thanked all members for the support provided during past years.

Business Session-

Shri. Amit Agarwal, Vice Chairman, ITTA Conducted the Business Session and the following decisions were taken-

1. ITTA Members unanimously passed the Directors' Report and the Audited Balance Sheet and Income & Expenditure account for the FY 2018-19.
2. ITTA Members unanimously agreed to appoint Messrs. R.A. Sheth & Associates, Chartered Accountants, as Auditors for FY 2019-20.
3. **Announcement of new Board of Directors-**
The list of sixteen Directors in newly constituted ITTA board is given below-

SR. NO.	NAME	COMPANY NAME	DESIGNATION
1	DR. K. S SUNDARARAMAN	SHIVA TEXYARN LTD.	CHAIRMAN
2	AMIT AGARWAL	CTM TECHNICAL TEXTILES LIMITED	VICE-CHAIRMAN
3	PRAMOD KUMAR KHOSLA	KHOSLA PROFIL PVT. LTD.	DIRECTOR
4	NIRAV D MEHTA	DIMA PRODUCTS	DIRECTOR
5	BASANT KUMAR LOHIA	TARASAFE INTERNATIONAL PVT. LTD.	DIRECTOR
6	PANKAJ KAPOOR	PARK NONWOVEN PVT. LTD.	DIRECTOR
7	SHEELAM SHETH	SRF LIMITED	DIRECTOR
8	MAKARAND APPALWAR	IFIBCA	DIRECTOR
9	SANJAY VASUDEO RAUT	GARWARE TECHNICAL FIBERS LIMITED	DIRECTOR
10	SHRICHAND SANTANI	RELIANCE INDUSTRIES LTD	DIRECTOR
11	VIKRAM JAIN	SBT TEXTILES PVT. LTD.	DIRECTOR
12	GAURAV JAIN	E. I. DUPONT INDIA PVT. LTD.	DIRECTOR
13	DHAVAL PATEL	NIKOL ADVANCE MATERIALS PVT. LTD.	DIRECTOR
14	ANJANI PRASAD	ARCHROMA INDIA PVT. LTD.	DIRECTOR
15	SHRAMIK MASTURLAL	MASTURLAL PVT. LTD.	DIRECTOR
16	AVINASH MISAR	TEXPORT SYNDICATE (IND) LTD.	DIRECTOR

Knowledge Sharing Session-

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

“Future prospects of the Technical Textiles in India” was presented by Shri. Shramik Masturlal, MD, Masturlal Pvt. Ltd. He spoke about the definition of technical textile and different applications such as automotive, medical, filtration, shipping, paper industry, etc. He highlighted that Growth prospects in each product area are inevitably linked of the end-use segment but for specific segments will vary widely, but overall, in a developing economy like

India, there are huge prospects for the Technical Textile industry to grow across the entire spectrum of its range. He explained that Indian Technical Textile Industry produce almost everything required as raw materials except the few high performance fibres. These can effectively channelized to look at overseas markets to earn valuable foreign exchange, if not than atleast to serve as a hedge for any downturn in our local markets.

Shri. Mihir Parekh, Director, Telangana State Industrial Infrastructure Corporation presented an interesting topic know as “Investment opportunities

on Technical Textiles in the state of Telangana". He spoke about the Opportunities for Technical Textiles in Telangana. He highlighted the points taken in the Industrial Policy are Land Bank, Uninterrupted Power Supply, Allocation of 10% water in all irrigation sources exclusively for industries, Quality Infrastructure, Effective Clearance Mechanism, Incentivization of Investments, etc. Major Initiatives by Government of Telangana to Support Textile Industry are introduction of online inspection system, textiles identified as a thrust sector for growth and job creation, welfare programmes introduced for weavers; modernization of looms, wage protection, Government procurement, etc., brand Telangana marketing initiative and

establishment of Mega Textile Park at Warangal. Major Provisions and areas of support are Scheme for Capital Assistance (S-CAP), Scheme for Operational Assistance (S-OP), Scheme for Infrastructural Support (S-IP) and Scheme for Capacity Building & Skill Development (S-CAD). He also informed that Technical Textile Industry such as Welspun and P&G have invested in Telangana State.

Shri. Pankaj Kapoor, Director, ITTA proposed a vote of thanks. Shri. Kapoor thanked all the Directors and ITTA members who were present in the AGM. He specially thanked the eminent speakers for making the presentation.

ITTA PUBLICATIONS

Name of the Publication	Price*	Type of Publication
International Conference on "Technology & Machinery Innovations for Technical Textiles" held on 19th January, 2019	₹2000	Seminar Proceedings (CD-ROM)
3 rd Defence-ITTA Joint Exhibition cum Seminar on Technical Textile held on 22 nd & 23 rd May 2017	₹2000	Seminar Proceedings (CD-ROM)
2 nd Defence-ITTA Joint Exhibition cum Seminar on Technical Textile held on 15 th & 16 th June 2016	₹1000	Seminar Proceedings (CD-ROM)
First Indian Navy -ITTA Seminar on Clothing and Footwear held on 7 th & 8 th January 2016	₹1000	Seminar Proceedings (CD-ROM)
Symposium on Medical Textile - Applications & Opportunities held on 14 th July 2015	₹1000	Seminar Proceedings (CD-ROM)
Symposium on Hi Tech Application Areas of Nonwoven held on 30 th Jan 2015	₹1000	Seminar Proceedings (CD-ROM)
Handbook on Geosynthetic case studies of ITTA Members (2013)	₹750	Handbook

* Courier charges extra

For Copies Contact

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MANDATORY USE OF TECHNICAL TEXTILES

MOT RELEASED LIST OF 92 TECHNICAL TEXTILE PRODUCTS

MOT has released the List of 92 application based Technical Textile (TT) products to be mandated by the various Ministries, Government of India.

Category I: Items where BIS standards are available and instructions/notifications have been issued for the mandatory use.

S.No.	NameoftheMinistry	NumberofTTproducts
1	Ministry of Agriculture & Farmer's Welfare	1. Shade net (material only)
		2. Micro irrigation pipe
		3. Insect net (material only)
		4. Vermi bed
		5. Water Carrying pipe
	Total	5(Five)

Category II: Items where BIS standards are available but instructions/notifications have not yet issued for the mandatory use.

S.No.	Name of the Ministry	Number of TT products
1	Ministry of Agriculture & Farmer's Welfare	1. Spunbond nonwoven crop cover (17 gsm/20 gsm/25 gsm/30 gsm) with support structure
		2. Spunbond nonwoven row cover (17 gsm/20 gsm/25 gsm/30 gsm) material only
		3. Spunbond nonwoven fruit bag/bunch cover (17 gsm/20 gsm/25 gsm/30 gsm) with support structure
		4. Woven ground cover fabric (100 gsm)
		5. Jute/coir mulch mat (500 gsm/800 gsm)
2	Ministry of Water Resources	1. Geobags
		2. Geomattress
		3. Geomembranes
		4. Geocell
		5. Geonet
3	Ministry of Road, Transport & Highways	1. Geotextiles woven
		2. Geotextiles non-woven
		3. Open weave JGT / Coir Bhoovastra
		4. Geocomposites
		5. Geogrid
4	Ministry of Railways	1. Geocomposites
		2. Geogrid
5	Ministry of Shipping	1. Geotubes
6	Ministry of Home Affairs	1. Flame retardant Curtains, tents, upholstery etc.
		2. Fire Fighter Suits and Gloves
		3. Protective Work wear

7	Ministry of Health & Family Welfare	1. Surgeons mask disposable
		2. Adhesive plaster
		3. Bandage, crepe
		4. Bandage elastic adhesive
		5. Surgical cotton wool
		6. Surgical dressing
		7. Dressing, medicated gauze paraffin
		8. Paraffin gauze dressings
		9. Knitted viscose primary dressings
		10. Orthopaedic stockinet
		11. Cast padding for orthopaedic plaster
		12. Povidone iodine ointment based knitted dressing- Specification
		13. Graduated medical compression stockings - Specification
		14. Absorbent cotton - Specification
		15. Open weave bandage
		16. Elastic surgical adhesive tape
		17. Nonwoven bandage roll - Specification
		18. Absorbent cotton ribbon gauze
		19. Belladonna adhesive plaster
		20. Salicylic acid adhesive plaster
		21. Tubular bandages
		22. Permeable nonwoven surgical adhesive tape
		23. X-ray detectable absorbent cotton gauze
		24. Elastic adhesive dressings
		25. Adhesive extension plaster
		26. Cotton lint
		27. Cotton gauze
		28. Cotton bandage cloth
		29. Cloth for plaster of Paris bandage
		30. Bandage - suspensory
		31. Gauze swab
		32. Bandage, T-shaped, calico
		33. Triangular bandage
		34. Swabs
		35. Zinc oxide self- adhesive plaster
		36. Crepe bandage
		37. Zinc oxide elastic self adhesive bandage
		38. Elastic bandage
		39. Plaster of Paris bandage
		40. First aid dressings
		41. Slab, Plaster of Paris
		42. Gauze absorbent

		43. Pad abdominal swab
		44. Dressing, First aid, un-medicated sterile pack
		45. Dressing medicated adhesive 20 cm x 6 cm in a single strip pad
		46. Bandage triangular pack
		47. Cotton wool absorbent pkt of 50 g
		48. Bandage 'T' shaped, CALICO
		49. Dressing medicated gauze paraffin
	Total	68(SixtyEight)

Category III: Items where BIS standards have not been issued.

S.No.	Name of the Ministry	Number of TT products
1	Ministry of Agriculture & Farmer's Welfare	1. Harvest net (material only)
		2. Wind shield net (material only)
		3. Fencing net
		4. Plant nets
		5. Nonwoven mulch mat (40 gsm/ 50 gsm/ 70 gsm)
2	Ministry of Home Affairs	1. FR treated Bed roll including bed sheet and pillow
3	Ministry of Health & Family Welfare	1. Adhesive incise drape
		2. Disposable gown
		3. Disposable shoe cover
		4. Pre-op adhesive drape
		5. Transparent incise drape, large
		6. Water proof gowns
		7. Abdominal binder
		8. Dressing. Shell compressed
		9. Dressing, wound care occlusive and hydrocolloid dressing with flexible foam padding for optimum healing 10 cm x 10 cm (Box of 5)
		10. Anti-embolic stocking for post op use upto thigh medium
		11. Pressure garment
		12. Napkin absorbent dental disposable 1' x 1' pack of 20
		13. Hollow fibre used in dialyzer and heart lung machine
	Total	19 (Nineteen)

ITTA ACTIVITIES

DEVELOPMENT OF INDIAN STANDARDS ON TECHNICAL TEXTILES

I. BIS Expert Panel Meeting under Geosynthetics Sectional Committee-TXD30

The 13th & 14th BIS Expert Panel meetings were held on 20th August & 19th September, 2019 at Conference Room, BTRA, Mumbai. Dr. Anup Rakshit, ED, ITTA was the convener. During these 14 Panel meetings held during the last one year, members have developed / prepared following 6 Draft Standards which were time to time submitted to BIS Head Office. BIS has sent these drafts for wide circulation for the comments from all stakeholders.

Product Specifications-

1. "Specification for Geogrids used in Reinforced Soil Retaining Structures"
2. "Specification for Polymeric Strip / Geostrip used as Soil Reinforcement in Retaining Structures".
3. "Specification for Geogrids for Flexible Pavement Structures"

Test Methods-

1. Environmental Degradation of Geogrid (Weathering, chemical and biological degradation)
2. Determination of Installation Damage to Geosynthetics for Soil Reinforcement
3. Pull-out Resistance of Geogrids

Following points were discussed & decisions taken in 14th meeting-

1. Working draft on "Geosynthetics in Bitumen Layers for flexible pavements" was discussed and further comments to be discussed in the next meeting.

2. Preliminary drafts to be prepared on following topics- Geotubes, Geo-composite drains and Prefabricated Vertical Drains.

II. Meeting of BIS Sectional Committee on Technical Textiles for Clothtech Applications (TXD39)

The 2nd Meeting of Technical Textiles for Clothtech Applications, TXD 39 was held on 20th September 2019 under the Chairmanship of Shri A. Chowdhury in the Conference Room at DGQA Complex, Kanpur. As the member of committee, Shri. Vikram Jain, Director, ITTA attended the meeting.

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

1. Committee members revised the name of the committee as "Technical Textiles for Clothtech Applications including Narrow Fabrics and Braids". ITTA gave few members' names from the industry to include in the committee.
2. Shri Vikram Jain will prepare draft revisions of IS 12806:1989 Nonwoven fusible interlinings and IS 12809:1989 Nonwoven sew-in interlinings.
3. 33 Indian Standards were transfer to this Committee.
4. Textiles - Tapes, Cotton – Specification (*First Revision* of IS 6117:1977), Textiles - Braided Tape for Berets - Specification (*First Revision* of IS 8402:1977) and Textiles - Tapes for Slide Fasteners - Specification (*First Revision* of IS 8894:1978) will be issued in wide circulation.

Meeting of the Technical Advisory-cum-Monitoring Committee (TAMC) under A-TUFS

The 14th meeting of the TAMC under ATUFS was held under the Chairpersonship of The Textile Commissioner on 25.09.2019 in the Conference Hall of the Office of the Textile Commissioner. As the member of committee, the meeting was attended by Dr. Anup Rakshit, ED, ITTA. MOM was circulated to all ITTA members.

1. Major Decisions Taken in TAMC

- 1.1. 111 machinery manufacturers/ authorised agents were enlisted under ATUFS.
- 1.2. Split Warping machine was considered under ATUFS and other TUF scheme.
- 1.3. Computerised Flat Knitting machine for Shoe Vamps with width of Minimum 24 was considered with the changes in the machine description.
- 1.4. Inclusion/ Amendment of "Machinery for conversion of nonwovens/ Laminated fabrics into gowns/ pillowslip/ shoe covers/ ice pack body/

ice pack band sealing and cutting/ hand bags/ block bottom valve bags/ filter pocket/ head rest cover/ CD/ DVD cover and other such items with or without ultrasonic slitting machine/ edge sealer" was considered.

- 1.5. It was clarified as there is no double benefit involved on the claims received under SMILE scheme implemented by SIDBI, such cases should be considered as eligible for subsidy under ATUFS.

2. Recommendations of TAMC for taking final decision in IMSC meeting-

- 1.1. To decide on the cases where advance payment up to the limit of its own share/ margin money in machine cost can be made by applicant prior to the date of sanction of term loan should be considered for subsidy.
- 1.2. To allow High Sea Sales for RRTUFS cases converted to ATUFS.

INTEXCON 2019- International Conference was held at IIM Ahmedabad, Gujarat

INTEXCON 2019- an International Conference on "India" - Opportunities for Strategic Investment in Textiles was held on 3rd - 4th October 2019 at IIM Ahmedabad, Gujarat. It was organised by the Diagonal Consulting India. It was a two days conference which was attended by delegates from industries, academic institutes and various service providers apart from the foreign delegates. Dr. J N Singh, Chief Secretary, Government of Gujarat inaugurated the conference.

Two papers were presented from ITTA during the conference - Mr. Anjani Prasad, Archroma & ITTA

Director on "Sustainability" and Dr. Anup Rakshit, Executive Director on "Opportunities & Challenges in Technical Textiles". He highlighted the importance of 12 segments of the Technical Textile, its Current Market Size & Segment wise Growth Rate. He also presented the Export-Import Performance of Technical Textile Products, different manufacturing technologies and raw material issues in High Performance Synthetics Fibres. He explained that to boost technical textile in India, we have to give major thrust to the availability of High Performance Fibres/ filaments- like, Carbon, Glass, Aramid,

HMPE, etc. Steps are taken by MOT on mandatory use of Technical Textile Products to boost the industry. Mr. Anjani Prasad highlighted various aspects of sustainability and how it important for

future. It is also necessary to use eco-friendly dyes, chemicals, manufacturing processes, effluent treatment plants with zero discharge of toxic and harmful chemicals to save environment.

Meeting of the Committee to examine role and functions of Textile Research Association

The 1st meeting of the committee to examine role and functions of Textile Research Association in India was held on 9th September 2019 at NITI Aayog, New Delhi under the Chairmanship of Dr. V. K. Saraswat, Member, NITI Aayog. Representatives from PMO, MOT, BIS, DRDO and Dr. Anup Rakshit, ED, ITTA as a committee member, attended the meeting.

Following major points discussed & decision were taken-

1. It is proposed to have a National Technical Textile Center for Testing. World class testing facilities should be available in the center.

2. Role & management functions of TRAs & COEs will be reviewed. The number of COEs will be consolidated to 4-5 depending on their core strengths.
3. CSIR Labs will be focusing on basic research & responsible for development of high performance fibres.

NITI Aayog will shortly convene a meeting with all TRAs/COEs, ITTA & other high power committee members and some Industry representatives to get their opinions.

Meeting with Chairman and Top Officials of Taiwan Technical Textiles Association (TTTA), Taiwan

ITTA has recently signed Memorandum of Understanding (MOU) with Taiwan Technical Textiles Association (TTTA) to promote Technical Textiles in India and Taiwan. A meeting between Top Officials of TTTA and ITTA was organized on 29th August 2019 at The Orchid Hotel, Mumbai. Delegation from TTTA lead by their Chairman, Mr. Alex Lo along with 10 TTTA members attended the meeting. From ITTA, the Chairman, Vice Chairman, ED and other Directors were present in the Meeting.

Dr Sundararaman K. S., Chairman ITTA welcomed all delegates and said that this is the 1st meeting after the signing of MOU with TTTA. The objective was to have one to one interaction between ITTA & TTTA delegates on exploring

possibilities of joint ventures, R&D, product development, marketing products in each country, jointly organising seminars/exhibitions, etc. Mr. Alex Lo, Chairman TTTA also said that TTTA will be interested to take this relation forward.



Meeting of Expert Committee for Public Procurement (Make in India)

The 2nd meeting of expert committee was held on 24th September 2019 in the Conference Hall of the Office of the Textile Commissioner to review/ assess the domestic manufacturing capacity/ supply base, extent of competition for all 12 segments of technical textile and recommends increase or decrease in percentage of local content of different

technical textile items. As a committee member, Dr. Anup Rakshit, ED, ITTA attended the meeting.

The committee reviews the recommended percentage of local content for Technical Textiles items which are as under –

Segment of Technical Textiles	Recommended Percentage of local content
Buildtech	80%
Meditech	80%
Protech	10-25%
Agrotech	80%
Geotech	50%
Sportech	50%
Packtech	80%
Mobiltech	50%
Clothtech	80%
Homotech	80%
Indutech	50%
Oekotech	60%

In case of Protech & Meditech, list of “Exceptions”, i.e. the products which are not falling under this %age of local content will be prepared and added in the notification.



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 the major events on Technical Textiles/Nonwovens and related industries organized by ITTA & TTTA members.

INNOVATIONS AND TECHNOLOGY

PROTECH - Protective Clothing

Protective Garment for Metal Splash Protection

UK based Coats, the leading industrial thread company, had launched a new product targeting the personal protection sector called FlamePro™ Splash Protect. The flame and heat resistant protective fabric is engineered to be lightweight, soft and flexible while maintaining durability for long lasting wear.

Coats FlamePro Splash Protect is specifically designed to incorporate thermal resistance and metal-shedding properties which protect against radiant heat, flame, metal molten splash and other smelting hazards. The satin feel of the fabric gives it softness and comfort yet it can also withstand molten aluminium at a temperature of up to 760°C. It is anticipated main uses would be by aluminium, iron and steel manufacturers as well as foundries.

Mr. Richard Ridewood, Head of Group Innovation, Coats, said: 'Coats is committed to developing innovative new products to help address the safety and performance requirements of the personal

protection sector. FlamePro™ Splash Protect is a ground breaking product for us which offers comfort, protection and complements our existing



range of flame resistant sewing threads and also extends our offering to customers. FlamePro™ Splash Protect is one of the first commercial launches of a product developed at the recently opened series of Coats Innovation Hubs.'

[Source-<https://www.coats.com/en/Products/Threads-and-Yarns/Flamepro/FlamePro-Splash-Protect>]

MOBILTECH - Airbag

Improved Airbag for urban cyclists

The third generation of a unique airbag for urban cyclists was launched by Hovding, Sweden. In an accident, the Hovding 3 airbag will inflate in 0.1 second to enclose the head and hold the cyclist's neck in place. The third generation of the product is easier to use, can be adjusted in size and is equipped with Bluetooth.

The airbag is stored in a collar with sensors that read the cyclist's movement pattern 200 times per second. When abnormal movement is detected, such as would be caused by an accident, it inflates, to protect the neck and head. According to studies conducted at Stanford University, the airbag

technology is eight times safer than traditional bicycle helmets.

The first generation airbag for cyclists was launched eight years ago, and the company has continued to develop its expertise in airbag technology and algorithm development. CEO Fredrik Carling says, "Our surveys of cyclists in seven major European cities show that 70 percent would cycle more if they felt safer. We have focused on this and want to contribute to greater safety."

Its new Bluetooth feature connects to a smartphone with an app compatible with iOS and Android mobile operating systems. This can inform the user how far



PACKTECH - Backpack

Smart Backpack with smart touch sensors

Google's "Project Jacquard" is back with another fashion collaboration - this time it's a partnership with French luxury fashion house Yves Saint Laurent, France on a Cit-EBackpack with smart touch sensors in the strap to allow the wearer to access a connected smartphone.

The "connected" bag comes with a tiny module that slots into a hole in the main compartment. It connects to the Jacquard app and turns the backpack's left strap into a swipe-based control panel for your phone. The manual says there are four different input gestures -- brush down, brush up, double tap and cover -- and a circular nub that delivers custom alerts.

The backpack comes with a new, revised version of the Project Jacquard tag, which adds a series of new features to the platform. The new tag is designed to integrate seamlessly with Google Assistant to



he or she has cycled and the remaining battery time. The smart connection also offers an ICE (In Case of Emergency) function. This permits a text message to be sent to next-of-kin in the event of an accident involving airbag inflation, including the coordinates of the accident site. The device also has a new, patented airbag, and its battery life has been extended to 12-15 active hours of cycling.

[Source-<https://hovding.com/hovding3/>]

deliver a variety of features, including a weather report, the user's commute, news, and calendar events. Meanwhile, the bag itself is black nylon with a canvas lining and padded straps (the removable smart touch sensor is located in the backpack's left strap). The backpack's interior also features multiple internal pockets, including one for a phone and a larger, padded pocket that could fit a laptop or tablet.

The Cit-e Backpack follows the smart trucker jacket that Google released with Levi's in 2017. The latter was meant primarily for cyclists who couldn't access their phone while riding. By tapping and swiping the left cuff, they could control their music, listen to incoming messages and request turn-by-turn directions, among other small but useful features.

[Source-<https://www.cnn.com/2019/09/06/photos-smart-backpack-from-google-and-yves-saint-laurent.html>]

CLOTHTECH - Industrial Sewing Threads & Biodegradable Textiles

100% Recycled Industrial Sewing Threads

US based Thread maker American & Efird(A&E), released the ECO100, a new line of 100% recycled, industrial sewing threads. The launch of this product line is driven by the company's commitment to sustainability and a surge of

sustainable product pledges and commitments by prominent brands and retailers around the world. Known in the industry as the clear choice for sustainable, ethically-made, sewing threads, A&E's ECO100 product line, that includes Perma Core®

ECO100, Anefil Poly® ECO100, and Wildcat® ECO100, is the latest example of the company supporting its customers through sustainable innovation.

Perma Core® ECO100 features a 100% recycled polyester staple wrap and continuous filament, recycled core. It provides all the great attributes of a sustainable sewing thread without sacrificing sewing performance or thread color limitation. Wildcat® using REPVE® is a 100% REPVE recycled textured polyester sewing thread provides A&E's signature quality allowing you the flexibility to infuse an ecologically-friendly, high performance sewing thread into a wide variety of applications.

Anefil Poly® using REPVE® is A&E's newest in the line of sustainable sewing threads manufactured with Unifi's REPVE fiber. Positioned for use in a number of market segments including footwear, automotive, and outdoor products, this new, Anefil

Poly® using REPVE® fills the need for a sustainable, continuous filament sewing thread in these markets and provides manufacturers, brands, and retailers the ability to complete their respective non-apparel sustainability stories through the manufacturing of environmentally, responsible products.

Mr. Chris Alt, A&E President stated that "Availability of the 100% recycled ECO100 thread line further bolsters an already robust selection of sustainable sewing threads A&E offers in its Eco-Driven® Thread Collection, which includes its popular REPVE and organic thread products." "We work hard to provide the very best sustainable and ethically manufactured, industrial sewing threads."

[Source-<http://www.amefird.com/blog/2019/09/ae-releases-100-recycled-thread-line-eco100/>]

Schoeller Introduces Biodegradable Textiles

Switzerland based Schoeller, the global textile solutions manufacturer introduces its new PROEARTH™ collection of biodegradable textiles. The new collection, comprised of bluesign approved fabrics with biodegradable polyester, will debut as part of its Schoeller FTC (SFTC) line, a joint venture between Schoeller Textil AG and the Taiwanese Formosa Taffeta Co. Ltd., at Premiere Vision Paris, September 17-19, and will then be shown at the Functional Fabric Fair in Portland, Ore., October 22-23.

As the founding developer of the bluesign system, the first active wear and leisurewear manufacturer to receive Oeko-Tex Standard 100 certification, and one of the first companies to sign the UN's Paris Agreement for climate change, Schoeller continues to be on the cutting edge of sustainable practices, bringing one of the first collections of biodegradable synthetic fabrics to the market. Its most recent development, PROEARTH was created to help offset the more than 16 million tons of textile waste produced in the US alone each year.

The SFTC PROEARTH collection will launch with five, bluesign-approved fabrics designed for

lifestyle, fashion and outdoor categories. Made with virgin polyester that has been optimized for biodegradation and has tested to biodegrade at faster and better rates than competitive offerings, the initial PROEARTH articles available this fall include jacket, pant and lining material qualities with various colour options. This collection is not only friendly to our planet but also high-quality, luxurious product that consumers of all sorts will love to wear.

Each of the PROEARTH™ fabrics can be enhanced with Schoeller's eco-friendly production and finishing technology options offered to customers. Its ecodye technology saves up to 30 percent of the water, energy and process time used for dyeing polyester, while its ecorepel Bio and 3XDRI Bio technologies are PFC-free and based on renewable primary products, providing reliable water and aqueous dirt repellence.

[Source-<https://www.snewsnet.com/press-release/schoeller-introduces-proearth-biodegradable-textiles/>]

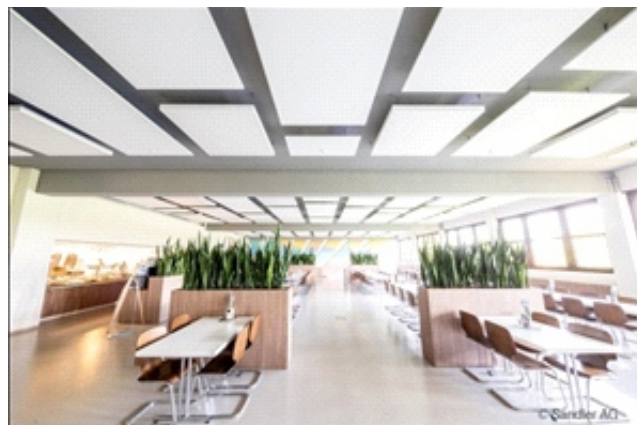
HOMETECH - Nonwovens

Large, lightweight nonwovens can offer sound reduction

Sandler, Germany showcases textile acoustic solutions made of lightweight nonwovens for noise reduction at acoustex trade fair from 1-2 October in Dortmund, Germany. High noise levels in offices, schools, restaurants and other public places - commonplace are disruptive and potentially harmful to health and Sandler's acoustic nonwovens can be the solution. They pave the way for efficient acoustic solutions and provide the basis for communicative yet concentrated work and learning as well as for relaxation in a quiet atmosphere.

Owing to their porous structure, the high-performance polyester fibre panels have proven themselves to be excellent sound absorbers. In wall and ceiling modules, partitions, acoustically efficient wall decoration, and also in furniture nonwovens made from polyester fibres are applied as high-performance sound absorbers and contribute to pleasant interior acoustics.

These single-polymer textiles are produced without any chemical additives and therefore pose no health risks. Containing a high percentage of recycled



fibres, the polyester nonwovens contribute to the conservation of valuable resources and are completely recyclable themselves. They are also resistant to moisture, UV-radiation, and mechanical influences, making them a durable and robust alternative for interior design.

[Source-<https://www.nonwovens-industry.com/contents/view breaking-news/2019-09-11/sandler-to-showcase-acoustics/15325>]

RAW MATERIAL - New Polyimide fibers & Eco-friendly viscose fibers

New polyimide fiber for hot gas filtration market

Austria based Evonik has developed a new generation of polyimide fibers for the rising demands of the industry. The new product, brand named P84® HT, is distinguished by improved mechanical stability and flexibility at continuously high operating temperatures. The new polyimide fiber continues Evonik's three decades of tradition of developing and producing high-performance polymer-based fibers for the hot gas filtration market at the Group's Lenzing/Schorfling sites in Austria.

With their unique multilobal cross-section and the largest surface area available in the market, these high-tech fibers from Evonik offer the best filtration

efficiency. Due to their excellent chemical and physical properties, P84® HT high-performance fibers can be used in a wide variety of applications. These range from filter media for high-temperature filtration, through protective clothing and sealing materials for space vehicles, to various high-temperature applications such as thermal insulation.

Another competitive differentiating factor of P84® HT consists in the improved textile properties at high temperatures. The new polyimide fiber from Evonik retains its flexibility better than other materials, even at temperatures around 280°C. As a result, it remains more stable in applications with

relatively high average temperatures and frequent temperature spikes. A standardized bending test shows that the new P84® HT fiber has almost twice the flexibility of standard materials.

In hot gas filtration applications, for example, the innovative P84® HT filter media retain significantly higher permeability over their entire life cycle.

Depending on the field of application, this could reduce emission of fine dust, waste gases and sensibly reduce the total cost of ownership of the plant.

[Source-<https://corporate.evonik.com/en/pages/article.aspx?articleId=117720>]

Eco Care Technology for producing viscose fibers

Lenzing Group based in Austria has introduced Eco Care technology, which enhances the production of eco-friendly viscose fibers for the nonwovens industry. Eco Care technology features an eco-responsible production process that is guided by the rules underlying the EU Ecolabel¹, a label of environmental excellence that is awarded to products and services meeting high environmental standards throughout their life-cycle². The manufacturing of Veocel Specialty Viscose fibers with Eco Care technology generates up to 50% lower emissions and water impact compared to generic viscose.

Enabled by Eco Care technology, Veocel Specialty Viscose fibers originate from sustainably managed wood sources and are ideal for many nonwovens applications in the baby, body and home segments, especially for various types of dry and wet wipes, sanitary pads for adult and feminine uses, and diapers. Veocel Specialty Viscose fibers build the common ground for innovative and sustainable solutions in the nonwoven industry and represent a versatile blending partner for other cellulosic fibers such as lyocell.

“We have recently unveiled the new certification criteria for VEOCEL™, helping to establish the brand as a label of trust along the entire value chain. The Veocel brand logo can now be featured on products which use blends of raw materials that are entirely cellulosic and biodegradable. The introduction of the Eco Care technology is another key breakthrough for the Veocel brand, as it now enables Veocel branded fibers to be used in a wider range of nonwoven products, creating a greater sustainability impact in the industry. Moving forward, Veocel™ Specialty Viscose fibers with Eco Care technology will serve as an affordable sustainable alternative for nonwoven applications by making more sustainable viscose available,” said Mr. Jurgen Eizinger, Vice President of Global Business Management Nonwovens, Lenzing AG.

[Source-https://www.nonwovens-industry.com/contents/view_breaking-news/2019-09-23/lenzing-introduces-eco-care-technology/15325]

New Members

DUGARPOLYTEXPVT.LTD.,GUJARAT

(Mob:9824214810;EmailId:tkdugar@gmail.com)

Dugar Polytex introduced the manufacturing of Agro-shed net in Gandhidham, Gujarat. Their range of products includes Agro-shed net, green net, mulch film and bird net. They have production capacity of 720 MT/year for green net. They have warp knitting machine (2 bars & 4 bars) for manufacturing warp knitted fabrics for above products.

National News

Telangana has inked 16 MoUs for Kakatiya Mega Textile Park

Telangana has entered into 16 agreements with various firms to set up factories at the Kakatiya Mega Textile Park in Warangal. The process of land allotment is under way and direct and indirect employment for 1.13 lakh people would be generated after full implementation of the project, State Industries Minister Shri. K.T. Rama Rao told the State Assembly on 20th September 2019.

Two institutes - textile training college of PSG College, Tamil Nadu and National Institute of Fashion Technology, Hyderabad - also inked MoU for setting up their centres in the textile park. Among those who are establishing base at the park, Warangal-based Kasam Industries will be setting up to Rs.100-crore textiles manufacturing unit at the

park. The unit, comprising spinning and yarn mills, may also have a dyeing unit.

One of the largest investments in the park is the Rs. 1,700 crore plant set up by the Welspun Group, which is ready to start production. In addition, the Pashupati Group is investing Rs. 240 crore in the park while Proctor & Gamble is setting up a technical textiles unit. Also in the pipeline is another factory to be set up by Ganesha Ecosphere, Shri. Rama Rao said.

[Source-<https://www.fibre2fashion.com/news/textile-news/telangana-has-inked-16-mous-for-kakatiya-mega-textile-park-252171-newsdetails.htm>]

India to benefit from the imposition of US duties on Chinese imports

The trade conflict between the US and China may be unsettling global trade. But home-textile exporters from India see a silver lining, though benefits could be insignificant if US demand remains subdued. Indian companies expect to benefit from the imposition of US duties on imports from China. Beginning September, import duties will kick in on home textiles, including towels and sheets.

India is a large producer and exporter of such products. As US buyers diversify their purchases, local companies can expect to benefit. "Indian home textile exporters stand to benefit in volumes/market share if the duty persists," analysts at JM Financial Institutional Securities Ltd. said. Domestic home-textile producers echoed the view. In an interaction with analysts, managements of Welspun India Ltd., Indo Count Industries Ltd. and Himatsingka Seide Ltd. alluded to the advantageous context the tariffs create for Indian companies in the US market.

But, as Mr. Shrikant Himatsingka, Managing Director and Chief Executive Officer of Himatsingka Seide said that "In pure theory, I should say the probabilities favour India in terms of being a preferred source. So, we all remain on observation mode in terms of what really transpires when these tariffs take effect. It definitely raises interest, but transmission at this point is muted".

Separately, data compiled by JM Financial showed a notable year-on-year expansion in India's share in June, as China lost market share. For the year to June, India's share has largely been steady. A significant portion of China's share is being captured by other emerging countries such as Vietnam and Bangladesh, said an analyst. Compared to India, these countries have better trade pacts with the US and offer superior incentives to their domestic producers, sharpening their competitive edge, added the analyst.

"In anticipation of a slowdown, retailers are probably looking at re-calibrating their off take so that nobody wants to sit on a large pipeline. That is the impact which we will see. As we head toward the holiday season, we might see that this situation

could be recalibrated," Welspun India told analysts.

[Source-http://www.yarnsandfibers.com/news/textile-news/india-benefit-imposition-us-duties-chinese-imports#.XZbk_dIzblU]

Welspun India eyes home textiles in premium segment

Welspun India, one of the largest suppliers of home textiles to retailers like Walmart, Costco and others, is focusing on the domestic market; even as it eyes Rs. 10,000 crore of revenue over the next four to five years. While bed sheets and towels continue to be amongst its two most popular offerings, the company is planning to bring premium offerings in flooring solutions like artificial grass and carpet tiles. Welspun India reported net sales of about Rs. 6,608 crore with a profit before tax and exceptional item of Rs. 552 crore in FY19. Exports to markets like US, Europe and the Middle East account for over 90 per cent of its turnover.

Mr. Altaf Jiwani, CFO, Welspun India, said that the company will look at "differentiated offerings" here. For instance, it has introduced 'reversible bed sheets' and quick-dry towels. It has also roped in actor Amitabh Bachchan as the brand ambassador. The company also sells premium licensed brand products like Wimbeldon, Nickelodeon and Disney. Branded products account for 17 per cent of its revenues.

"We are continuously working on innovation and adding new products to our portfolio. Advanced

textiles are something that we are looking at in the coming days which include making disposable towels out of non-woven textiles and filters for auto and power sector. Advanced textile will broad base its clientele by adding sectors such as auto, healthcare and FMCG."

The second emerging business segment is flooring. Welspun is looking at offering luxury performance tiles, wall-to-wall carpets and artificial grass for offices, cricket fields. Mr. Jiwani said that the company is investing nearly Rs. 1,100 crore in its Hyderabad facility and offerings are expected to hit the market any time soon. "Currently, most wall-to-wall carpets, carpet tiles, luxury performance tiles are exported from China, USA, Belgium, Thailand. But, floorings are a huge market that we now want to cater to. Over the next 4-5 years, the advanced textiles and floorings segment has the potential to generate Rs. 3,000 crore of revenue," he said.

[Source-<https://www.thehindubusinessline.com/companies/welspun-india-eyes-home-textiles-in-premium-segment/article29577329.ece#>]



ITTASIGNEDMOUWITHTHETEXTILEINSTITUTE(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.

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Members' Forum

RABATEX INDUSTRIES

A new player starts in the market for warp preparation machines in India

On 29th March 2019, KARL MAYER, RABATEX INDUSTRIES and A.T.E. signed a contract for setting up a joint venture. The legally independent company is called KARL MAYER Textile Machinery India Private Limited, has its registered office in Mumbai and production facility in Ahmedabad.

KARL MAYER is the majority shareholder and takes responsibility for the management of the new company. KARL MAYER Textile Machinery India Private Limited will focus mainly on the manufacturing and sale of warp preparation machines and creels mainly for Indian market, as well as service and spare parts sale for warp preparation and warp knitting machines.

By means of the newly founded entity, the joint venture partners aim to enhance their position and distribution in the Indian market. Moreover, it is intended to make good use of the existing competencies and synergies, especially in terms of purchasing and customer service.

With the further development of our international organization, and with our proven way to produce in our main markets, we want to continue to make a contribution to the long-term success of our customers. We are really proud of setting up this joint venture. By pooling our strengths, we will be able to even better support our customers, being close to them in the local market", explains Arno Gärtner, CEO of the KARL MAYER Group.

The special contribution of KARL MAYER and RABATEX INDUSTRIES to the joint venture will be production know-how and manufacturing capabilities in the sector of warp preparation machines. Both companies are important players in the warp preparation industry", says Roland Kohn, President of the Business Unit Warp Preparation of the KARL MAYER Group.

A . T . E . enriches the group due to its proximity to the market and

its strength in customer support. The company has already been KARL MAYER's distribution partner for many years. We are honoured to deepen our relationship with KARL MAYER and start a new relationship with RABATEX INDUSTRIES with this new joint venture. We thank our many customers that have encouraged us to take this step with their continuous support. We are confident we will be able to serve them better" says Anuj Bhagwati, Managing Director of A.T.E.

Dr. Pawan Kumar Singh, Managing Director of KARL MAYER Textile Machinery India Private Limited underlines this statement: We are striving for market leadership in India and supporting the 'MAKE IN INDIA' initiative of the Government of India. By combining our know-how and our resources in the field of warp preparation machines, we can provide solutions to our customers with exactly those things which they require for their competitiveness, from production to customer service and support".

RABATEX INDUSTRIES also relies on the synergies of the new relationship. RABATEX INDUSTRIES is excited about this association with KARL MAYER, a technology leader in warp preparation machine industry and A.T.E., India's leading customer focused textile machinery marketer. Our respective strengths will help us in providing advanced technology machinery backed by professional after sales service to the Indian textile industry", said Haresh Panchal, Managing Partner of RABATEX INDUSTRIES.



EXPORT-IMPORT PERFORMANCE OF TECHNICAL TEXTILE PRODUCTS OF AUGUST-2019

The data on export and import of 207 technical textile products/items is published as an indicator of foreign trade performance of technical textile industry in India.

EXPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Aug. 2018	Aug 2019	% Growth	Apr-Aug 2018	Apr-Aug 2019	%Growth
1	Agrotech	61	48	-22%	243	248	2%
2	Buildtech	60	49	-18%	279	300	7%
3	Clothtech	16	19	20%	76	84	11%
4	Geotech	78	85	9%	352	374	6%
5	Homotech	7	14	101%	31	57	85%
6	Indutech	146	155	6%	630	814	29%
7	Meditech	86	87	1%	388	441	14%
8	Mobiltech	123	111	-10%	586	592	1%
9	Packtech	538	487	-9%	2258	2256	0%
10	Protech	54	78	43%	168	239	43%
11	Sportech	17	16	-7%	77	98	27%
12	Nonwoven	83	81	-2%	405	426	5%
	GRAND TOTAL	1269	1230	-3%	5493	5929	8%

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

ITTA Analysis on data (Apr-Aug'18 vs. Apr-Aug'19) of Top Three Growth Sectors-

- Homotech(+85%)**-Key Products: Nylon & Polyamide fabrics, Painted canvas, Knitted gas mantle fabrics & Leather cloth laminated with Polyurethane.
- Protech(+43%)**- Key Products: Men's & Women's Personal protective garments, Knitted rubberized textile fabrics, Electrical insulating tape of cotton.
- Indutech(+29%)**-Key Products: Conveyor belts reinforced with textile materials, Nylon rope, Cotton twine & cordage/ rope, Woven felts & Computer printer ribbon

IMPORT PERFORMANCE*(Value in INR Cr.)*

Sr. No	Segments	Aug. 2018	Aug. 2019	%Growth	Apr-Aug 2018	Apr-Aug 2019	% Growth
1	Agrotech	21	29	35%	115	160	39%
2	Buildtech	189	178	-6%	899	423	-53%
3	Clothtech	16	18	14%	88	120	36%
4	Geotech	138	140	1%	727	713	-2%
5	Homotech	46	53	14%	208	257	23%
6	Indutech	262	230	-12%	1174	1112	-5%
7	Meditech	83	57	-32%	308	245	-21%
8	Mobiltech	446	402	-10%	2155	2165	0%
9	Packtech	23	33	40%	127	208	64%
10	Protech	41	49	19%	158	211	34%
11	Sportech	12	11	-9%	49	49	0%
12	Nonwoven	175	164	-6%	771	743	-4%
	GRANDTOTAL	1452	1364	-6%	6779	6406	-6%

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

ITTA Analysis on data (Apr-Aug'18 vs. Apr-Aug'19) of Top Three Growth Sectors-

- a) **Packtech(+80%)**-Key Products: Sacking fabrics & Hessian fabrics.
- b) **Agrotech(+39%)**- Key Products: Shade nets & Fishing nets
- c) **Clothtech(+36%)**-Key Products: Nylon Taffeta, Dyed Umbrella Cloth & Knitted/Crocheted fabrics - width < 30 cm

UPCOMING EVENTS

SEPTEMBER 2019

5TH ICC - International Composites Conference
10-12 September, 2019, Messe Stuttgart, Germany
Web: <https://www.composites-germany.org>

Composites Europe - Trade Fair
10-12 September, 2019, Messe Stuttgart, Germany
Web: <https://www.composites-europe.com>

Additive Manufacturing for Composites Workshop
25 September 2019, Anaheim, California, USA
Web: <https://www.additiveconference.com/composites>

Research, Innovation & Science for Engineered Fabrics (RISE)
24-25 September 2019, Raleigh, North Carolina, USA
Web: <http://www.riseconf.net>

10TH International Conference on Textile Coating and Laminating Technology 2019
26-27 September, 2019 at 3Square, Drogen, Belgium
Web: <https://www.composites-europe.com>

OCTOBER 2019

IFAI Expo 2019
1-4 October, 2019 in Orlando, Florida
Web: www.ifai.com

Thermoplastic Composites
3 October 2019, London, UK
Web: <https://compositesuk.co.uk/events/thermoplastic-composites-2019>

Fabric Property Development & Characterization
8-11 October 2019, Raleigh, North Carolina, USA
Web: www.inda.org/education/advanced-training.php

OUTLOOK™ 2019
9-11 October, 2019 at InterContinental Athenaeum Hotel, Athens, Greece
Web: www.edana.org

Turkish Composites Summit
10-12 October 2019, Istanbul, Turkey
Web: <http://turk-kompozit.org>

Composites in Motorsport
22-23 October 2019, Oxford, UK
Web: <https://compositesinmotorsport.com>

Filtech
22-24 October 2019, Cologne, Germany
Web: <http://www.filtech.de>

NOVEMBER 2019

A + A 2019
5-8 November 2019 in Dusseldorf, Germany
Web: <https://www.aplus-a-online.com/>

Hygienix
11-14 November 2019, Houston, Texas, USA
Web: <https://www.hygienix.org>

EurAsian Geosynthetics Symposium
18-19 November 2019, Beijing, China
Web: <https://www.edana.org/education-events/conferences-and-symposia/event-de>

Techtextil India 2019
20-22 November, 2019 at Bombay Exhibition Centre, Goregaon, Mumbai
Web: <https://techtextil-india.in.messefrankfurt.com>

8th OSH India (Mumbai) 2019
28-29 November 2019 at Bombay Exhibition Centre, Goregaon, Mumbai
Web: www.oshindia.com

DECEMBER 2019

Textile Machinery and Accessories Exhibition (ITMACH India)
5-8 December 2019, Ahmedabad, India
Web: <https://www.itmach.com>

JANUARY 2020

Heimtextil
7-10 January 2020, Frankfurt, Germany
Web: <http://www.heimtextil.messefrankfurt.com>

MARCH 2020

Geosynthetics Conference 2020: Case Studies
8-10 March 2020 at Charleston, SC USA
Web: www.ifai.com

INDEX™ 20 - world's leading nonwovens exhibition
31 March - 3 April 2020, Palexpo, Geneva
Web: <https://www.indexnonwovens.com>

APRIL 2020

Techtextil Russia
21-23 April 2020, Expocentre, Moscow, Russia
Web: <https://techtextil-russia.ru.messefrankfurt.com>

MAY 2020

Techtextil North America
12-14 May 2020, Atlanta, Georgia
Web: <https://techtextil-north-america.us.messefrankfurt.com>

Texprocess North America, Atlanta
12-14 May 2020 at Georgia World Congress Center, Atlanta, USA
Web: <https://texprocess-americas.us.messefrankfurt.com>

JIAM 2020 Osaka (Japan International Apparel Machinery & Textile Industry Trade Show)
20-23 May 2020, INTEX OSAKA, JAPAN.
Web: <https://texprocess-americas.us.messefrankfurt.com>