



CURRENT BUDGET FOCUSED ON GROWTH IN TECHNICAL TEXTILES-

- Production Linked Incentive (PLI) Scheme - Outlay of Rs. 10683 [Scheme Details Awaited]
- Scheme on Seven Mega Investment Textiles Parks (MITRA)



to
Technical Textile Industry



INDIAN TECHNICAL TEXTILE ASSOCIATION

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- MEDICAL TEXTILES
- PROTECTIVE TEXTILES
- NONWOVENS

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- Supply Chains-RM to Finished product
- Overview of Applications

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- Supervisors
- Production & Quality Professionals
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- Textile Graduate, PG & Diploma Students

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- Certificate will be honoured by Industry
- Acquire knowledge thru Theory & Practical
- Opportunity to interact with Industry Experts

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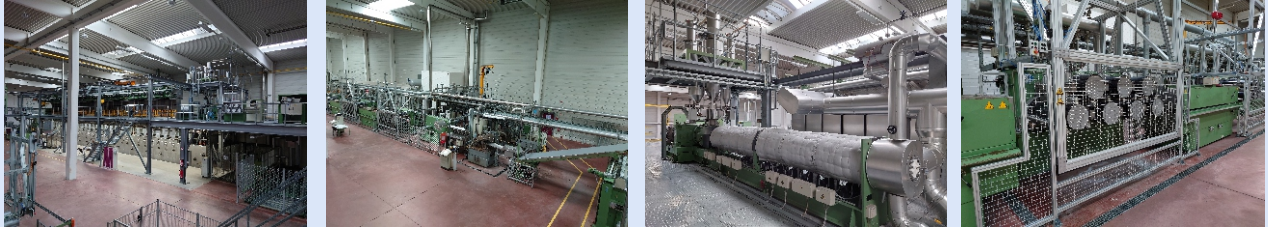
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ITTA DEFENCE HANDBOOK

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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INDIAN TECHNICAL TEXTILE ASSOCIATION,

314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059

Tel: +22 49635711, Mob: +91 9769464616; Email: info@ittaindia.org;

content

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FEATURES

5	EXPORT-IMPORT PERFORMANCE	<ul style="list-style-type: none">Performance in September 2020..... 5
7	ITTA ACTIVITIES	<ul style="list-style-type: none">Roundtable on Upcoming Schemes/ Initiatives of the Textiles & Apparel Sector7NCTC Presentation before Textile Commissioner on TUFs Issues.....7Webinar on “Will year 2021 be a game changes for the Indian textiles industry?” & "Indian Textile Journal's Business E-Conference" - Supported by ITTA8
10	DEVELOPMENT OF INDIAN STANDARDS	<ul style="list-style-type: none">Medtech Applications (TXD 36)102nd Meeting between BIS & Standardization Cells of Industry Associations10
11	NATIONAL NEWS	<ul style="list-style-type: none">Highlights of Union Budget 2021-22: It Offers many benefits to Technical Textile Industry.....11Textiles Committee, Ministry of Textiles signs MoU with Nissenken Quality Evaluation Centre, Japan.....11Setting up Textile Park in Bihar12PLI Scheme will also benefit Technical Textile Industry.....13India to make indigenous high altitude clothing for Indian soldiers.....13Agri-tech provides huge potential for technical textile industry14
15	INNOVATIONS & TECHNOLOGY	<ul style="list-style-type: none">CLOTHTECH - Smart Nightwear & Illuminating Shoelaces.....15MEDITECH - Reusable and Absorbent Underwear16MOBILTECH - Aircraft Upholstery Fabrics17PROTECH - Protective workwear & Thermal Insulated Gloves17SPORTECH - Warp knitted polyamide garments19RAW MATERIAL - Polymer with high rigidity and durability19MACHINERY - Mask making machine 20
23	UPCOMING EVENTS	
3	ADVERTISEMENT INDEX	<ul style="list-style-type: none">INVESTKONSULT SWEDEN AB..... 3

INDIAN TECHNICAL TEXTILE ASSOCIATION

314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059.
Mob: (0) +91 9769464616 Email : officeed@ittaindia.org Website : www.ittaindia.com

EXPORT-IMPORT PERFORMANCE OF TECHNICAL TEXTILE PRODUCTS OF NOVEMBER 2020

(ITTA Analysis on Ministry of Commerce and Industry Data)

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

A. EXPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Nov 2019	Nov 2020	% Growth	Apr'19- Nov'19	Apr'20- Nov'20	% Growth
1	Agrotech	60	65	9%	399	416	4%
2	Buildtech	50	65	29%	460	425	-8%
3	Clothtech	14	19	34%	134	128	-5%
4	Geotech	109	159	46%	657	1069	63%
5	Homotech	15	13	-8%	96	104	8%
6	Indutech	147	151	3%	1259	1089	-13%
7	Meditech	99	115	16%	712	762	7%
8	Mobiltech	117	106	-9%	934	804	-14%
9	Packtech	406	494	22%	3565	3335	-6%
10	Protech	34	40	19%	351	256	-27%
11	Sportech	16	19	21%	150	178	18%
12	Nonwoven	74	190	156%	660	968	47%
	GRAND TOTAL	1141	1436	26%	9377	9534	2%

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

ITTA Analysis on Monthly data (Nov'19 vs. Nov'20) of Top Three Growth Sectors --

- Nonwoven (+156%)** - Key Products: Wadding of MMF, Nonwovens of other filaments: weighing not more than 25 g/sqm & weighing more than 25 g/sqm but not more than 70 g/sqm, Jute felt and Nonwovens of man-made filaments: weighing not more than 25 g/sqm.
- Geotech (+46%)** - Key Products: Geogrids and Geo-composites.
- Clothtech (+34%)** - Key Products: Narrow woven fabrics- by weight 5% elastomeric yarn, and Knitted elastic fabric - less than 30 cm.

B. IMPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Nov 2019	Nov 2020	% Growth	Apr'19-Nov'19	Apr'20-Nov'20	% Growth
1	Agrotech	30	27	-10%	246	177	-28%
2	Buildtech	154	98	-37%	1273	626	-51%
3	Clothtech	20	23	19%	192	101	-47%
4	Geotech	113	109	-4%	1071	699	-35%
5	Homotech	43	40	-8%	396	250	-37%
6	Indutech	208	210	1%	1717	1349	-21%
7	Meditech	59	113	91%	419	410	-2%
8	Mobiltech	335	366	9%	3241	2163	-33%
9	Packtech	53	43	-20%	358	276	-23%
10	Protech	34	31	-8%	325	252	-23%
11	Sportech	10	11	14%	82	68	-17%
12	Nonwoven	170	121	-29%	1270	925	-27%
	GRAND TOTAL	1229	1192	-3%	10590	7296	-31%

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

ITTA Analysis on Monthly data (Nov'19 vs. Nov'20) of Top Three Growth Sectors --

- Meditech (+91%)** - Key Products: Medicated cotton, Adult diapers, Sanitary pads and Absorbent cotton wool.
- Clothtech (+19%)** - Key Products: Knitted or crocheted fabrics - width not exceeding 30 cm.
- Sportech (+14%)** - Key Products: Unbleached Parachute Fabrics, Mattress Supports - cushions & pillows and Sail Cloth.

Roundtable on Upcoming Schemes/ Initiatives of the Textiles and Apparel Sector

Roundtable was organized by the Ministry of Textiles (MOT) with support from Invest India to seek feedback on the key developments and upcoming schemes/ initiatives in the textiles and apparel sector including technical textiles on 28th January 2021 through video conferencing. The roundtable was attended by Dr. Sundararaman K. S., Chairman and Dr. Anup Rakshit, ED, ITTA. The following Central Govt. Schemes were discussed during the meeting. Respective Joint Secretaries, MOT, GOI made the presentations on the features of the Schemes and Drafts policies prepared by the Ministry to get feedback from different Associations and EPCs..

1. National Technical Textiles Mission (NTTM) - Outlay of Rs. 1480 crore with four major components.
2. Mega Integrated Textile Regions and Apparel Parks (MITRA) - 7 textile integrated parks across the country is under consideration.
3. Focus Product Incentive Scheme (FPIS) - Rs. 10683 cr. on Production Linked Incentive (PLI) scheme to boost Technical Textiles& MMF sectors.

Accordingly, ITTA has given the Feedback/ Suggestions during the meeting on these upcoming Schemes/ Initiatives on Technical Textiles.

NCTC Presentation before Textile Commissioner on TUFs Issues

Textile and Clothing Industry is facing huge challenges, especially with regard to pending TUF subsidies and its stringent formalities. In this regard, National Committee on Textiles and Clothing (NCTC) made a presentation taking inputs from committee members (ITTA is one of the active members of NCTC) and presented before Ms Roop Rashi, Textile Commissioner, Ministry of Textiles (MOT) on TUFs Issues through video conferencing held on 4th February 2021. As a Committee member, Dr. Anup Rakshit, ED, ITTA attended the meeting and gave the views in Technical Textile industry issues.

Dr. K. Selvaraju, Secretary General, SIMA on behalf of NCTC shared a presentation on the topic: Issues and Suggestions on TUFs. Key points are highlighted below -

- i. Pending subsidies of ATUFs cases (as on 30th Sept 2020)- 10718, committed liability- 9303, previous TUFs live cases- 9500, RRTUFs UID waitlist cases- 814 and left out technical textile cases- 62.

- ii. Special JIT protocol issues; ATUFs issues/ difficulties faced by the Industry, suggestions for GR related issues, bank issues, etc.
- iii. Long pending issues such as committed liabilities, RR-TUFs UID waitlist cases, clearance of TUFs subsidies for CCI dispute cases mills and left out technical textiles cases under R-TUFs. Around 2000 cases are pending for condonation wherein he suggested that considering the current crisis of COVID-19, one time opportunity could be provided for all the condonation cases with reasonable time line.
- iv. TUFs Fund Allocation & Subsidy Released till the FY 2020-21 and work done by Special Task Force to resolve the iTUFs issues.
- v. Help lines in all Regional TXC offices are required, as it is only available in HO, Mumbai.

Webinar on “Will year 2021 be a game changes for the Indian textiles industry?”

The Textile Association (India), Mumbai Unit organized a Webinar on 6th February 2021 and the theme was - “Will year 2021 be a game changer for the Indian textile industry?”.

The webinar was moderated by Mr. Rajiv Ranjan, Former ED & CEO, Hindoostan Mills Ltd. The eminent Panelists in the webinar were - Mr. A. A. Bambardekar, Works Director, Raymond Limited, Mr. R. K. Vij, Advisor, Indo Rama Synthetics Ltd., Mr. Navin Agrawal, Vice President, A.T.E. Enterprises, Mr. T. K. Washim Ahamed, Head-Business Development, SP Apparels (Retail Division), Mr. Minesh V. Adhvaryu, Director, Kushal Textile Institute and Dr. Anup Rakshit, ED, Indian Technical Textile Association (ITTA). Webinar received overwhelming response from the industry.

Dr. Anup Rakshit spoke on the Opportunities of Technical Textiles (TT) in India. He highlighted the current status of technical textiles in India i.e. Indian

market=19 billion USD in 2020 with average 12% growth rate, total textile business=USD 162 billion wherein technical textile contribute=11.7%, 2000+ TT manufacturers, Global market=USD 256 billion in 2019 with average 4% growth rate, Per Capita consumption=Global 10-12 kgs VS India 1.7 kgs and growth strategy by 2024=to achieve USD 40 billion. He emphasized on the achievements of technical textile such as 207 HSN Codes for TT products was notified in

January 2019, 92 TT applications identified for mandatory use across 9 different User Ministries (72 have been mandated), 364 Indian Standards are existing & 100+ are under development, new courses prepared under Skill Development. Other schemes, namely- National Technical Textiles Mission (NTTM) 2020 with outlay of Rs. 1480 cr. with four components and Rs. 10683 cr. on Production Linked Incentive (PLI) schemes will further boost TT & MMF sectors. In future, Medical & Hygiene products, Protective textiles, Geotech,



Webinar on "Indian Textile Journal's Business E-Conference" - “Can India take the lead in MMF and Tech Textile?”

The Indian Textile Journal (ITJ), supported by the Indian Technical Textile Association (ITTA), hosted a Webinar on "Indian Textile Journal's Business E-Conference" on 17th February 2021 with an aim to provide a platform to all stakeholders to exchange ideas, collaborate and draw the roadmap for the future.

The webinar comprised of Panel Discussion titled “Can India take the lead in MMF and Tech Textile?” to discuss challenges and opportunities for India in this space and draw the road map for growth. The panel discussion was moderated by Mr. Avinash Mayekar, CEO, Suvin Advisors and the eminent panelists were Mr. Anjani Prasad, MD,



Archroma India & Director, ITTA, Dr. Anup Rakshit, ED, ITTA, Mr. Avinash Mane, Commercial Head, South Asia, Lenzing, Dr. Manisha Mathur, Joint Director, SASMIRA and Mr. Ronak Rughani, Chairman, SRTEPC.

Number of important areas on MMF & technical textiles were covered by the Panelists- the present status of MMF & technical textiles in India, opportunities and challenges (internal and external) for growth, duty structures and availability of raw materials, cost-competitiveness with other countries, imports of end-products, etc. The recently announced government policies like PLI scheme & Budget 2021 others will benefit the sector and suggestions to increase India's share in the global MMF and Tech Textile market.

Highlights of the of the discussions and opinions are given below-

Dr Anup Rakshit highlighted that COVID-19 has severely affected not only Indian but also global market. At the same time, it has opened up new vistas for the technical textile industry in India. Industry has shown the tenacity to escalate the production of PPE to reach from almost zero to about 5 Lakh pieces per day. Now Industry is focusing on export market. MMF and Tech Textiles are interrelated. In MMF area, non-availability of High Performance Fibres/Yarns, higher duty structures are the main hurdles of growth in Tech

Textiles. He further said that PLI and Textile Park Schemes announced in the Budget-2012 are favorable to the growth of the tech textile Industry. Also lots of products are being imported to India, which are also produced by our Industry. We can substitute them quickly. Market growth in India can be much faster as market of these products already exists in India. Announcement of high growth on infrastructure-Road, Railways, Buildings, etc. will also boost tech textile sectors like Geotech, Buildtech, Protech, etc. Answering the question on 2

key suggestions to industry & government- he suggested that Product Innovation and increasing Global market share could be the focus of the tech textile industry. Availability of Raw materials for tech textiles and Setting-up highly sophisticated testing facilities, Standards & globally acceptable certification could be the key focus areas of Govt.

Mr. Anjani Prasad emphasized on the importance of sustainability concepts of MMF, Technical textile and Chemical industries. The issue with cotton waste is segregating it, which can be converted into viscose by stripping, dissolution and regeneration. We are trying to work out the best possible ways of processing MMF especially for blends. There is a huge demand for MMF as the price of cotton is going up. India is far behind in terms of quality provided by its counterparts like Korea and Taiwan.



1. BIS Sectional Committee Meetings-

Medtech Applications (TXD 36)

The 15th Meeting of Technical Textiles for Medtech Applications Sectional Committee, TXD 36 was held through audio-video conferencing on 18th January 2021. Dr. Anup Rakshit, ED, ITTA attended the meeting as the member of committee.

Following points were discussed & decisions taken -

1. Standards on Disposable Baby Diaper, Bio-Protective Coveralls, Eye Pad, Caps, Bedsheet and Pillow Cover were finalized for publication as

Indian Stds (IS 14923, IS 16334, IS 16136, IS 16137 & IS 16332).

2. Revised Preliminary drafts to be prepared on Underpad & Nonwoven Wipes shall be issued under wide circulation.
3. Fresh Preliminary drafts to be prepared on Eye Patch/ Dressing, Surgical Face Masks, Dental Floss, Elastic Bandage & Elastic Crepe Bandage.
4. Draft amendment to IS 17350 & IS 16288 are finalized for publication as Amendment to IS std.

2nd Meeting between BIS & Standardization Cells of Industry Associations

The 2nd meeting of Standardization Cells established in Industry Associations with BIS was held through audio-video conferencing on 29th January 2021. The Leaders of the ITTA Standardization Cells - Shri. Pankaj Kapoor, Shri. Anjani Prasad, Shri. Shrichand Santani, Shri. Sheelam Seth, Shri. Vikram Jain, Dr. Dhaval Patel and Dr. Anup Rakshit attended the meeting.

Shri. J. K. Gupta, BIS, shared a presentation on topic - Standardization of Technical Textiles and Standard National Action Plan (SNAP). He informed that 12 segment of technical textiles have been identified under SNAP for urgent standardization. About 501 Indian Standards on Technical Textiles including its test methods have been published and work on 20 subjects identified by Ministry of Textiles is underway and inputs on 35 subjects is awaited. Apart from above, work on 70 subjects on other conventional textiles based on the latest technological advancement is also underway. He highlighted the important stds published/ finalized or revised recently, important stds under various stages of development, new initiatives in stds development i.e. Digitization of Standardization Activity in BIS, proposals for new subjects for standardization and adoption/ implementation of Indian Stds.

During the meeting, Shri. Pankaj Kapoor & Dr. Dhaval Patel talked about the constraints in participation & in implementation of standards, standardization needs & gap areas and expectations from BIS.

Dr. Anup Rakshit, ED, ITTA shared his experience on forming the Standardization cells in ITTA and appreciated the efforts taken by BIS for organising the 2nd interactive session with Industry associations. He explained that ITTA identified the 10 areas of technical textiles and created a Standardization cells for each which are headed by the ITTA Directors and some of the key ITTA members having knowledge on the subject i.e. a group of about 7-8 key members are part of these cells. Created the WhatsApp and email group dedicated to the particular cells. He highlighted that large no. of standards on technical textiles had been developed in areas of geosynthetics, agrotextiles, protective textiles & medical textiles in last 2-3 years. Around 100+ or so are under development. However, progress is very slow in certain areas such as industrial textiles, coated and laminated textiles, composites & sports textiles. India is lacking on availability of highly sophisticated laboratories and testing instruments for technical textiles. The exporters have to spend a lot of foreign exchange for such testing and get the product certification by the authorities/ laboratories located abroad. He requested BIS to explore possibilities of giving such certificates which are accepted by the buyers abroad. Finally, he requested industry to provide the inputs on the non availability of stds for the benefit of the industry members who are facing the problems of bidding tenders, selling & purchasing product.

Highlights of Union Budget 2021-22: It Offers many benefits to Technical Textile Industry



Union Budget 2021-22 was presented by the Union Finance and Corporate Affairs Minister Smt. Nirmala Sitharaman on 1st February 2021 in the parliament. She said that the government has committed nearly Rs 1.97 lakh crore in the next 5 years starting FY 2021-22 to help bring scale and size in key sectors, create and nurture global champions and provide jobs to our youth.

The grant to the **textiles and clothing sector** including technical textiles is 3,614.64 crore, which is about 10% higher than the revised budget of 3,300 crore in 2020-21. The budget puts emphasis on Infrastructure Development and Research & Capacity Building as the grant for these sectors has been increased by about 43.7% and 77.5% respectively as compared to last year.

Smt. Sitharaman said that India's manufacturing companies need to become an integral part of global supply chains, possess core competence and cutting-edge technology to become a \$5 trillion economy and for this, our manufacturing sector has to grow in double digits on a sustained basis. To achieve the above, Production Linked Incentive (PLI) schemes to create manufacturing global champions for an Aatma Nirbhar Bharat have been announced for 13 sectors, she added.

In addition to PLI, Smt. Sitharaman proposed a scheme of Mega Investment Textiles Parks (MITRA) to enable the textile industry to become globally competitive, attract large investments and boost employment generation. This will create world class infrastructure with plug and play facilities to enable create global champions in exports. 7 new Textile Parks will be established over 3 years.

The Budget allocates 700 crore for Amended Technology Upgradation Scheme (ATUFs) against 545 crore in last Budget, which will help to clear the pending capital subsidy. It allocates 30 crore for Export Promotion Studies against 5 crore in last Budget, and 100 crore for Integrated Scheme for Skill Development. Mentioning about the need to rationalize duties on raw material inputs to man-made textile, Smt. Sitharaman announced uniform deduction of the BCD rates on caprolactam, nylon chips and nylon fiber and yarn to 5% and the move will help the textile industry, MSMEs and exports too.

[Source- <https://pib.gov.in/PressReleasePage.aspx?PRID=1693886>

Or <https://www.fibre2fashion.com/news/textile-news/textiles-industry-broadly-welcomes-union-budget-2021-22-272145-newsdetails.htm> Or <https://pib.gov.in/PressReleasePage.aspx?PRID=1694058>]

Textiles Committee, Ministry of Textiles signs MoU with Nissenken Quality Evaluation Centre, Japan

The Textiles Committee, Ministry of Textiles has signed a Memorandum of Understanding (MoU) with Nissenken Quality Evaluation Centre, Japan to boost export of Textile and Apparel to Japanese market. The MoU signing ceremony was held

through video conferencing on 27th January 2021 which was presided over by Hon'ble Minister of Textiles, Smt. Smriti Irani and Hon'ble State Minister of Economy, Trade and Industry of Japan Shri. Yasumasa Nagasaka. The main objective of the MoU



is to provide required support to textile's trade and industry for ensuring quality as per the requirement of Japanese buyers.

The main objective of the MoU is to provide required support to textile's trade and industry for ensuring quality as per the requirement of Japanese buyers through Testing, Inspection & Conformity Assessment, Training & Capacity Building, Research & Development (R&D) and Consultancy. It is expected that the MoU will strengthen the bilateral trade by enhancing India's export of Textile and Apparels (T&A) to Japan, which is the third largest export destination of the world.

Speaking on the occasion of the signing ceremony, Smt. Smriti Zubin Irani fondly recalled the

friendship and long history rooted in spiritual affinity and strong cultural and civilizational ties between India and Japan. She expressed confidence that the MoU will help in creating awareness on the various quality parameters being sought by the importers based in Japan and extending hand-holding support to the Indian exporters to adopt and upgrade their technology so as to enhance the quality of products and satisfy the stipulations as required by the Japanese importers. She also spoke about the synergy in the working of the two organisations and expressed confidence that it will *inter alia* boost the Technical Textiles sector as well and improve sourcing from India. She also urged the T & A industry to make full use of the opportunity in furthering Indian Interests.

Speaking on the occasion, the Japanese State Minister of Economy, Trade and Industry, Shri. Yasumasa Nagasaka highlighted that India is a huge market for Japanese industry and expressed confidence that going forward, there will be substantial development in the India- Japan trade relationship.

[Source- <https://pib.gov.in/PressReleasePage.aspx?PRID=1692730>]

Setting up Textile Park in Bihar

The government may introduce a category called 'Greenfield' in the recently announced production-linked incentive (PLI) scheme for textiles to encourage companies to venture into the sector. As per the discussions, to be eligible for the scheme, the new entrants would be required to invest at least 500 crore for which the initial benefit is likely to be 11%, which is the highest of all categories being discussed.

Incentive rate for existing companies in the sector could be 9% of their incremental production in the first year for companies with turnover between 100-500 crore, which would be tapered gradually to 5%. Companies with turnover of above 500 crore would be eligible for a 7% incentive rate, which would be reduced to 3% eventually. The scheme aims to create 50-60 world class global champion companies in these segments.

"We are looking at high potential products and those that are traded the most globally," an official said. "It is only at a proposal stage, but we want new products that can be produced and exported from India to get the incentive." Airbags, sutures, sanitary napkins and bandages could be among 10 products in technical textiles to get a manufacturing boost under the scheme along with another 40 items of man-made fibre (MMF) such as track suits, coats and babies' garments.

[Source-<https://economictimes.indiatimes.com/industry/cons-products/garments-/-textiles/cos-entering-textile-space-may-get-highest-benefit-under-pli/articleshow/80617571.cms?from=mdr>]



PLI Scheme will benefit Technical Textile Industry

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[Source-<https://economictimes.indiatimes.com/industry/cons-products/garments/-/textiles/cos-entering-textile-space-may-get-highest-benefit-under-pli/articleshow/80617571.cms?from=mdr>]

India to make indigenous high altitude clothing for Indian soldiers



India is indigenizing production of special high altitude clothing required for Indian soldiers standing guard in mountainous terrain. The Defence Ministry said in a written statement to parliament on 8th February 2021. The percentage of imported items has reduced from 43% to 29% in the last five years, Minister of State for Defence Shri. Shripad Naik said in response to a question.

"Tenders aligned with 'Make in India' initiative for identifying indigenous sources of supply are regularly being published. Wide publicity through Ministry of Textiles and various textile associations is also given for participation by prospective Indian manufacturers," he said.

“Further, with a view to encourage Indian industry to manufacture in India, industry outreach programmes are undertaken and long-term contracts have been offered as incentives for assured business,” the he added. Last year, India procured extreme cold high altitude clothing from vendors in the US and Western Europe after the deployment of large numbers of troops along India's borders with China. The deployment came after India in May detected large number Chinese troops across the Line of Actual Control border and some intrusions into Indian Territory in Ladakh.

In response to questions from another MP, Shri Naik said on the “basis of the threat perception and technology available, the armed forces are procuring terrain and weather specific equipment to thwart the likely threat from our northern adversary.”“In the current standoff, emergency procurements for certain arms and equipment have been undertaken by the armed forces to beef up their combat potential,” the he said.

[Source-<http://www.indiandefensenews.in/2021/02/india-to-make-indigenous-high-altitude.html>]



Union Textiles Minister Smt. Smriti Irani said the Agri-tech sector provides the technical textiles industry a huge opportunity to partner with the government as well as the agrarian community and leverage their capabilities. Agri tech is one large area where the industry can partner not only with the government, but also citizens in the agrarian part of our economy," the Smt. Irani said.

She was addressing an inaugural session at the virtual conference on 'Technical Textile - The Future of Indian Textile Industry' organised by IMC Chamber of Commerce and Industry held on 27th January 2021.

Smt. Irani also said agri-tech will give equal opportunities to those who are from agricultural families to leverage their capabilities. Besides agri tech, there is a huge growth potential in med-tech, geo-tech, sports-tech, and infra-tech, among others, she said. Further, she said it is important to reach out to small and medium enterprises (SMEs), and standards have been made known to them so that they can also be part of the growth.

Smt. Irani said there were only two manufacturers of N95 masks in March 2020, which has now increased to 200. "By transforming a COVID-19 crisis to an opportunity, India has proven its ability to innovate and rise to the challenge with limited resources and time," she added.

The government has embarked on a journey for the National Technical Textiles Mission and is committed to ensuring that skill development in technical textile commences with the introduction of six new courses, she said. "Another 20 new courses for enhancement on upgradation of skills are currently under preparation," she added.

[Source- <https://economictimes.indiatimes.com/industry/cons-products/garments-/-textiles/agri-tech-provides-huge-potential-for-technical-textile-industry-irani/articleshow/80483366.cms?from=mdr>]

CLOTHTECH - Smart Nightwear & Illuminating Shoelaces



Underwear and loungewear specialist Mey Handels GmbH, Germany has launched its product series "Zzzleepwear," developed to improve the quality of sleep for men and women. Setting new standards in the sleepwear category, functionality and technical innovation are the focus of the product styles that also offer stylish looks and wearer comfort.

Fabrics of the "Zzzleepwear" series are equipped with energear™ technology from textile manufacturers Schoeller Textil AG, Switzerland. They reflect the body's own energy, which is emitted in the form of far-infrared rays. The textile finish is based on a titanium-mineral matrix, which reflects far-infrared rays back to the body. This effect can have a positive impact on the body and its energy balance.

For the new "Zzzleepwear" series, the energear™ coating is applied to the inside of the fabric in a honeycomb-like form. It thus represents the core of the series. In addition, the fabric with melange

structure is made of natural cotton and thermoregulating fibers that provide high breathability. The large proportion of natural cotton fibers increases the wearing comfort of this special nightwear. The "Zzzleepwear" series offers different color variations, as well as outstanding design features like flat seams and an interior print in the neck area.

A Spotify code is printed on every item in the series. By scanning this code, customers can listen to a sleep podcast created especially for the selected pair of pyjamas. In the eleven-part good night story, the products tell their own manufacturing story, from the cotton field to the fabric production to the store - so boring, it will have customers nodding off in no time.

[Source- https://www.mey.com/de/zzzleepwear_or_https://www.techtextrends.com/news/technology-machinery-fabrics-accessories/MeySchoeller-New-sleepwear-series--22897]

Shoelaces increase safety for joggers and cyclists

Textiles experts at Nottingham Trent University have designed shoelaces that light up and flash to improve safety at night for joggers and cyclists. Created by researchers in the Advanced Textiles Research Group (ATRG) in collaboration with leading science and engineering company QinetiQ, the laces are also intended as a fashion accessory.

The braided shoelaces contain light emitting diodes (LEDs) 'the size of a flea' and are switched on or off by the wearer tapping their shoes together. As the LEDs are encapsulated in a waterproof resin, the laces are fully washable and wearable so they can be worn and used like any other pair of laces. These laces could become a very simple way for



runners or cyclists to improve their visibility on dark winter nights.

The laces are powered by a small, integrated battery in the shoe which contains the electronics linked to the on/off sensor. The electronics in the shoe are also embedded in a silicone pod to protect them from the elements and to seamlessly incorporate

them into the shoe's design. Until the LEDs are switched on, they look and behave just like normal shoelaces, as the electronics cannot be seen by the naked eye and can barely be felt.

This technology shows how smart textiles can improve safety for athletes, but also how it can be used as a fashion accessory. The current laces have real potential to make a great difference to the healthcare, athletic, leisure, defence and security industries. The potential future integration of other technologies onto the lace itself really opens up a world of possibilities for large impact.

[Source-<https://aboutmanchester.co.uk/shoelaces-that-light-up-to-increase-safety-for-joggers-and-cyclists/#:~:text=Textiles%20experts%20have%20designed%20shoelaces,t%20become%20a%20fashion%20accessory.>]

MEDITECH - Reusable and Absorbent Underwear

Absorbent underwear for menstruation and incontinence

Sweden based Hygiene and health company Essity launched new ranges of washable absorbent underwear within its feminine care and incontinence products categories. The underwear offers invisible protection for up to eight hours, providing users with a more sustainable option than disposable protection.

In Essity's incontinence products category, TENA Silhouette Washable Absorbent Underwear is being launched for women with light bladder weakness and with a focus on discretion. In Essity's feminine care category, a line of period underwear is being launched called intimawear under the brands Libresse™, Bodyform™ and Nana™. The two products have different gusset lengths and come in different styles and with different types of lace.

"Essity has always been at the forefront of sustainable innovation and been fast in responding to the changing needs of consumers. Therefore, we are very excited about our most recent innovation; the launch of absorbent and washable underwear.



These products take wearing comfort to the next level and also demonstrate our commitment to sustainability by providing our consumers with a sustainable, re-usable solution," says Mr. Tuomas Yrjola, President Global Brand, Innovation and Sustainability at Essity.

[Source-<https://www.prnewswire.com/news-releases/essity-launches-absorbent-underwear-for-menstruation-and-incontinence-301211540.html>]

Soft furnishings for aircrafts successfully tested against SARSCoV-2



UK based MGR Foamtex Ltd, manufacturer of advanced passenger upholstery systems for premium cabin seating, has announced that its advanced antimicrobial MGRSafeWall product protection system has been successfully tested against SARS-CoV-2, the virus that causes COVID-19, using Addmaster's Biomaster antimicrobial technology. Addmaster Holdings has been a wholly owned subsidiary of Sweden-based Polygiene AB.

Polygiene CEO Ms. Ulrika Bjork said: "MGR Foamtex is one of several new partners supplying antimicrobial materials for aircraft seats, upholstery and interiors to make the cabin as safe as possible. This is an area where Polygiene's and Addmaster's antimicrobial solutions will add value and work as a second line of defence in addition to regular cleaning, and we anticipate an increased demand for this kind of functionality going forward."

Laboratory testing to ISO 18184 protocols using MGRSafeWall and real aircraft cabin products has demonstrated efficacy of 96.8% against SARS-CoV-2. In addition to the viral testing, MGRSafeWall has also shown excellent behaviour in flammability,

abrasion and resistance to cleaning agent tests. MGR Foamtex MD Jon Rose added: "This is truly exciting news for all of us in the industry. It is a real game-changer as we believe that this is the first time that real aircraft cabin materials have been tested with actual SARS-CoV-2. MGRSafeWall really is a great product for the current environment and will also keep giving value in the future."

MGR Foamtex first partnered with Addmaster for the use of Biomaster antimicrobial technology in its new MGRSafeWall product range. Surfaces treated with Biomaster technology are proven to reduce the microbial load and the opportunities for cross contamination and provide an important second line of defence in addition to regular cleaning protocols. The active antimicrobial agent is built into the product during the manufacturing process, so the product protection is effective 24/7 for the useful lifetime of the item.

[Source-<https://www.medicalplasticsnews.com/news/soft-furnishings-for-aircrafts-successfully-tested-against-s/>]

Multi-Hazard Protective workwear

Ballyclare, UK has introduced new multi-hazard protective workwear for wearers in a variety of industrial sectors. The new Ballyclare ProTec range includes a comprehensive selection of arc-protection, flame-retardant garments which provide protection against various hazards such as electrical arc flashes, static discharges, welding sparks, and molten metal.

The garments are designed to combine maximum comfort with outstanding protection and durability for people working in dangerous, flammable or other high-risk environments. This makes them ideally suited to many different industries and working environments such as rail, on-site, utilities and offshore.

Included in the ProTec range are waterproof jackets,

trousers and coveralls, made from the technically advanced Gore-Tex Pyrad Fabric. These garments provide the same ProTec protection with the added benefit of reliable and breathable waterproofing, plus some of the highest arc flash ratings available in modern PPE.

When exposed to heat and flame, the laminated construction of the Gore-Tex Pyrad fabric forms a stable and non-flammable char layer which protects the wearer. Its robust nature and excellent insulation properties retain the physical integrity of the laminate and prevent the formation of any holes. The ProTec Gore-Tex Pyrad garments offer a far more lightweight and comfortable solution than the bulky, traditional waterproof, arc flash protective clothing.

The lightweight fabric ensures the wearer can maintain a comfortable body temperature and also provides the freedom of movement they need. This encourages people to wear the garments at all times, and allows them to work for longer hours in difficult



conditions. It also extends the range of working environments and applications where the ProTec range can provide the ultimate workwear solution. Designed to be equally comfortable for both male and female wearers, the ProTec Gore-Tex Pyrad garments comply with a wide range of EN standards.

[Source-<https://www.technicaltextile.net/news/ballyclare-introduces-multi-hazard-protective-workwear-272070.html>]

Thermal Insulated Winter Gloves



Canada based HEAT-MX Worldwide launches a new product category, GLV MX based on the cutting-edge technologies of HEAT-MX™ thermal insulation, engineered to best suit for winter Glove applications.

“We are pleased to announce the launch of GLV MX for Glove applications in our already-diverse product portfolio. The products in the GLV MX category will offer the breakthrough technologies recognized by the prestigious ISPO Top of Innovation Award and incorporate performance



features required particularly for Glove applications, including improved dexterity and

warmth up on compression from hand gripping, etc.

In addition, the products come with significant environmental benefits based on the Clean Recycling Initiative™ as well as other proprietary technology platforms of HEAT-MX™. We believe GLV MX will help the Glove industry improve all aspects of thermal insulation performance of winter gloves while significantly benefit the environment”, said Sae Chang, President of HEAT-MX Worldwide and inventor of the technology.

GLV MX is offered in the nominal weight range of 40gsm ~ 200gsm, but other custom weights are also available.

[Source-<https://textilevaluechain.in/2021/01/14/heat-mx-product-launch-of-glv-mx-for-winter-glove-applications/>]

SPORTECH - Warp knitted polyamide garments



Warp-knitted polyamide garments protect from viruses and bacteria

Italy based CIFRA has designed and produced a new generation of garments with antiviral properties made with the exclusive Q-SKIN® yarn powered by AMNI VIRUS-BAC OFF, which guarantees permanent anti-viral activity and therefore protection from the risks of contamination.

The innovative yarn was developed in the research laboratories of the Rhodia-Solvay Group and is distributed by Fulgar, Italy, a leader in the sector of high-tech and eco-sustainable yarns. The polyamide yarn is effective against the proliferation of bacteria and the spreading of viruses, thanks to the antiviral and antibacterial agent permanently incorporated into its polymer matrix.

According to several qualified studies, viruses can survive up to at least two days on textile surfaces. The electron affinity, together with proteins present in the external structure of viruses, causes this agent to prevent tissues from becoming a host surface for viruses and bacteria, thus helping to reduce the risk of contamination. The yarn's antiviral properties have been tested by an independent laboratory following international textile protocols found in the ISO 18184 standard (standard for determining the antiviral activity of textile products).

The technical characteristic of this new yarn ensures that antiviral and antibacterial agents do not migrate onto the skin or into the environment. Unlike garments treated with dyeing finishes that have limited functionality and lose theirs with washing, the antiviral and antibacterial properties of Q-SKIN® polyamide powered by AMNI VIRUS-BAC OFF are permanent, which is an added benefit for garments in that they remain unchanged over time, confirming the sustainability of the production process.

This special, soft, and easy to wash polyamide fibre also guarantees freshness and comfort, contributing to the thermal wellbeing of the wearer. WKS technology guarantees the practicality of seamless and warp-knit garments, truly unique in the sector, which is designed to offer differentiated functionality thanks to body-mapping. Garments such as base layers, leggings, tops, sweaters, gloves, and helmet liners represent an absolute novelty on the international scene in terms of style, and for product and production processes.

[Source-<https://underlinesmagazine.com/2021/01/14/cifra-first-collection-antibacterial-antiviral-athleisure/> Or <https://www.innovationintextiles.com/cifra-presents-antibacterial-and-antiviral-athleisure-collection/>]

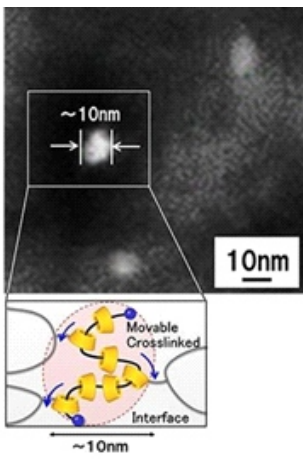
RAW MATERIAL - Polymer with high rigidity and durability

New Polymer Offers Outstanding Features

Toray Industries based in Japan has developed a new polymer that retains the outstanding thermal resistance, rigidity, and strength of polyamide 6 (PA6) while offering a bending fatigue limit that is 15-fold that of conventional polymers. Prospective application areas for the new polymer with

exceptional durability include automobiles, appliances, and sporting goods. Toray plans to initiate full-fledged sample work in fiscal year 2021 while cultivating applications in diverse industrial materials fields.

PA6 is an engineering plastic whose diverse uses



include automobile engine compartments and appliance housings. PA6 resin incorporates a flexible elastomer to resist fatigue and optimise the lifespan. The tradeoff, however, is that this lowers PA6's thermal resistance, rigidity, and strength. Toray focused on polyrotaxane, which has

a sliding molecular bond, as a polymer whose structure moves in response to external forces. The company endeavoured to balance the inherent

attributes of PA6 and fatigue resistance by finely dispersing polyrotaxane in the resin.

Toray drew on proprietary Nanoalloy microstructure control technology to maximise the effectiveness of polyrotaxane by dispersing it in the 10 nanometre crystals of PA6. The resulting flexible stress-dispersion mechanism led to creation of the new polymer. Tests at the SPring-8 synchrotron radiation facility in Japan confirmed that the new polymer suppresses changes in the crystal structure of PA6 when subjected to external forces.

[Source-<https://www.lab-worldwide.com/new-polymer-offers-outstanding-features-a-993993/>]

MACHINERY - Mask making machine

Machines for making Facemasks



Lemu Group, Spain, a global converting equipment manufacturer, has engineered a machine to help produce facemasks in the continued fight against the COVID-19 pandemic. This product development provides an opportunity for converters to expand into new areas of potential growth. Lemu Group has used its technical know-how to launch this mask manufacturing line.

“Given the shortage of masks in Europe, we decided to do what it does best - build robust machines with stable production,” explains Mr. Andre Beaudoin, leader of Lemu Group USA's sales and marketing team. “We wanted to help curb this disease, which spreads so fast. In record time, we were able to develop a surgical production line from scratch.”

Lemu Group's latest launch, a 100%-made European machine, delivers enhanced productivity and full automation while adhering to all of the European safety standards. Plus, this machine can be operated primarily from a PLC, with the ability to

provide quick and seamless job changes. It is equipped with four unwinders, which enable the production of masks with three and four layers. Each reel also has its own independent tension control. It can work with different materials, and the adjustments are always simple. With just a few manual adjustments, the machine works properly and efficiently. This is critical because the materials used in mask production frequently change in terms of quality.

The machine features two welding groups, as well. The first welding group joins the different mask layers, while the second welds the mask's earloops. The machine is also equipped with a system to place the ear loops inside the mask, and the mask grouping system in each welding line is independent.

[Source-<https://www.labelsandlabeling.com/news/new-products/lemu-group-engineers-mask-making-machine/>]

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NEW MEMBERS

WELCOME TO NEW MEMBERS

ANIL FASHIONS PVT. LTD., GUJARAT

Anil Fashions established in 1993 has been a pioneer in manufacturing greige & finished fabrics and bedsheets - 12.87 cr. (FY 2019-20) for export houses in India. In 2020, they have entered the field of manufacturing surgical products such as 3 ply facemasks, N95 masks, Surgical gowns, PPE kits, Safety goggles, etc - 0.65 cr. (FY 2019-20). They have machineries like Airjet looms, Stitching machines, etc.

GEOTECH INDUSTRIES PVT. LTD., MAHARASHTRA

Geotech Industries is a manufacturer of extruded biaxial and uniaxial geogrids with an equipped state-of-the-art plant and machinery. Currently, they have started the production of extruded geogrids.

KYRA GLOBAL, ANDHRA PRADESH

Kyra Global is a merchant exporter of organic spices, oleoresins, etc. They have currently entered into exports of technical textiles of home textiles, industrial textiles and packaging textiles.

SHINGORA TEXTILES LTD., PUNJAB

Shingora Textiles is the manufacturers of innovative fabrics for the high-end segments of the EU, US and Japan markets. The production facility is vertically integrated, modern and state-of-the-art equipped with the latest technology from Europe. Machineries such as Dornier weaving looms, Warping m/c, Sizing m/c, Yarn & Dyeing m/c, Coating m/c, Flatbed printing m/c, etc. The products range includes FR fabrics, Water proof fabrics and Tactical fabrics with production capacity of 300 MT/year (FY 2019-20).

ITTA PUBLICATIONS

Name of the Publication	Price*	Type of Publication
ITTA Defence Handbook - Indian Technical Textile Products for Defence - A Global Reach	₹ 750	Handbook
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 Geosynthetics case studies of ITTA Members (2013)	₹ 750	Handbook

*Courier charges extra

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INDIAN TECHNICAL TEXTILE ASSOCIATION,

314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059.

Mob: (0) +91 9769464616 Email : officeed@ittaindia.org

UPCOMING EVENTS

MARCH 2021

TECHNOTEX 2021 (9th International Exhibition & Conference on Technical Textiles)

[EVENT SUPPORTED BY ITTA]

17-19 March 2021

Web: <https://www.technotexindia.in/>

COMPOSITE-EXPO 2021

30 March-1 April 2021 in Moscow, Russia

Web: <http://www.composite-expo.com>

APRIL 2021

OUTLOOK™ 2021

21-23 April 2021 in Lisbon

Web: <https://www.edana.org/events/outlook/outlook-europe-2021>

MAY 2021

TECHTEXTIL 2021

4-7 May 2021 in Frankfurt, France

Web: <https://techtexsil.messefrankfurt.com/frankfurt/en.html>

JUNE 2021

OSH INDIA (South)

03-04 June 2021, Bengaluru, India

Web: <https://www.oshindia.com/south-india/>

7th NONWOVEN TECH ASIA 2021 (International Exhibition & Conference)

04-06 June 2021, Delhi, India

Web: <https://www.nonwoventechasia.com/>

INTERNATIONAL NONWOVENS SYMPOSIUM

09-10 June 2021, Lyon, France

Web: <https://www.edana.org/events/nonwovens-symposium/international-nonwovens-symposium>

ITMA ASIA + CITME 2020

12-16 June 2021 in Shanghai, China

Web: <http://www.itmaasia.com>

35TH INTERNATIONAL TEXTILE MACHINERY (ITM) EXHIBITION

22-26 June 2021 in Istanbul

Web: <https://www.itmexhibition.com/itm2021>

JULY 2021

WORLD OF WIPES (WOW)

12-15 July 2021, Georgia, USA

Web: <https://www.worldofwipes.org>

AUGUST 2021

TECHTEXTIL NORTH AMERICA

23-25 August 2021, North Carolina, USA

Web: <https://techtexsil-north-america.us.messefrankfurt.com>

SEPTEMBER 2021

TECHTEXTIL INDIA

01-03 September 2021, Mumbai, India

Web: <https://techtexsil-india.in.messefrankfurt.com/>

INDEX

7-10 September 2021, Geneva, Switzerland

Web: <http://www.edana.org>

OCTOBER 2021

A+A

26-29 October 2021, Düsseldorf, Germany

Web: <https://www.aplusa-online.com>

NOVEMBER 2021

IFAI EXPO

1-4 November 2021, Tennessee, USA

Web: <http://ifaexpo.com>

HYGIENIX

15-18 November 2021, Arizona, USA

Web: <https://www.hygienix.org>

DECEMBER 2021

INDIA ITME 2021

(11th India International Textile Machinery Exhibitions)

8-13 December 2021, Greater Noida

Web: <https://itme2021.india-itme.com>