



INDIAN TECHNICAL TEXTILE ASSOCIATION

E-BULLETIN

Issue No. 70

November-December, 2020



**10TH ANNUAL GENERAL
MEETING OF ITTA
FY 2019-20 HELD ON
16TH DECEMBER 2020**



**Cabinet approves Rs.10683/- Cr
on PLI Scheme to Boost
Technical Textile & MMF Sectors**



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PLEASE NOTE OUR NEW OFFICE ADDRESS

INDIAN TECHNICAL TEXTILE ASSOCIATION

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10th Annual General Meeting of Indian Technical Textile Association- FY 2019-2020

The 10th Annual General Meeting of ITTA was held on 16th December 2020 through Video Conferencing under the Chairmanship of Dr. Sundararaman K. S., Chairman, ITTA. Key Note address was given by the Chief Guest Shri Punit Lalbhai, Executive Director, Arvind Ltd. In the Knowledge Session, two eminent speakers - Shri. Ian Thomson, Technical Director, Rockman Advanced Composites Pvt. Ltd., UK and Shri. Barry Goodwin, Managing Director, Amba Projex Ltd., UK shared their rich experience in the field of Composites. Business session was conducted by Shri Amit Agarwal, Vice Chairman, ITTA.

Dr. Anup Rakshit, Executive Director, ITTA, welcomed the ITTA Members, Eminent Speakers, Special Invitee and representatives of Press present in the meeting. In his brief welcome address, he pointed out that this year ITTA has successfully completed **glorious 10 years**. This year we have organized AGM in a little different way. There will be a Key note address by an Industry Leader followed by the Knowledge Session. Two eminent speakers from UK will be speaking in knowledge session on very interesting subjects - Latest technology on Fibres and Fabrics used in Composites and Coating and Lamination Technology Employed in Prepreg Composites. Thanking the Ministry of Textile, Government of India, he highlighted that this year two major schemes on Technical Textiles have been announced by the Ministry. One is the National Technical Textile Mission (NTTM) with a outlay of Rs. 1480 crore for 4 years wherein Four components are included and the other is Production Linked Incentive (PLI) Scheme on Technical Textiles & Man-made fibres segments with an outlay of 10683 crore. Both the schemes put together will give boost to the Technical Textile Industry in coming years.

Dr. Sundararaman K S, Chairman, ITTA, in his presidential address welcomed the members, distinguished speakers and Directors of ITTA and also expressed his happiness on the large number of members present in the AGM. He highlighted that ITTA has been in forefront of responding the COVID-19 crisis at the national level. He explained in detail that in the process of supporting the domestic PPE manufacturing sector within the country, ITTA had also on multiple forums represented the cause of exporters at the level of facemask, PPE, laminated fabric, etc. and relentlessly working with the Government to come out with the balance solution of catering to both the Indian needs as well as taking care of the exports. ITTA further requested the Government to lift the ban on the Melt blown fabrics and we have been indicated that it will happen soon. He said that during the COVID-19 pandemic we have created a completely new segment of 7000 crores because of the fabric manufacturers in India. On multiple fronts, overall technical textile industry will be growing rapidly in the coming years. He talked about the ITTA's engagement with the Government wherein he informed that today NTTM comprises of multiple of steering committees to layout and execute the vision of NTTM. ITTA is the part of these committees at the apex level. He also mentioned that ITTA has also been interested in creating the Export Promotion Council (EPC) on Technical Textiles and we have made the applications/representation for the same to the Government. He pointed out that there has been an unprecedented amount of focus in the government on growing technical textile which started with the 207 list of HSN codes, 92 mandatory items, NTTM and recently PLI scheme was introduced. In addition to the PLI scheme, the Govt. of India is looking at creating the international linkages to both grow the

profile of Indian technical textiles as well as to bring international testing agencies into the country. ITTA mooted an idea which is been taken up by the Govt. and today the Govt. of India is working with Govt. of Telangana to create a world class testing labs in the state of Telangana. ITTA is also working closely with the BIS for the formulation of Indian standards on technical textiles.

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 & Audited Balance Sheet for the FY 2019-20; agreed to appoint M/s. Maitra & Chopra, Chartered Accountants, as Auditors for FY 2020-21; and also agreed to amend the proposed Articles of Association (AOA) of ITTA.

2. Announcement of new Board of Directors for FY 2020-21 -

The list of sixteen Directors in newly constituted ITTA board is given below –

SR. NO.	NAME	COMPANY NAME	DESIGNATION
1	DR. SUNDARARAMAN K S	SHIVA TEXYARN LTD.	CHAIRMAN
2	AMIT AGARWAL	CTM TECHNICAL TEXTILES PVT. LTD.	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	DIRECTOR
7	SHEELAM SHETH	SRF LIMITED	DIRECTOR
8	MAKARAND APPALWAR	IFBCA	DIRECTOR
9	SANJAY VASUDEO RAUT	GARWARE -WALL ROPES LTD.	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 TEXTILE PVT. LTD.	DIRECTOR
14	ANJANI PRASAD	ARCHROMA INDIA PVT LTD	DIRECTOR
15	SHRAMIK MASTURLAL	MASTURLAL PVT. LTD.	DIRECTOR
16	AVINASH MISAR	TEXPORT SYNDICATE INDIA LTD.	DIRECTOR

Key Note Address -

Speaking on the event, the Chief Guest Shri Punit Lalbhai, Executive Director, Arvind Ltd. shared his experience in Arvind and working in the technical



textile industry. He spoke about the global market, where India stands in it and to frame what opportunities technical textile brings to the country. Globally, the technical textile industry is a large market and it's growing at a steady rate for 4-5%. It is focused on a diverse set of applications; a lot of them are unlike conventional textiles core to the end users and it's also have a very high potential of innovation & high end value. He highlighted that there are many impediments such as strict quality and qualification control; buyers not educated about the values in many cases, etc. to growth of technical textile however we have a lot of opportunities in this field. He said that there is robust global market waiting for this industry and both domestic consumption and export will be growing rapidly. He talked about Arvind's journey with turnover of 1000 crores in technical textiles divided into Human Protection, Industrial products primarily Filtration and Composites. He mentioned the major points on how to start a business i.e. time arising, resource availability, quality, lot of focus and push boundaries.

Knowledge Session -

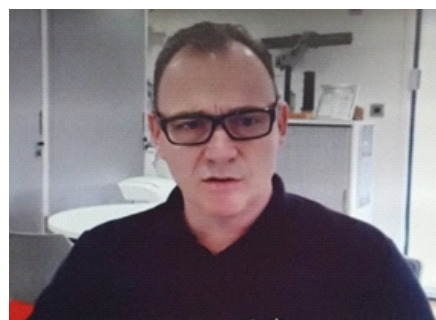
Abstract of the two presentations in Knowledge Session are given below-

Shri. Ian Thomson, Technical Director, Rockman Advanced Composites Pvt. Ltd. spoke about the *"Fibres and Fabrics What, Why, Where and When thru my 40 years in Composites"*. He talked about the



variety of fibres and fabrics used in manufacturing, testing, tooling and structure design of the racing cars i.e. F1 cars. He explained the importance of different fibres such as Dyneema, Kevlar and Carbon used for making composites. He highlighted the Density of Carbon Fibre 1.7 g/cm³, Kevlar 1.45 g/cm³ and Dyneema Fibre 0.98 g/cm³. He also talked about Carbon/ Dyneema Hybrid for making Ferrari nose box to achieve a light, durable and energy absorption body and passed successfully the Collapsible Steering Column Test & Drop Test for controlled collapse and energy absorption. Some examples of composites are Formula 1 Chassis - Carbon fibre - strong, stiff, low density & highly efficient, Sauber C12 & Super Aguri - Carbon + Kevlar - super lightweight racing car panels and North American Racing Series - Carbon/ Dyneema - light but reasonably durable, strong, flexible & Damage Tolerant. Other examples are Bicycle Frame Tubes, Rally Car, EV Battery Enclosures, Exhaust Trims & other automotive components, Wind Turbine and Aeroplane.

"Coating and Lamination Technology Employed in Prepreg Composites" was presented by Shri. Barry Goodwin, Managing Director, Amba Projex Ltd. He explained the definition of composite material and composites prepregs which can be Pre-impregnated by thermosetting and thermoplastic method. Prepreg can be made from Carbon, E glass, quartz glass, Aramid, Ceramic and Kenaf. Even natural



fibres like- Flax, Hemp, etc can also be used for specific applications. He explained in detail the different Prepreg manufacturing techniques such as Dry multi-axial technique- Infusion, Machines - Typical PUR Laminator, Laminating dry systems, Pre-coated lay-up (woven), Precision blade coater, Roller coating m/c, Pre-coated prepreg lay-up m/c, UD Tape prepreg process, UDT Prepreg m/c, Rotating carbon creels for UD tapes, Woven prepreg process & Fabric prepreg m/c. Major applications where composites are used - marine & space

applications, military applications, wind turbines, performance vehicles, musical instruments, art, helmets, etc. Global demand for carbon fibre composites - US \$15.75 billion in 2015 & to achieve US \$23.11 billion by 2021 and to reach US\$ 38.0 billion by 2024 (6-7% CAGR). He pointed out that in future the thermoplastic and recyclable preregs will play a very important role wherein Slit-preg &

tow-preg applications are growing rapidly. He also said that India has huge potential for growth in this arena.

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

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)
3rd Defence-ITTA Joint Exhibition cum Seminar on Technical Textile held on 22nd & 23rd May 2017	₹2000	Seminar Proceedings (CD-ROM)
2nd Defence-ITTA Joint Exhibition cum Seminar on Technical Textile held on 15th & 16th June 2016	₹1000	Seminar Proceedings (CD-ROM)
First Indian Navy-ITTA Seminar on Clothing and Footwear held on 7th & 8th January 2016	₹1000	Seminar Proceedings (CD-ROM)
Symposium on Medical Textile -Applications & Opportunities held on 14th July 2015	₹1000	Seminar Proceedings (CD-ROM)
Symposium on Hi Tech Application Areas of Nonwoven held on 30th Jan 2015	₹1000	Seminar Proceedings (CD-ROM)
Handbook on Geosynthetics case studies of ITTA Members (2013)	₹750	Handbook

For Copies Contact

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*Courier charges extra

EXPORT-IMPORT PERFORMANCE OF TECHNICAL TEXTILE PRODUCTS

The Export and Import data of 207 approved technical textile products/items is presented below as an indicator of foreign trade performance of technical textile industry in India.

1. Performance in September 2020
2. Monthly Trend Analysis from Sept 2019 to Sept 2020 - To show the impact of COVID-19

1. PERFORMANCE IN SEPTEMBER 2020

A. EXPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Sep. 2019	Sep. 2020	% Growth	Apr'18 - Sep'19	Apr'19 - Sep'20	% Growth
1	Agrotech	49	66	36%	297	299	0%
2	Buildtech	58	64	11%	358	285	-20%
3	Clothtech	19	20	5%	103	91	-11%
4	Geotech	88	165	87%	462	744	61%
5	Hometech	10	20	106%	67	77	15%
6	Indutech	144	171	19%	958	784	-18%
7	Meditech	84	116	39%	526	528	0%
8	Mobiltech	110	135	23%	702	570	-19%
9	Packtech	457	513	12%	2713	2301	-15%
10	Protech	35	39	12%	274	156	-43%
11	Sportech	18	19	3%	116	141	22%
12	Nonwoven	74	180	144%	500	623	25%
	GRAND TOTAL	1146	1508	32%	7076	6599	-7%

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

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

- Nonwoven (+144%)** - Key Products: Wadding of man-made fibres, Nonwovens of other filaments: weighing not more than 25 g/sqm, weighing between 25 g/sqm and 70 g/sqm and Felt made of other textile materials.
- Hometech (+106%)** - Key Products: Fabrics covered with textile flocks, Gas mantles of Cotton & Rayon and Carpets of nylon or other polyamides
- Geotech (+87%)** - Key Products: Geogrids and Geo-composites.

B. IMPORT PERFORMANCE

(Value in INR Cr.)

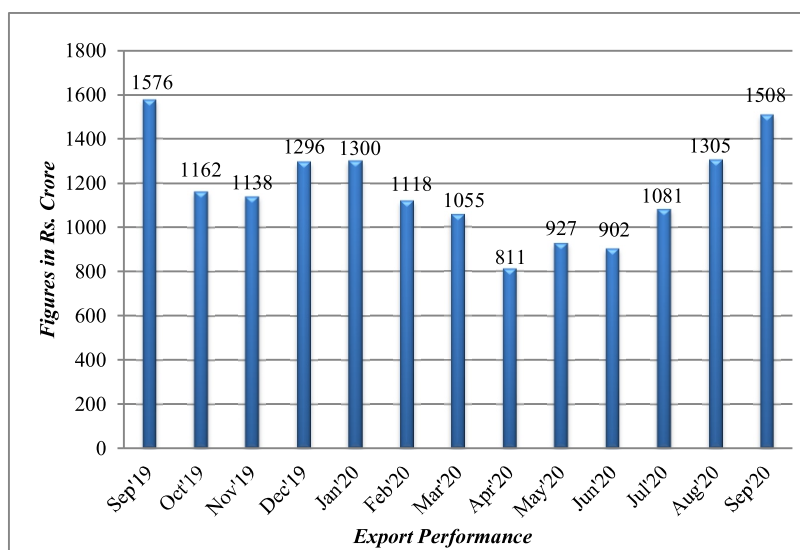
Sr. No	Segments	Sep. 2019	Sep. 2020	% Growth	Apr'18 - Sep'19	Apr'19 - Sep'20	% Growth
1	Agrotech	32	23	-28%	192	122	-37%
2	Buildtech	139	88	-37%	964	448	-54%
3	Clothtech	25	15	-39%	145	61	-58%
4	Geotech	129	100	-22%	842	482	-43%
5	Hometech	46	24	-48%	303	182	-40%
6	Indutech	197	178	-10%	1309	938	-28%
7	Meditech	50	48	-4%	295	237	-20%
8	Mobiltech	370	326	-12%	2534	1448	-43%
9	Packtech	51	41	-19%	260	190	-27%
10	Protech	47	33	-29%	258	187	-27%
11	Sportech	11	12	2%	61	46	-23%
12	Nonwoven	172	129	-25%	915	686	-25%
	GRAND TOTAL	1269	1017	-20%	8078	5027	-38%

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

2. MONTHLY TREND ANALYSIS - FROM SEPT 2019 TO SEPT 2020

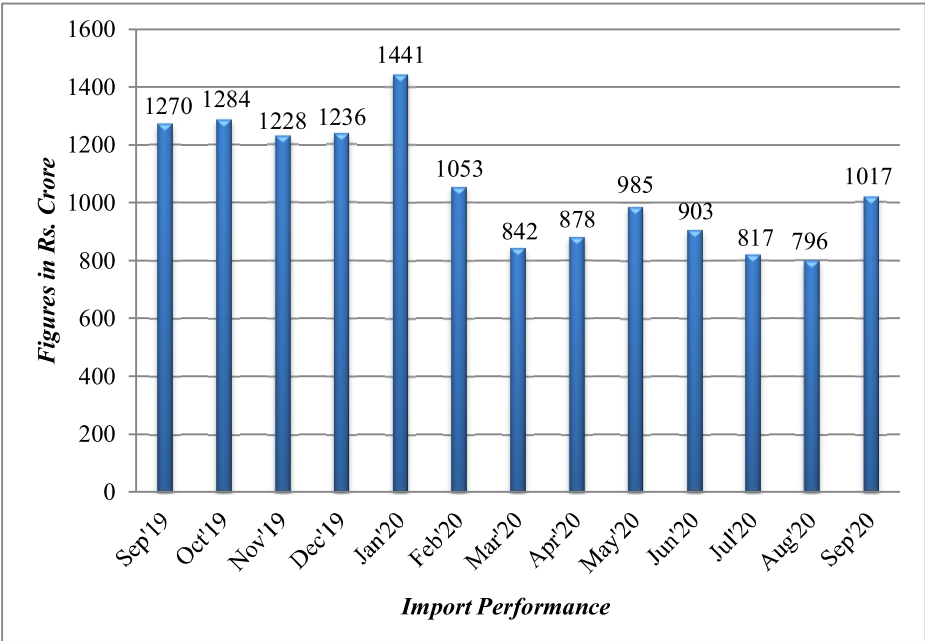
We have analyzed last one year data on the Export-Import Performance of our Industry. Intending to get hold of the situation, India announced its first nation-wide lockdown in March 2020, which led to the economic slowdown. The onset of the COVID-19 pandemic has pushed the industry to brink with production lockdowns, severe supply chain disruptions and market closures across both small and large economies. The trend of the last one year is presented in Figure 1 (on Export) and in Figure 2 (on Import).

Figure 1 - Monthly Trend of Export Performance



The above figures on Exports, reveals a grim situation. As an immediate aftermath of the spread of the COVID-19 pandemic to multiple countries, export demand has fallen significantly and many orders were cancelled. Further, the disruption of supply chains due to the ongoing lockdown has aggravated the poor performance of Indian exports - and the situation was worsen in the months of March, April, May, June and July 2020. Another major issue is the bans on the export of the medical textiles i.e. melt blown fabrics, PPE coveralls, N95 facemasks, etc to meet domestic demand. As the release of restriction/ ban on the export of these products excluding melt blown fabrics, the figures during the month of August & September 2020 started growing rapidly.

Figure 2 - Monthly Trend of Import Performance



As per the above data, India's imports of TT products have registered a decline from the month of March 2020 to August 2020 wherein many orders were cancelled due to the COVID-19 pandemic. But the import figure of September 2020 has shown improvement.



ITTA's Representation to lift ban on Melt blown fabrics

The Directorate General of Foreign Trade (DGFT) had imposed the ban on the export of melt blown fabrics due to the COVID-19 situation. In this regard, ITTA members who are manufacturers of melt blown fabrics and end product manufacturers approached ITTA to represent the issues and concerns on this subject. Accordingly, ITTA made a representation to Ministry of Textiles (MOT) to approach DGFT to allow the export of melt blown fabrics that are used for making PPE coveralls and different types of Face Masks explaining that presently there are 49 melt blown fabric manufacturers in India with yearly installed capacity of 15 KTA. From which 11 of these manufacturers are currently closed because of a stoppage of exports.

There are also non PPE applications like Air & liquid

Filtration which are predominantly export oriented and which were factored in by these manufacturers when they made the investments.

Infact, more than 50% of all melt blown made can be taken to be in the non PPE application segment. We have requested MOT to take up this issue with the DGFT, Ministry of Commerce to relax/ restriction on the export of these Melt blown fabrics to save Indian Industry.



ITTA suggested Skill Development Program for Technical Textile Industry

Ministry of Skill Development and Entrepreneurship (MSDE) have undertaken a National Skill Anticipation Study particularly focusing on the manufacturing sector including Textiles. MSDE had approached ITTA to assist in forming the right set of skill strategies particularly for the Nonwoven Industry. In this regard, ITTA had provided the following details to MSDE ---

- I. Skill Gaps/ Shortages in Nonwoven Industry - This should cover all Nonwoven processes i.e. Spun bond, Melt blown, Spun Lace, Needle

punch, Chemical bonding, etc. There should be at least 3 levels- M/C Operators/ Maintenance & Quality Assurance staff, Supervisors and Managers. Detailed requirements on their pre-qualification & course content were given to MSDE.

- II. Gaps in overall competitiveness: Segments in higher level skilling -
 - a. R&D, Product Innovation/ Development
 - b. Marketing

TRAINING



Perception survey on Indian Technical Textile Industry by ITTA

ITTA has undertaken a "Perception Survey on Technical Textile Industry" with an objective to understand the current status of the industry in India, financial and Technical requirements of the industry for future. The feedback is being obtained from ITTA members located in various states in India and covering all segments of technical textiles.

The information will be used for providing policy guidance in formulating the strategies to the Central/State Governments that would benefit the technical textile industry. Since it a very important Survey, response from each and every ITTA member is very important to take your voice to the appropriate authorities.

Survey on the Advanced Research Centre by MOT

Ministry of Textiles (MOT) had asked IIT-Delhi along with an International team of experts to prepare a technical report to enable the formation of a world-class centre for research in Textiles (including Technical Textiles) at Coimbatore. IIT-Delhi has requested ITTA to help them to get the requirements/ feedback from our industry on various segments of Technical Textiles - from Fibre

to finished products, machine manufacturing, e-textiles to artificial intelligence, etc.

Since R&D and Product Innovation on technical textiles are extremely important areas, response from each and every ITTA member is very important to get our industry needs and incorporate in this program of MOT. We expect every ITTA member should give their needs.

Virtual Exhibition on Technical Textiles - Organised by CII

Confederation of Indian Industry (CII) organized the "Virtual Exhibition on Technical Textiles" from 15th October to 15th December 2020. The event is supported by the Indian Technical Textile Association (ITTA). The event serves as the right platform for interaction between the Exhibitors and prospective buyers. The event offers unique business opportunities for the industry leaders to

reach out to quality customers and also provide networking opportunities.

ITTA has mobilized its member to participate in the exhibition and following members. More than 150 delegates visited the ITTA members' stalls and shown interest in different products that are displayed online by members.

List of Exhibitors:

J B ECOTEX LLP	RABATEX INDUSTRIES
NOBLETEX INDUSTRIES LTD.	TEX & TWIST
DUCIT MATERIALS LLP	CHARANKATTU COIR MFG. CO. (P) LTD.
PARRY ENTERPRISES INDIA LTD	

ITTA had also participated in the Virtual Exhibition on Technical Textiles. Number of delegates visited the stall, enquired about activities of ITTA, future

conference and exhibition and showed interest to become a member.

Cabinet approves Rs.10683/- Cr on PLI Scheme to Boost Technical Textile & MMF Sectors

The Union Cabinet has given its approval to introduce the Production-Linked Incentive (PLI) Scheme in the 10 key sectors for Enhancing India's

Manufacturing Capabilities and Enhancing Exports - Atmanirbhar Bharat in the Press release dated 11th November 2020.

Priority	Sectors	Implementing Ministry/ Department	Approved financial outlay over a five-year period Rs. crore
1	Advance Chemistry Cell (ACC) Battery	NITI Aayog and Department of Heavy Industries	18100
2	Electronic/ Technology Products	Ministry of Electronics and Information Technology	5000
3	Automobiles & Auto Components	Department of Heavy Industries	57042
4	Pharmaceuticals drugs	Department of Pharmaceuticals	15000
5	Telecom & Networking Products	Department of Telecom	12195
6	Textile Products: MMF segment and technical textiles	Ministry of Textiles	10683
7	Food Products	Ministry of Food Processing Industries	10900
8	High Efficiency Solar PV Modules	Ministry of New and Renewable Energy	4500
9	White Goods (ACs & LED)	Department for Promotion of Industry and Internal Trade	6238
10	Speciality Steel	Ministry of Steel	6322
	Total		145980

Detailed guidelines and incentives are yet to be published by GOI. The PLI scheme will be implemented by the concerned ministries/departments and will be within the overall prescribed financial limits.

The PLI scheme across these 10 key specific sectors

will make Indian manufacturers globally competitive, attract investment in the areas of core competency and cutting-edge technology; ensure efficiencies; create economies of scale; enhance exports and make India an integral part of the global supply chain.



The Indian textile industry is one of the largest in the world and has a share of ~5% of global exports in textiles and apparel. But India's share in the manmade fibre (MMF) segment is low in contrast to the global consumption pattern, which is majorly in Cotton dominated products. The PLI scheme will attract large investment in the sector to further boost manufacturing, especially in the MMF segment and technical textiles.

It is pertinent to mention that various association/trade bodies were persuading with the MOT to focus on MMF, while technical textile has been an area of focus for the MOT since last few years. The scheme would encourage the industry to make investment in the manufacturing of these high value-added products.

The scheme will help to make Indian manufacturers globally competitive and enhance exports. India has been lagging behind in the MMF textile trade due to expensive raw materials, non-availability of high performance fibres/yarns for technical textiles and

high tariff barriers apart from cheaper imports from neighbouring countries. The move will lead to overall growth in the economy and create huge employment opportunities.

The Prime Minister's clarion call for an 'AatmaNirbhar Bharat' envisages policies for the promotion of an efficient, equitable and resilient manufacturing sector in the country. Growth in production and exports of industrial goods will greatly expose the Indian industry to foreign competition and ideas, which will help in improving its capabilities to innovate further. Promotion of the manufacturing sector and creation of a conducive manufacturing ecosystem will not only enable integration with global supply chains but also establish backward linkages with the MSME sector in the country. It will lead to overall growth in the economy and create huge employment opportunities.

[Source-<https://pib.gov.in/PressReleasePage.aspx?PRID=1671912>]

Govt. to soon launch Focused Product Scheme with emphasis on Man-made fibre, Technical Textiles'

The government will soon launch a Focused Product Scheme with an emphasis on man-made fibre and technical textiles segment, according to Textiles Secretary Shri. Ravi Capoor, who told at virtual event organised by the Confederation of Indian Industry (CII). He said that "we are very, very close to launching the Focused Product Scheme." He added that "much to the anger of the general industry, we are deliberately focusing the entire production linked scheme to the man-made fibre and the technical textiles."

Shri. Capoor also urged the domestic players to focus on the top 10 technical textile lines globally constituting about USD 82 billion, in which India's share is a miniscule 0.6 per cent. He said "huge benefits" will be offered to kick-start these technical

textile lines. The government is also looking at setting up a special export promotion council to promote the technical textiles segment, he added.

Shri. Capoor had earlier said the proposed Focused Product Scheme aims to promote both greenfield as well as brownfield investments in the specified segments. Technical textiles include textiles made for automotive applications, medical textiles, geotextiles, agrotexiles and protective clothing, among others.

[Source-<https://www.financialexpress.com/industry/govt-to-soon-launch-focused-product-scheme-with-emphasis-on-man-made-fibre-technical-textiles/2121134/>]

Valmet to invest in filter fabric manufacturing in India



Finland based Valmet, one of the leading suppliers of filter fabrics and industrial textiles globally. Its offering covers filter fabrics and felts for the mining and chemical, pulp and paper, dry filtration and laundry industries.

Valmet has decided to invest in filter fabric manufacturing in Pune, India in order to better serve its customers and improve delivery times of filter fabrics to the Asia Pacific and Middle East areas. The investment includes manufacturing equipment for filter fabric production. The new unit will start operation in the second quarter of 2021.

"This investment gives us the necessary assets to further develop our services close to customers and strengthen our position in the market. It also ensures our capacity for the coming years to deliver filter fabrics that respond to customer needs for maximized reliability and optimized performance of their production process," says Mr. **Tero Kokko**, Vice President, Fabrics Business Unit, Valmet.

[Source-<https://www.valmet.com/pt/Midia/news/press-releases/2020/valmet-to-invest-in-filter-fabric-manufacturing-in-india>]



Indian fabric to replace Chinese clothing for military uniforms

Defence Research and Development Organisation (DRDO) is helping Indian textile industries produce yarns to end the reliance on imports of Chinese and other foreign clothing for making military uniforms.

Director of Directorate of Industry Interface and Technology management (DIITM) at DRDO, Dr. Mayank Dwivedi said that for Indian army's summer uniform alone, the approximate requirement of the fabric is 55 lakh metres and if all the requirements of Navy, Air Force and Para Military forces are added then the requirement may go well beyond 1.5 crore metres per annum.

"We're following our Prime Minister Narendra Modi's call for Atmanirbhar Bharat or self-reliance in all the products in India and particularly in defence products. If these yarns and fabric are manufactured in India for the purpose of uniform making for the armed forces, then it will be big achievement as it will help us move one step ahead towards Atmanirbhar Bharat," Dr. Dwivedi told. The advanced fabrics can be used for future requirement of the parachute and bulletproof jackets as well.

The DIITM Director further said that the scope of technical textiles such as glass fabric, carbon fabric, aramid fabric and advanced ceramic fabrics is enormous in defence application. Some industries in Ahmedabad and Surat are manufacturing advanced fabrics being used in defence applications.

In a recent digital interaction organised by Confederation of Indian Industries (CII) with the industries of Surat on September 17th, the challenges faced by the textile industry were projected. During the interaction, Dr. Dwivedi had talked about opportunities in the areas of textile in the defence sector. He expressed his views on various possibilities of advance textile material and fabric used in the Indian Armed Forces.

"We are working to make technical textile for rocket motors and composite structure for the missile

system. We are using technical textile in bullet-proof jackets as well. Similarly, shared the idea of making blends like nylon 6.6 yarn, lycra fibre, viscose, polyester to make army uniforms at the CII webinar in the Surat industry recently. For a particular requirement of the Indian armed forces, the uniform can be made in a much better way," Dr. Dwivedi told.

Pointing towards the initiative and the participation of Indian companies, he said, many companies showed interest from the 200 companies in getting into this business during the webinar. This will not only boost the economy of the country but also generate lots of employment and eventually give a boost to the GDP also.

[Source-<https://www.livemint.com/news/india/indian-fabric-to-replace-chinese-clothing-for-military-uniforms-11606393514038.html>]

Anti-dumping duty on FDY Polyester yarn imports from China, Thailand extended till year end.

The government has extended levy of anti-dumping duty on imports of fully drawn or fully oriented yarn, spin drawn yarn or flat yarn of polyester, coming from China and Thailand, till December 31, 2020, according to a notification by the Central Board of Indirect Taxes and Customs (CBIC).

The duty was first imposed in October 2015 after the Directorate General of Trade Remedies (DGTR) had found that the imports were impairing local industry. The duty was then extended till November 30, last month, and now has been extended further by a month. The Board added that the designated authority, in this case the Directorate General of

Trade Remedies (DGTR),
h a d s o u g h t f o r
c o n t i n u a t i o n o f t h e
a n t i - d u m p i n g d u t y
a f t e r
c o n d u c t i n g
a r e v i e w
o f t h e
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e which was initiated in April this year.

"The designated authority has requested for further extension of the antidumping duty on the subject goods originating in or exported from the subject countries," the notification added. In international trade parlance, dumping happens when a country or a firm exports an item at a price lower than the price of that product in its domestic market. Dumping impacts the price of the product in the importing country, hitting margins and profits of manufacturing firms.

According to global trade norms, a country is allowed to impose tariffs on such dumped products to provide a level-playing field to domestic manufacturers. The duty is imposed only after a thorough investigation by a quasi-judicial body, such as DGTR, in India. Imposition of anti-dumping duty is permissible under the World Trade Organization (WTO) regime. India and Vietnam are members of the Geneva-based organisation, which deals with global trade norms. The duty is aimed at ensuring fair trading practices and creating a level-playing field for domestic producers vis-a-vis foreign producers and exporters.

[Source-<https://textilevaluechain.in/2020/11/27/anti-dumping-duty-on-yarn-imports-from-china-thailand-extended-till-year-end/>]

Revokes anti-dumping duty on Nylon tyre cord fabric

The Central Board of Indirect Taxes and Customs (CBIC) in a Notification No. 45/2020-Customs (ADD) on 3rd December 2020 said, "the Central Government revoked the anti-dumping duty imposed on "Nylon Tyre Cord Fabric (NTCF)", falling under chapter 59 of the First Schedule to the said Act, originating in or exported from People's Republic of China, and imported into India".

The duty was first imposed on such imports in June 2015. The Directorate General of Trade Remedies (DGTR) had in October recommended extending the duty of \$520- 1100 per MT on the product for five years on grounds that there was a likelihood that the dumping will continue and hurt local industry if ceased at this time.

CBIC did not provide any reason for discontinuing the duty. Nylon tyre cord fabric is used in tyres to give them strength and flexibility. In international trade parlance, dumping happens when a country or a firm exports an item at a price lower than the price

of that product in its domestic market. Dumping impacts price of products in the importing country and adversely affects margins and profits of manufacturing firms.

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[Source-<https://www.thehansindia.com/business/government-revokes-anti-dumping-duty-on-nylon-tyre-cord-fabric-660029>]

NEW MEMBERS

WELCOME TO NEW MEMBERS

GBKC is an export house providing holistic solution in the apparel industry. GBKC have state of art manufacturing facility. They are working for leading brands in India as well as abroad such as Blackberrys, Aditya Birla, Reliance Retail, US Polo Assn, Raymond, Brakeburn etc. GBKC started manufacturing in-house Medical Textiles such as Isolation & Surgical Gowns, PPE Body Coveralls, Scrub Suits & other protective apparels- 25.65 cr. (FY 2019-20). They have machineries like Ultrasonic Stitch welding m/c, Ultrasonic Spot welding m/c, Hot Air seam sealing m/c, Cross over sealing m/c, Hydraulic testing m/c, etc.



MEDITECH - Antimicrobial fiber with Silver Technology, Eco-Friendly Nonwoven, Antiviral and Antibacterial Finishes & Flushable Sanitary Pads

First Antimicrobial Product with Silver Technology



PureAir Filtration based in USA, the trailblazer in removing corrosive gases, toxic vapours and odours, announced it has launched a strategic partnership with Noble Biomaterials, USA, the global leader in antimicrobial and conductivity solutions for soft-surface applications. The companies have developed an antimicrobial fiber called FiberShield™ that can be used as an added fabric layer in particulate filters to help fight microbes amid the COVID-19 pandemic.

FiberShield™ is made of a proprietary blend of nonwoven nanofibers that are impregnated with antimicrobial Ionic+™ silver technology. The antimicrobial fabric can be used in any particulate filter and is the only one on the market to offer such flexibility to filter manufacturers. FiberShield™ with Ionic+ technology has been tested and proven effective by independent testing laboratories to inactivate over 99% of specific pathogens.

PureAir also debuted a second product in its antimicrobial line called Microbe-sorb™, an adsorbent media that utilizes a proprietary blend of compounds to activate, enhance and deliver the strong antimicrobial properties of permanganate, a material commonly used in medical practices since the early 1800s. Independent laboratory tests show Microbe-sorb inactivates over 99% of microbes on contact. Both of PureAir's new products are aimed at mitigating the impact of the COVID-19 pandemic by focusing on improving air quality through gas, odour and pathogen removal.

[Source-<https://www.businesswire.com/news/home/20201023005343/en/PureAir-Filtration-Partners-With-Noble-Biomaterials-to-Launch-FiberShield%E2%84%A2-The-First-Antimicrobial-Product-With-Silver-Technology-That-Can-Be-Used-in-Any-Filter>]

Fabrics with antiviral and antibacterial finishes certified by ISO

Italian protective fabrics producer Argar has greatly enhanced the desirability of its popular AVirTex antiviral and antibacterial fabrics range. AVirTex fabrics are now certifiable to ISO 18184 standard, even after 30 washes at 60°. Argar, with the AVIRTEX line, offers a range of fabrics

characterized by an innovative technology joining: An antiviral and antibacterial action that kills viruses and bacteria present on the fabric ensuring effective protection against their transmission and preventing the contamination and A water repellent treatment that prevents the passage of

droplets through the fabric (droplets, among the main causes of transmission of viruses and bacteria).

The combination of these two finishes guarantees a safer protection compared to standard fabrics used for the same purpose. Argar, in collaboration with HeiQ, the leading Swiss company in the formulation of chemical products for textile industry, has developed an antiviral and antibacterial treatment for its articles using the innovative HeiQ Viroblock formula.

Argar is also making a range of AVirTex antiviral and antibacterial face masks to help in the fight against COVID-19. The fabric used to manufacture the face masks can be either woven (NC5201-VRW) or knitted (J3106-VRW), and Argar says the masks are both double layer and ergonomic. AVirTex antiviral and antibacterial face masks are also eco-friendly because they can be reused and are not disposable, and they are certified ISO18184 after 30 washes.

They have also introduced a new AVirTex antiviral and antibacterial fabric which is suitable for hospital gowns and other personal protective equipment (PPE) applications. AVirTex NC5205-VRW is a 65% polyester/ 35% cotton blends, which weighs in at 125 gsm.

This is why it is an advantage to wear Argar AVIRTEX fabrics, treated with antiviral and antibacterial



finishes: Vanquish 99% of viruses between 2 and 5 minutes, Reduce the risk and speed of contamination and retransmission of pathogens from tissues, Prevent the passage of droplets (among the main causes of transmission of viruses and bacteria) through the fabric thanks to the water repellent treatment & Prevent the tissues from becoming host surfaces for the spread of viruses and bacteria because they slow down their growth and persistence.

[Source-https://www.innovationintextiles.com/fibres-yarns-fabrics/argars-avirtex-fabrics-certified-iso18184-after-30-washes-at-60/?utm_source=news_alerts&utm_medium=email&utm_campaign=news_alerts]

Flushable and Biodegradable Sanitary Pads

U.K. based personal hygiene company Planera has created a flushable and biodegradable sanitary pad - a move expected to positively impact the level of waste the industry produces and fails to dispose of each year.

Planera's pads have been successfully and independently tested in accordance with WIS 4-02-06, the water industry specification for flushability

testing. The pad breaks down in two parts. First, with the hydraulic action of the toilet flush pulls the layers of the pad apart allowing it to start making its way down the drain line. Then, the 3mm cellulose fibres loosen and break apart. These steps ensure that the sanitary pad disintegrates by the time it reaches the wastewater treatment plant and can be treated along with toilet paper and sewage.

Planera sanitary pads are constructed in three layers. The top-sheet is made with biodegradable plant fibres that are cushioned to be gentler on the skin. It's naturally absorptive so blood rapidly wicks into the pad's core. The wood pulp core rapidly removes the blood from the top-sheet and distributes it across the core. The biodegradable powder then locks the blood as a gel, finally locking it in place before it even reaches the barrier.

Three years of research and development has resulted in the UpFlow Barrier - a sustainable barrier made up of multiple layers each playing an important role to protect from any leakages and be safe to flush. The top of the barrier is impervious to blood and the bottom absorbs any sweat during use, reducing humidity. It is a huge game-changer for the personal hygiene industry to finally have a sanitary pad that can be flushed. Not only does this

significantly reduce its impact on the environment, but it also makes sanitary pads easier to be disposed of.

[Source - https://www.nonwovens-industry.com/contents/view_breaking-news/2020-11-10/planera-introduces-flushable-pads/15325]

Eco-Friendly Nonwoven for making wipes

Polish company EcoWipes has created Tricell - an innovative nonwoven based on FSC-certified cellulose. The cellulose pulp is produced by dissolving, cleaning and bleaching fibres. Since it is a natural nonwoven, Tricell is more absorbent than the standard viscose and polyester mixture, and its strength grade is comparable to cotton.

The material is biodegradable - both dry nonwoven and finished wet wipes biodegraded in soil in laboratory conditions within 3 months. For Tricell, EcoWipes uses the same cellulose as the papermaking industry.

The goal for EcoWipes is to develop innovative technologically advanced solutions which will provide eco-friendly alternatives for distributors and will make it possible to eliminate plastic from hygienic and cosmetic products. With Tricell, large



Tricell after 1 week



Tricell after 2 weeks

retail chains will be able to save as much as 450 tons of plastic annually on wet wipes for children.

For the hygiene products industry, this is a revolutionary development. The innovative material will make everyday care products safe not only for the skin, but also for the environment, the company says.

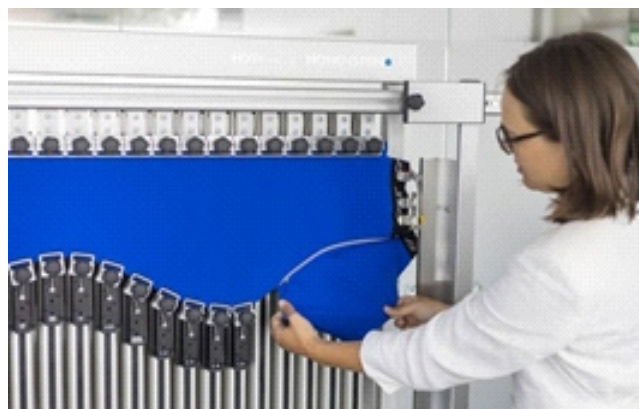
[Source - https://www.nonwovens-industry.com/contents/view_breaking-news/2020-11-04/ecowipes-launches-eco-friendly-nonwoven/15325]

SPORTECH - Smart Heated Gloves and Socks & New Standard for Sportswear

New compression standard for sports and leisure garments

Germany based testing service provider Hohenstein has developed a new standard i.e. DIN SPEC 4868, which will define the market standard and testing protocols for compression behaviour of sportswear. This is first uniform standard for compression in sports and leisure segment where textile compression properties can be transparently checked.

The DIN SPEC 4868 test method combined with Hohenstein's compression testing device HOSYcan



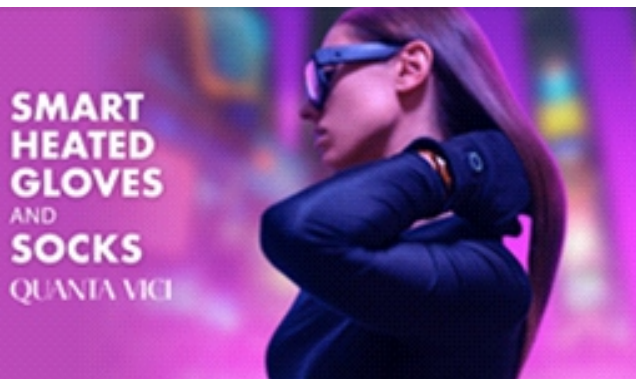
will enable objective comparison of products and materials with analytical performance data on the desired properties.

“The objective and precise data obtained with HOSYcan will serve as the basis for innovative product development as well as for quality assurance and competitive comparisons,” Mr. Florian Girmond, Hohenstein expert in charge of developing the new standard, said in a press release.

In addition to the test scenarios defined in DIN SPEC 4868, HOSYcan can be customised for special requirements for any products, from compression cuffs and socks to shapewear, shirts, underwear and trousers.

[Source-<https://www.hohenstein.com/en/press/detail/new-compression-standard-din-spec-4868-for-sports-and-leisure-garments/>]

First ever Smart Heated Gloves and Socks



Quanta Vici, Canada, a smart wearable company, has unveiled first ever smart heated gloves and socks. These heated gloves and socks provide to-the-degree customisable heat in packages that look sharp and keep wearers warm and comfortable. Their smart wearables offer smart temperature regulation up to 131 degrees Fahrenheit. This



means precision temperature control, so each wearer can choose their ideal temperature degree for maximum comfort. With even heat distribution and a battery that lasts up to 6.5 hours when used at the highest setting, or multiple days on medium settings, these Smart Socks and Gloves will last no matter the activity.

A full charge is achieved in under two hours via USB-C fast charging, and if the day requires heat for more than 6.5 hours, it's also easy to connect the gloves or socks to any portable power bank for simultaneous

heating and on-the-go charging, should the need arise for extra power.

Quanta Vici smart wearables are waterproof and ready for wear in any cold weather situation. They leverage unique carbon fibres to evenly distribute heat to ensure all extremities are kept comfortably warm. This Smart Gloves are lightweight and feature touchscreen-friendly fingertips and anti-slipping grip texture. The gloves are made from 75% recycled polyester and 25% spandex, while the socks feature a blend of wool, nylon, and spandex.

Temperature is maintained via Integrated Smart Sense Apparel Control. This proprietary system of sensors measures the temperature inside the wearable to regulate heat to each user's preferred setting down to the degree. Quanta Vici's smartphone app allows wearers to check battery time to know whether it's time to recharge from within the app, and quickly check the temperature settings and make adjustments if needed. The app also features a memory setting, so users don't have to worry about remembering what their heat preferences are.

[Source-https://www.prweb.com/releases/quanta_vici_launches_first_ever_smart_heated_socks_and_gloves_on_kickstarter/prweb17504142.htm]



Recycled PET tufted automotive carpets

Automotive textiles manufacturer Autoneum, Switzerland has launched an innovative tufted carpet with *Relive-1* that meets the highest requirements of sustainable mobility. The tufting technology for the compact to premium class, which has been awarded the Autoneum Pure label for outstanding environmental friendliness, is also more durable than the carpet standards common in these vehicle segments and convinces with excellent cleanability.

Global demand for innovative cars of the future and sustainable forms of mobility is rising, Autoneum informs. Accordingly, automobile manufacturers and suppliers are increasingly focusing their vehicle development activities on resource saving lightweight components and production processes. In addition, it says, the look and feel of the passenger cabin is a decisive factor in the purchasing decision, as in the future the car will be used increasingly for work and recreation. Here, carpet systems play a key role in terms of quality perception because of their size, Autoneum explains.

With Relive-1, Autoneum now offers a premium technology for automotive carpets that not only scores with its aesthetic appearance, but also has an exceptional environmental performance. Among

other things, it adds, carpets made of Relive-1 feature a particularly sustainable use of raw materials: for example, only recycled PET bottles are used to manufacture the carpet yarns. Autoneum reuses this raw material, thus conserving natural resources and reducing plastic waste, while at the same time ensuring that new, high-quality carpet systems for future vehicle generations can be produced cost-effectively from used PET bottles. Moreover, Relive-1 is an important step towards mono-material constructions and consequently, zero waste tufted carpet production.

At the same time, Autoneum expands, Relive-1 stands for the above average product quality of Autoneum: compared to standard carpets in compact to large class vehicles, Relive-1 carpets are more robust thanks to significantly higher abrasion resistance, and easy to clean thanks to the vertical alignment of the filaments and the water repellency of polyester. As a result, small particles such as wood splinters, dust or pebbles as well as liquids can be removed easily with no residual traces.

[Source - <https://textile-network.com/en/Technical-Textiles/Textile-Flaechen/Autoneum-High-quality-tufted-carpets-made-of-recycled-PET>]

MACHINERY - WeftMaster SFB-L weft brake



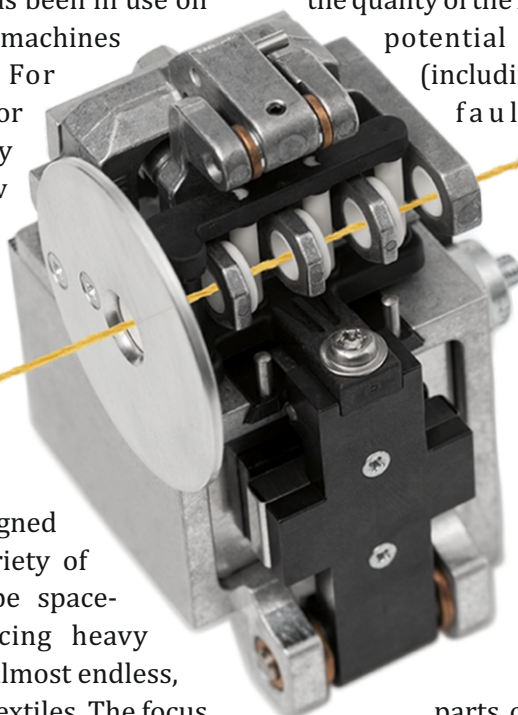
Loepfe Brothers based in Switzerland has announced that the company's WeftMaster SFB-L yarn brake is the perfect system for producing coated technical fabrics on projectile and rapier looms in the most economical way.

The WeftMaster SFB weft brake has been in use on projectile and rapier weaving machines worldwide for many years. For instance, the control electronics for the SFB weft brake were recently redesigned for the future. The new electronics can now control 4 brakes instead of the previous 3, which saves space and simplifies the brake deceleration setting. In addition, the inputs are now also galvanically isolated.

Projectile looms are designed for the production of a wide variety of fabrics and are considered to be space-saving, especially when producing heavy fabrics. Thus the applications are almost endless, especially in the field of technical textiles. The focus is always on the high-quality requirements of the various end-products. Especially when yarns with a low tensile strength are used, weft tension is a decisive parameter. Too much stretching can lead to uneven fabric or, in the worst case, to weft thread breaks, which lead to expensive machine stoppages. Therefore, a constant, even weft thread tension is

essential for all yarn types.

By using the WeftMaster SFB electronic weft thread brake, the number of weft breaks can be reduced by at least 50%. Its use pays off for the weaving mills within a very short time and significantly improves the quality of the fabric. Every weft break is a potential source of error (including start-up faults, the formation of stripes, etc.).



WeftMaster SFB weft brake increases machine efficiency. It is in use for the production of tarpaulin fabrics, advertisements, agriculture, architecture, filter fabric, geotextiles, canvas, conveyor belts, microphone filters for mobile phones, speaker filters for mobile phones, carbon fibre fabrics for auto parts, carpet backing, etc.

[Source-<https://www.loepfe.com/en/navigation/gnav/news-events/news/20-11-17-sfb-l-truck-tarpaulins>]

TECHNOLOGY - Improved ViralOff® Technology & Particle Screen Fabric Technology for facemasks

Improved ViralOff® technology with lifetime of garment washability



Sweden based Polygiene had launched its newly developed formula of ViralOff® with lifetime of garment washability is set to 30 washes, proving performance against SARS-CoV-2 with over 99% reduction of microbes in the material within two hours. This also results in longer lasting products, which means a reduced impact on the environment.

"There has been some confusion in the market as claims to washability wrongly rely on tests that are not antiviral, but rather antibacterial. We have therefore developed a treatment that provides an antiviral effect according to global test standard ISO 18184:2019 (Determination of antiviral activity of textile products) and really meets the antimicrobial and antiviral claims that we make", says Mr. Daniel Rome, Chief Technology Innovation Officer at Polygiene.

"Demand has been high from the fashion and lifestyle segments for an improved formula of Polygiene ViralOff® that will have lifetime washability with a maintained high level of viral reduction. As the pandemic has evolved, there seems to be a consensus on the fact that antimicrobial materials will be the 'new normal' in products such as garments, bags, often-touched items, cleaning and home products and more, going forward. This regardless of the number of vaccines that are being developed, which we hope will put a stop to or slow

down this global pandemic. I believe that when the world is re-opening, this feature will be highly valued by many people", concludes Ms. Ulrika Bjork, CEO Polygiene.

She said, we still believe that fewer washes are always a good thing. However, we also want to make sure that products that need to be washed, keep their effectiveness, get an extended lifetime and are not thrown away too early. Polygiene ViralOff® is an antimicrobial treatment added to textiles and other products to protect the treated article itself from contamination and is not intended to cure or prevent diseases.



VIRALOFF IS THE ANSWER TO AN ACUTE SITUATION, BUT IT WILL ALSO BE A MORE LONGTERM SOLUTION THAT ENHANCES THE HYGIENE AND PROTECTION FACTOR ON A NUMBER OF PRODUCTS EVEN WHEN THE COVID-19 PANDEMIC HAS SETTLED DOWN. THERE ARE STRONG INDICATIONS THAT ANTIMICROBIAL WEAR WILL BE THE NEW NORMAL IN NUMEROUS APPLICATIONS, GOING FORWARD.

[Source-<https://www.prnewswire.com/news-releases/polygiene-launching-improved-viraloff-technology-with-lifetime-of-garment-washability-301173433.html>]



High-performance three layer facial covering fabric

Georgia based NexTex Innovations has launched its ParticleScreen fabric technology developed for facial coverings that can be comfortably worn for extended use and while being active. ParticleScreen is a 3-layer fabric system that is said to deliver superior blocking against airborne particles while keeping its wearers comfortable for prolonged periods of time.

“As the coronavirus pandemic has progressed, one of the chief complaints from consumers is that facial coverings are uncomfortable,” said Mr. Chad Lawrence, NexTex's CEO. “This presents a dilemma for the user: if a mask or facial covering is uncomfortable, they're more likely not to wear it for as long or at all. ParticleScreen fabric technology provides a breathable, particle-blocking solution while keeping the skin around your face dry and temperature regulated. The fabric development process - from concept to commercial availability - took under six months, which was remarkable.”

ParticleScreen fabric technology is made with NexTex's TurboDry technology, a unique fabric that is said to keep users' skin significantly drier than regular wicking materials. Its patent-pending, one-way moisture transport process produces comfort and drying speeds unlike any material on the market.

When used for facial coverings, a 3-layer defence is created by combining a TurboDry inner layer against the skin, a proprietary film in the middle, and an outer layer, which can optionally be treated to have durable water-repellent and antimicrobial properties. This unique construction means ParticleScreen fabrics block particles on par with the



most advanced, non-medical facial coverings. ParticleScreen facial coverings are washable and reusable, making them among the most sustainable masks on the market. The fabrics used in the masks are also bluesign and Oeko-Tex certified.

[Source-https://www.innovationintextiles.com/fibres-yarns-fabrics/nextex-launches-highperformance-three-layer-facial-covering-fabric/?utm_source=news_alerts&utm_medium=email&utm_campaign=news_alerts]

HIGH PERFORMANCE TEXTILES PVT. LTD.

Development of Coated Cut-Resistant Gloves for Personal Protection

Cut-Resistant gloves are used to protect our hands while performing various industrial tasks such as cutting, slicing, assembling, painting, foundry work, grinding, sewing, loading parts, lifting trays, etc. These gloves can be designed as per end user requirements to provide protection against thermal and mechanical hazards. Their company manufactures HPT Flex® and HPT Aracore® yarns (using Ultra High Molecular Weight Polyethylene fibres, Aramid and other high performance fibres) which are used to knit seamless cut-resistant gloves.

Their yarns can be knitted into seamless gloves using 13, 15, 18 or 21 gauge gloves knitting machines. Further, they have developed water based PU coating technology on pilot scale and looking for interested companies for bulk manufacturing. These gloves are tested as per EN 388 and EN 407 standards



DILO GROUP

Hydroentanglement Technology Cooperation with SICAM

Dilo Group is a leading supplier of complete lines for nonwoven fabric production, traditionally specialized in all types of needling lines for staple fibre products as well as high speed needlelooms for spunbonds.

Development of the high-speed layering principle "Hyperlayer" made possible progress for better CD

inline cards and crossline card

with crosslapper. Particularly, carding machines in a working width above 3.5 m up to 5.1 m have been supplied by DiloSpinnbau as complete high speed carding systems, comprising two or even three cards in a line to directly feed the hydroentangling units of various suppliers. Together with DiloTemafa not only have high throughput rates been achieved in the fibre preparation section of the line but also dedusting filtering and air-conditioning systems have been successfully engineered and integrated.



considera

strength through a combination of

Until recently, Dilo did not supply complete lines including water-jet units, ovens and end-of-line equipment to the important hydroentanglement market segment. This has changed during the summer and Dilo is glad to confirm their partnership with Sicam, Italy. Together with Sicam, they have combined know-how for hydroentangling technology and therefore can provide complete lines as general contractor including equipment for cutting, winding and packaging.

They have been recently successful with the sale of a complete line for hydroentangled products in Portugal. The market for medical and hygiene lightweight products is booming and will require more hydroentangling capacity. On the basis of their considerable fibre preparation and web-forming know-how they are looking forward to a successful cooperation with Sicam covering the market with our related activity.

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Half page	Rs. 6000* <input type="checkbox"/>	Rs. 16000* <input type="checkbox"/>	Rs. 30000* <input type="checkbox"/>

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J.B. Nagar, Andheri-East, Mumbai - 400059.

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

UPCOMING EVENTS

NOVEMBER 2020

E-TEXTILES (Virtual)

3-4 November 2020

Web: <https://e-textilesconference.com>

IFAI VIRTUAL EXPO 2020

2-12 November 2020

Web: <https://ifaexpo.com>

HYGIENIX (Virtual)

17-19 November 2020

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

JANUARY 2021

HEIMTEXTIL (International Trade Fair for Home and Contract Textiles)

12-15 January 2021, Frankfurt, Germany

Web: <https://heimtextil.messefrankfurt.com>

TECHTEXTIL RUSSIA

26-28 January 2021, Moscow, Russia

Web: <https://techtextil-russia.ru.messefrankfurt.com>

FEBRUARY 2021

FILTECH 2021

23-25 February 2021 in Cologne, Germany

Web: <https://filtech.de>

MARCH 2021

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://techtextil.messefrankfurt.com/frankfurt/en.html>

JUNE 2021

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>

AUGUST 2021

TECHTEXTIL NORTH AMERICA

23-25 August 2021, North Carolina, USA

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

SEPTEMBER 2021

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>