INDIAN TECHNICAL TEXTILE ASSOCIATION

E-BULLETIN

e-magazine for members

Issue No.76 November-December, 2021

MEETING BETWEEN ITTA OFFICIALS AND MINISTER OF TEXTILES ON 5TH NOVEMBER 2021

CONFERENCE ON "DIVERSIFIED APPLICATIONS OF NONWOVENS IN TECHNICAL TEXTILES" HELD ON 17TH DECEMBER 2021 IN NEW DELHI

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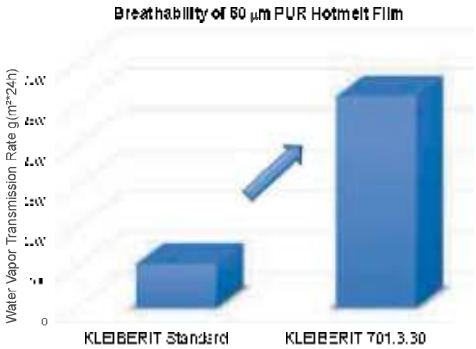

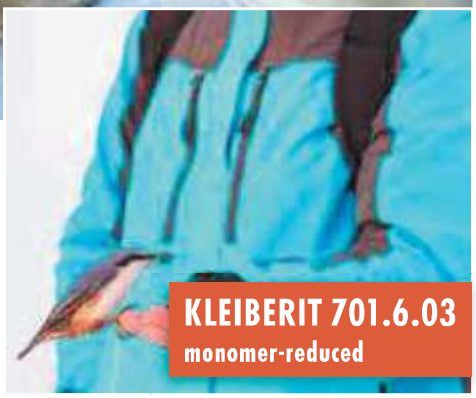

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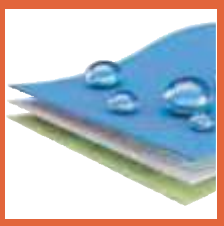
PRODUCT INFORMATION



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AHMEDABAD TEXTILE INDSUTRY'S RESEARCH ASSOCIATION (ATIRA)
Research, Innovation and Excellence

ATIRA – Marching Forward in the Technical Textile Sector

Centre of Excellence for Composites
(Ministry of Textiles)

Centre of Excellence for NanoSpinning Technology
(Govt. of Gujarat)

Nodal Agency for Geotextile
(Ministry of Textiles)

SERVICES

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(Calibration & Testing labs are NABL Accredited)

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- Geo textile
- Protective Textile
- Medical Textile
- Industrial Textile

Composite Testing

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- Electrical test
- Non Destructive tests
- Performance tests

Eco Testing (Partial NABL. Applied for full NABL)

Heavy metals	Pesticides
Banned amines	PAH / PCB / PFC
VOC	Halogenated solvents
Phthalates	AP / APEO / NP / NPEO
Dye carcinogenic	Dye Disperse
Chlorophenol	Chlorotoulene

pH / COD / BOD / TDS / Cynide / Sulfide

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- Carbon weaving / 3D Radial Braiding / Dref Spinning
- Winding / Sectional Warping / Coating & Lamination
- Pultrusion / Compression Moulding / Vaccum Infusion

ENVIORNMENT AUDIT

- Water & Waste water
- Air & Soil pollution
- *GPCB Schedule 1 Auditors*

CALIBRATION

- Electro technical
- Mechanical
- Thermal

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Conference on "diversified Applications of Nonwovens in Technical Textiles" held in New Delhi

ITTA organised the Conference on "Diversified Applications of Nonwovens in Technical Textiles" jointly with Radeecal Communications held on 17th December 2021 during the 7th NONWOVEN TECH ASIA 2021 scheduled from 17th - 19th December in Pragati Maidan, Delhi, India. Shri. Amit Agarwal, Chairman and Shri. Anil Kumar Vasupillai, AED, ITTA were part of the lamp lighting ceremony of the Nonwoven Tech Asia 2021. ITTA invited four industry leaders on Nonwovens to speak in the Conference.

This conference provided the awareness on the latest product innovations & technology developments and creating a B2B & B2G platform for nonwoven technical textile industry and Networking opportunity.

Smt. Darshana Jardosh, Ministry of State for

Railways and Textiles, Govt. of India, inaugurated the Exhibition and Conference. In her address, she wished all success for the Exhibition & Conference which is aimed to promote the Nonwoven Industry, for our future India. She said in order to promote the textile sector, several schemes were launched by the MOT, mainly PLI Scheme, PM MITRA Scheme, ATUFS and NTTM. She mentioned that she is happy that industry is taking renewed interest in all the schemes. She also said through launching the NTTM, Govt. has given thrust to the high growth Technical Textile sector. There are huge opportunities in Agriculture, Health and Railways etc. for use of these products. With high economic growth, our consumption of these products will improve. Further with new technologies and improved living standards there will be a boost in growth of these sectors and will open new doors for nonwovens and various other technical textiles products. She reiterated that the initiatives of Technical Textile Mission will benefit the industry in improving the technology, their R&D, market penetration and export promotion by participation in events in India and abroad to showcase our products. She assured all help from the Ministry in supporting the industry in these endeavours to attain high growth in exports and domestic manufacturing. She said through coordination, synergy and partnerships, Govt. is keen to promote the technical textile industry, which is the need of hour for our Country's future.

Shri. Amit Agarwal expressed his sincere gratitude to Hon'ble Minister of States for Textiles for giving continued thrust and support to the sunrise Indian Technical Textiles sector in various schemes of the MOT i.e., NTTM, PLI, PM-MITRA and also making India a major Global player in Technical Textiles. On behalf of ITTA, he profusely thanked the Hon'ble Minister of Textiles and Minister of State for Textiles for initiating policy reforms and changes in duty structure which will go a long way in encouraging the growth of TT sector. Some of these initiatives are removal of 'Export ban' of Melt Blown nonwoven Fabric of any GSM, removal of Anti-dumping duty on Glass Fibre & articles thereof exported China, removing Anti-dumping

duty of key raw materials of the TT sector viz. PTA, Acrylic Fibre, PSF, VSF and Caprolactam exported from EU, Korea RP, Russia & Thailand and removal of Inverted Tax on MMF Textile value chain & uniformity of rates. He also requested to address and resolve the following TT industry issues - Expanding HSN Codes in addition to the presently notified 207 HSN codes, EPC formation as sanctioned in the NTTM, Creating appropriate R&D infrastructure through NTTM. Enhancing RoDTEP Rates for all TT products and Including TT Made-ups in the RoSCTL list of Made-ups, which were also represented to MOT by ITTA.

The Following conference topics were covered in detailed during the session on Latest Developments in Nonwoven Technology --

1. Spunbond & Meltblown Nonwoven Technologies by Mr. Debabrata Ghosh, VP & Sales Director, Oerlikon Textile India Pvt. Ltd.
2. Sustainable Nonwovens: Solutions by Truetzschler Nonwovens by Ms. Rupali Chitnis, Project Manager, TEG-Fabric Forming & Nonwovens, ATE Enterprises Pvt. Ltd.
3. Nonwoven Technologies: Role of Supply Chain & its impact by Mr. Viren Mehta, CEO, KP Tech Machine India Pvt. Ltd.
4. Needle Punching Technology by Mr. Yogesh Garg, Managing Director, Dilo India Pvt. Ltd.

EXPORT-IMPORT PERFORMANCE OF TECHNICAL TEXTILE PRODUCTS OF OCTOBER 2021

(*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	Oct 2020	Oct 2021	% Growth	Apr'20-Oct'20	Apr'21-Oct'21	% Growth
1	Agrotech	52	65	25%	351	379	8%
2	Buildtech	75	85	13%	360	475	32%
3	Clothtech	18	31	76%	109	185	70%
4	Geotech	167	208	25%	911	1511	66%
5	Hometech	14	20	35%	91	151	66%
6	Indutech	155	230	49%	939	1391	48%
7	Meditech	119	148	24%	647	774	20%
8	Mobiltech	128	146	15%	698	972	39%
9	Packtech	540	764	42%	2841	4792	69%
10	Protech	60	43	-27%	216	306	42%
11	Sportech	17	27	62%	158	160	1%
12	Nonwovens	155	137	-12%	779	987	27%
	GRAND TOTAL	**1500**	**1904**	**27%**	**8100**	**12083**	**49%**

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

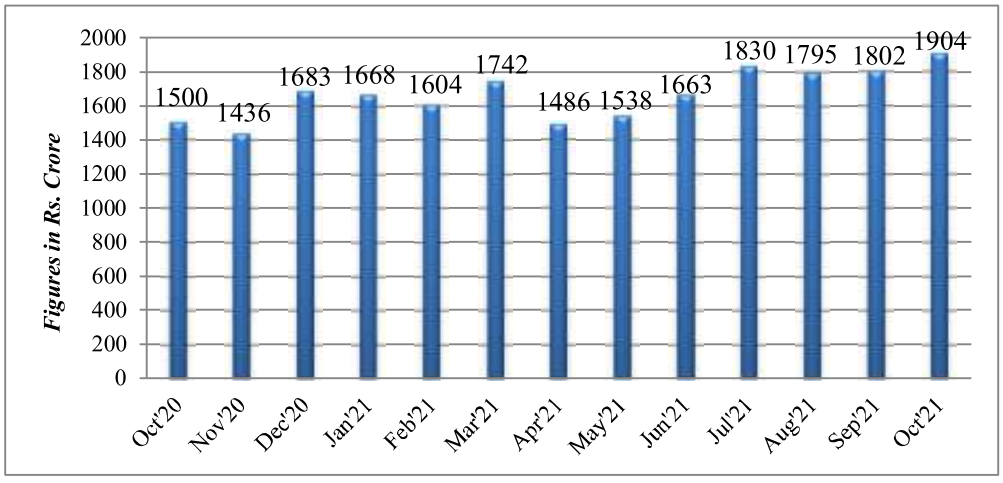
ITTA Analysis on Monthly data (Oct'20 vs. Oct'21) of Top Three Growth Sectors -

a) **Clothtech -** Key Products: Narrow woven fabrics- by weight 5% elastomeric yarn and Knitted or Crocheted fabric - width less than 30 cm.

b) **Sportech -** Key Products: Parachute Fabrics, Tent Fabrics and Sport Nets.

c) **Indutech -** Key Products: Conveyor or Transmission Belts, Woven Textile Felts and Paper Maker's Woven Felt.

Figure 1 - Monthly Trend of Export Performance



The above export figures show decreasing trend from August to September 2021, then it had improved in the month of October 2021.

B. IMPORT PERFORMANCE

(Value in INR Cr.)

Sr. No	Segments	Oct 2020	Oct 2021	% Growth	Apr'20-Oct'20	Apr'21-Oct'21	% Growth
1	Agrotech	28	35	23%	150	257	71%
2	Buildtech	80	165	105%	527	906	72%
3	Clothtech	17	29	76%	78	177	126%
4	Geotech	108	154	42%	591	921	56%
5	Hometech	28	42	51%	210	208	-1%
6	Indutech	201	289	44%	1139	1822	60%
7	Meditech	61	102	68%	298	530	78%
8	Mobiltech	348	612	76%	1796	3603	101%
9	Packtech	43	66	54%	233	357	53%
10	Protech	33	47	41%	221	289	31%
11	Sportech	11	14	35%	57	84	48%
12	Nonwovens	119	182	53%	804	1231	53%
	GRAND TOTAL	**1077**	**1737**	**61%**	**6104**	**10385**	**70%**

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

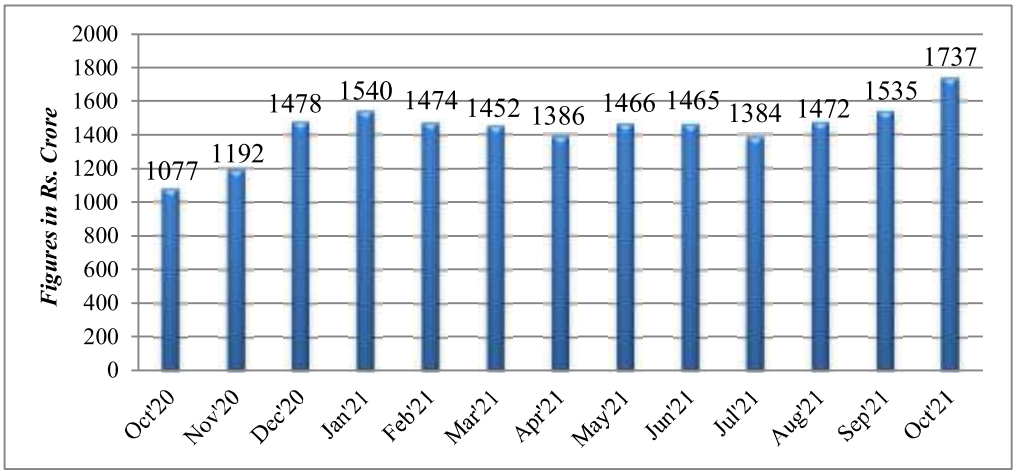
ITTA Analysis on Monthly data (Oct'20 vs. Oct'21) of Top Four Growth Sectors -

a) Buildtech - Key Products: Textile Wall Coverings and Fabrics Laminated & Coated with PVC & PU.

b) Clothtech - Key Products: Nylon Tafetta and Elastic Narrow fabrics.

c) Mobiltech - Key Products: Tyre Cord Fabric of Polyester & Nylon and Nylon Tyre Yarn

Figure 2 - Monthly Trend of Import Performance



India's imports of TT products have registered a dip during the month of July 2021, then it had picked up from August 2021 onwards.

1. ENGAGEMENTS WITH CENTRAL & STATE GOVERNMENTS

1.1. Meeting held between ITTA Officials and Minister of Textiles

The meeting was held on 5th November 2021

between ITTA Officials and Hon'ble Union Minister of Textiles, Commerce & Industry, Consumer Affairs and Food & Public Distribution, Shri. Piyush Goyal in New Delhi. From ITTA, Shri. Amit Agarwal, Chairman, Shri. Avinash Misar, Vice-chairman, Dr. Sundararaman K. S., Immediate past Chairman and Shri. Anil Kumar Vasupillai, Additional Executive Director were present in the meeting.

Addressing representatives of the Indian Technical Textile Association (ITTA), Shri. Piyush Goyal initiated the discussion by stating that India has huge potential for growth in technical textiles. He said Indian should target 5 times increase in export of TT from the present US$ 2 Bn. to US$ 10 bn. in 3 years. He mentioned that PLI scheme need active focus and suggested that, ITTA should take efforts to encourage its members to invest in the scheme. He also mentioned that in the emerging situation of PLI, Central govt. will support those States supporting development and offering affordable infrastructure for textile manufacturing like cheap Land and Power. He further suggested that the growth in TT should be focused on high technology products and indigenously innovated products and for this he said the R&D funds of the Government should follow the route of Public Private participation in use.

Shri. Amit Agarwal profusely thanked Ho Hon'ble Minister of Textile for giving ITTA an opportunity to present our issues & concerns. He then gave a brief about ITTA and mentioned that ITTA is the only organization focused on the holistic development of TT in the country. He said majority of its 330 members belong to the MSMEs and its member's account for 75% of exports. He said that ITTA is involved in sharing knowledge and data and also engaged in imparting skill development and training among its members. He said certain TT segments like Packtech, Indutech and Clothtech are spearheading its growth in India. And with the business approach is more of reactive than proactive, India has huge scope for market augmentation in the upcoming segments like Buildtech, Meditech, Geotech and Non-Woven with

handholding and support from the Government side. He thanked the government for taking various initiatives and giving thrust to the TT sector in all policy announcements viz. RoDTEP, RoSCTL, PLI, PM-MITRA etc. He said ITTA will be able to achieve US$ 20 Bn by 2026, if adequate support is extended as per the requests made to the Ministry of Textiles.

Dr. Sundararaman highlighted the concerns like the need to expand HSN codes of the TT, recognition of the TT Made-ups, inputs parity at global level and the need to give a thrust by Govt. agencies for augmenting domestic consumption of TT products by reviving the inter-ministerial groups and similar initiatives in different departments. He also drawn the attention towards giving thrust to TT Exports.

He suggested for creating a Spotlight fund of Rs 100 crs for Market development & Branding of Indian TT industry in various international forums and specific TT Exhibitions. He said the funds for this could be sourced from NTTM's sub-head of market development & EPC. For a vibrant future of the TT in the domestic front, he also suggested creating demo projects and direct interactive sessions with lakhs of farmers (Agrotech), builders (Buildtech), Protective textiles (Protech) across the country for technology demonstration stalls and training sessions. He said ITTA can coordinate these events and also be one of the agencies for facilitating it. He also made a submission for forming an EPC for TT at this juncture for a cohesive approach for growth among various segments of the TT sector. He said that an EPC with a focused approach could help in significantly contributing to exports growth of the TT products.

1.2. Consultations with the Industry on the National Technical Textiles Mission (NTTM)

Consultations was held with the Industry on how to best utilize the Budget of NTTMC National Technical Textile Mission through Challenge method on 15.12.2021 through video conferencing under the chairmanship of Shri Sanjay Sharan, Joint Secretary, Ministry of Textiles (MOT). From ITTA, Shri. Amit Agarwal, Chairman, Shri. Avinash Misar, Vice-chairman, Dr. Anup Rakshit, ED and Shri. Anil Kumar Vasupillai, AED attended the virtual meeting. In this regard, ITTA submitted a Note on R&D Infrastructure on Technical Textiles and a Report on the List of Testing Facility & Instruments which are not available in Indian Labs were submitted to JS, along with the cost of instruments. JS expressed concerns on the effective use of BIS standards for exports. It was clarified that many standards are adopted from ISO which are very similar to world standard and many countries are accepting BIS standards as well.

ITTA also presented that under R&D scheme, couple of projects were submitted to MoT which were prepared in collaboration with technical textile industry & DRDO, IITs & CSIR Labs. ITTA requested MoT to give update on the status of such projects regularly.

1.3 Pre-Budget meeting for Union Budget 2022-23

The Pre-Budget meeting for Union Budget 2022-23 was held under the chairpersonship of Shri. Vivek Johri, Member Tax Policy (CBIC), Department of Revenue, Ministry of Finance, Government of India on 23.11.2021 in New Delhi with trade and industry associations to discuss suggestions/ recommendations in respect of tax issues pertaining to different sectors. From ITTA, Mr. Anil Kumar Vasupillai, AED, ITTA attended the meeting.

In this regard, ITTA had submitted the following suggestions during the meeting and recommended the same for incorporating in the Budget 2022-23 –

1. Lower Basic Custom Duty for the specialty fibres and yarns which will give an impetus to value addition, strengthen domestic manufacturing and exports.

2. Anti-dumping duty of many raw materials used for making TT like Caprolactum, Glass fibres etc. are to be revoked so that these raw materials can be availed at competitive global market prices, which is a huge advantage for manufacturers while competing globally.

3. Glass fibre is charged @ 10 % duty while the fabrics allowed @ 5% duty. This inverted duty issue to be resolve, and this sector has huge scope for local growth and value addition.

1.4 Meeting of Working Group for Development of Technical Regulations for Man Made Fibre Textiles

The 1st meeting of Working Group for Development of Technical Regulations for Man Made Fibre was held on 24.11.2021 through virtual mode under the Chairmanship of Shri. Ajit B. Chavan, Secretary, Textiles Committee and Chairman, Working Group. Dr. Anup Rakshit, ED, ITTA attended the meeting as the member of the committee. Salient features of Standards developed by Bureau of Indian Standards (BIS) on Man Made Fibre Textiles & Apparels for issuing Quality Control Order (QCO) as referred by the Ministry of Textiles, Government of India followed by the discussion pertaining to Viscose Staple Fibre products viz IS 17266: 2019 - Textiles-Viscose Staple Fibres-Specification were discussed in detailed and the working group accepted it.

2. REPRESENTATIONS TO GOVT. ON MEMBERS' ISSUES

2.1 Govt accepted ITTA's Representation & Notified not to impose Anti-dumping duty on Caprolactum

Even after favorable recommendation of Director General of Tarde Remedies (DGTR) in Mar-20 for levy of Anti-dumping duty (ADD) on import of Caprolactam from Korea, Russia, Europe, and Thailand. If levied, the ADD will have severe impact on the downstream units. Caprolactam is the basic raw material for Nylon manufacturing and comes in extreme left of Nylon value chain. When ADD is denied in value added products i.e., NFY and NTCF, Levying ADD on Caprolactam will make domestic NFY and NTCF uncompetitive against imports. Many of the ITTA members approached ITTA to represent the issues and concerns on this matter.

Accordingly, ITTA made a representation to Department of Commerce, Ministry of Commerce and Industry (MoC&I) recommending levy of Anti-dumping duty on import of Caprolactum from Korea, Russia, Europe and Thailand. Levying ADD on Caprolactam will impact competitiveness of our Fabric and Garment, Tyres and Fishnet Industry which may lead to higher cost and higher import of value-added products defeating "Make in India" initiatives. Finally, Govt. notified that there will no Anti-dumping duty on Caprolactum vide Office Memorandum dated 8th December 2021.

2.2 Govt accepted ITTA's Representation & Notified not to impose anti-dumping duty on Glass fibre from China & same issues from Bahrain and Egypt are under review

Since many of the ITTA members who are importers or users of glass fibre and related products which has huge potential for use in the production of wind grade fabrics for wind mill blade and other downstream units. In this regard, ITTA members who are users or importers of Glass fibre approached ITTA to represent the issues and concerns on this matter.

a) Govt accepted ITTA's Representation & Notified not to impose anti-dumping duty on Glass fibre from China, vide Office Memorandum dated 28th October 2021.

b) Similar cases on imposing anti-dumping duty on glass fibre from Bahrain and Egypt are under review by the Ministry of Finance (MoF) to consider the larger public interest and not to impose the anti-dumping duties as recommended by DGTR against imports of 'Glass and Articles thereof' from Bahrain and Egypt which will be a game changer for the large number of downstream value-added units and the emerging ones in the wake of the concerns of climate change issues and also with the continued thrust by the Govt. giving to the technical textiles sector.

3. EVENTS ORGANISED/ SUPPORTED BY ITTA

3.1. Techtextil India 2021 held in Mumbai

The Hybrid Edition of Techtextil India 2021 was held on 25th - 27th November 2021 at Bombay Exhibition Centre, Goregaon, Mumbai along with Techtextil India Symposium 2021 held on 26th November 2021 on Virtual Platform. The event was organized by the Messe Frankfurt Trade Fairs India Pvt. Ltd. The event was supported by Indian Technical Textile Association (ITTA). Shri. Amit Agarwal, Chairman, Shri. Avinash Misar, Vice-chairman and Dr. Anup Rakshit, Executive Director of ITTA were part of the lamp lighting ceremony.

The dual format of the event allowed the visitors to access easy sourcing and networking opportunities with leading international and domestic brands, evaluate new business prospects and even attend live fringe programs that can be beneficial to their line of work.

The Techtextil India Symposium had a Panel Discussion on the Topic - "Foreign Direct Investment Opportunities and Policies". The panel discussion was moderated by Mr. Ayush Pagaria, Assistant Manager, Invest India. The panelist were Mr. Nihar Ranjan Dash, Joint Secretary Technical Textiles & Innovation, Ministry of Textiles, Ms. Mishika Nayyar, Assistant Manager (Textile sector team), Invest India and Mr. Amit Agarwal, Chairman, ITTA.

During the digital symposium, Session on "PLI & New Investment Opportunities in Technical Textiles sector" was organized by ITTA. Two papers were presented during the session, Mr, Prashant Raizada, Associate Partner - Indirect Tax Services, Ernst & Young LLP (EY) on "Investment opportunities in PLI Scheme notified for Technical Textiles sector" and Dr. Anup Rakshit, Executive Director, ITTA on Focused Technical Textile Products under PLI Scheme.

Mr. Prashant Raizada highlighted the overview of technical textile industry wherein domestic demand of TT is expected to grow at CAGR 12% over the next years. He explained about the PLI Scheme for Technical Textiles, Investment and Incremental Turnover Requirements, Incentives offered under the Scheme, Timelines for application under the Scheme, Sample examples of benefits available under the Scheme in different scenarios and Discussion on notification & draft operational guidelines, Pre-Qualification Criterion and Rating Criterion under the Scheme. Dr. Anup Rakshit explained in detailed about the Focused Technical Textile Products under PLI Scheme with HS Codes given in the Draft Guidelines for PLI Scheme such as Geotextiles, Agrotextiles, Medical & Hygiene Textiles, Protective Textiles, Automotive Textiles, Sports Textiles, Construction Textiles, Speciality Fibres, Composites and Smart Textiles.

ITTA had also participated in the Techtextil India 2021. Number of delegates visited the stall, enquired about activities of ITTA, future technical textile courses, conference & exhibition and showed interest to become a member.

MASTURLAL PVT. LTD.

Completed 50 Years on 17th November 2021

Shri Masturlal Chunilal Mehta founded a business in 1936, 85 years ago, for supplying mill stores to the burgeoning number of textile mills in the city of Ahmedabad, under the eponymous title of "MASTURLAL CHUNILAL & COMPANY". To expand their geographic footprint, Masturlal Chunilal & Company established an office in Bombay in 1947, followed by Bangalore in 1967, & in Calcutta in 1979.

In 1962, they started The Suryodaya Textile Factory, to produce cordage & narrow fabrics. Masturlal Chunilal & Company became the sole Indian agents for many reputed companies abroad, mainly in the area of diverse technical textiles.

In 1971, they diversify business activities into flexible packaging resulted in the incorporation of this company as "Masturlal Packaging Private Limited" on 17th November 1971, 50 years ago!!! In keeping with present business activities, the "Packaging" from the company name was dropped, & they became "Masturlal Private Limited".

Very soon, in 1983, they expanded into woven technical textiles. In a few quick years, rapid expansion resulted in quick installation of manufacturing facilities of woven fabrics from 2mm until 2000 mm wide braiding & cordage with diameters from 3mm until 25mm, sewing of filter bags, absolute air filtration products, industrial safety clothing etc. Foreign principals & associates included Geschmay, Wangner, Stowe Woodward from Germany, Goyen Controls from Australia, Lydall, National Filter Media & ML Gatewood from the USA, ITJ from Scandinavia etc.

First, one needle loom was imported in 1999, with more & more needling capacity being added over subsequent years, until presently, five needle looms turn out well over 35,000 Kgs of needle felt every month, almost all of which is used in-house, to be sewn into filter bags. A wide range of non-filtration felts were also successfully developed. Almost 1/3rd of our production is presently exported to customers in over 30 countries.

PASHUPATI POLYTEX PVT. LTD.

Received Iconic Achievers Award for contribution in field of Sustainable Recycling Alternatives

WBR Corp, has organized the 5th Edition of their Signature event named "Iconic Achievers' Award". This is organized every year to recognize the topmost Iconic personalities and institutions for their contribution to their respective sectors, social work and COVID relief efforts last year. The magnificent Iconic Achievers Award Ceremony was organized on September 26th, 2021 at Novotel hotel in Juhu, Mumbai.

Pashupati Polytex Pvt. Ltd, has been honored at the Iconic Achievers Awards this year for its contribution in the field of PET Recycling.

Talking about the same Shri. Bankey Bihari Goenka -

The Managing Director of the group said: Our efforts have always been and will be to offer all types of fibres from the polyester segment as per industry requirement. Our company honored to be recognized for its's contribution to "Sustainable Recycling Alternative" at Iconic Achievers Award.

Every effort that we make to protect this wonderful universe is an experience and an experiment. It is very heartening when that is acknowledged and applauded. I'm grateful to the jury the audience and the organizers who have appreciated us in the little contribution that we are making in converting the waste into product that adds value to people's life.

"We feel honored and happy to receive this award.

CIRCULARS TO MEMBERS

Please note that the list circulars given below were emailed to all ITTA members during the last 2 months, but to get them in one place we have started publishing this list in each E-Bulletin.

A. STATE & CENTRAL GOVT. CIRCULARS

1. Notification on Amendment in Export Policy of Melt Blown Fabric by Directorate General of Foreign Trade (DGFT), Ministry of Commerce & Industry (MoC&I), dated 14.10.2021. (http://ittaindia.org/?q=node/2049)

2. Notification on setting up 7 Mega Integrated Textile Region and Apparel by Ministry of Textiles (MOT), dated 20.10.2021. (http://ittaindia.org/?q=node/2053)

3. Minutes of the 24th meeting of TAMC under ATUFS held on 20th October 2021 by Office of the Textile Commissioner (OTXC), dated 26.10.2021. (http://ittaindia.org/?q=node/2055)

B. ITTA CIRCULARS TO MEMBERS

1. URGENT- GeM Training Sessions for Buyers on New Features, Today 18th Oct. 2021- 3 PM to 5 PM, Cir. No. 35/2021-22 dated 18.10.2021. (http://ittaindia.org/?q=node/2051)

2. MOT seeks comments/ inputs/ observations on the Draft Guidelines for Production Linked Incentive (PLI) Scheme for Textiles, Cir. No. 36/2021-22 dated 19.10.2021. (http://ittaindia.org/?q=node/2052)

3. Announcement of ITTA's Certificate Course on Geosynthetics scheduled from 06th - 10th December 2021, Cir. No. 39/2021-22 dated 11.11.2021. (http://ittaindia.org/?q=node/2057)

4. Inputs to capture the details of the Burdensome Compliance applicable to various sectors of the Industry, Cir. No. 40/2021-22 dated 30.11.2021. (http://ittaindia.org/?q=node/2059)

5. Export-Import Performance of Technical Textiles Products of September 2021, Cir. No. 41/2021-22 dated 06.12.2021. (http://ittaindia.org/?q=node/2060)

6. Export-Import Performance of Technical Textiles Products of October 2021, Cir. No. 42/2021-22 dated 21.12.2021. (http://ittaindia.org/?q=node/2062)

Govt approves continuation of Scheme for Investment Promotion for 5 years

The government has approved the continuation of the Scheme for Investment Promotion (SIP) for five years (2021-26) with a financial outlay of Rs 970 crore, according to a notification of the commerce and industry ministry. The scheme comprises a number of components and activities for the promotion of investment into the country; enhancing international co-operation for promoting FDI and capacity building.

To increase the investment inflow, the Department for Promotion of Industry and Internal Trade (DPIIT) has been undertaking various initiatives and reforms such as the launching of Make in India, setting up of project development cells, creating a GIS-based Industrial Information System and National Investment Clearance Cell. These activities are being supported under the Scheme for Investment Promotion, which was launched on November 11, 2008. The last implementation period of the scheme was from 2017-18 to 2019-20.

It said that to sustain and take the momentum forward, it is important to continue with the activities under this scheme in a more focused and targeted manner. "Given this, continuation of the Scheme for Investment Promotion from 2021-22 to 2025-26 has been approved" with certain components including investor targeting and facilitation; project management activities; and foreign travel, the notification has said.

Activities proposed under investor facilitation include organising CEO Forums; financial investors initiatives for attracting institutional investors; support to Indian missions abroad for market entry support programmes; Investment Clearance Cell (National Single Window System); and monitoring of FDI activities, it added.

[Source - https://www.business-standard.com/article/economy-policy/govt-approves-continuation-of-scheme-for-investment-promotion-for-5-years-121113001634_1.html]

Solutions for Construction of Landfills at Fatehwadi Village in Ahmedabad

Worldwide, the disposal of waste materials is an increasing problem which demands greater landfill capacity. It is important to recognize that a landfill is not just a 'dump' for waste, but a living organism, bringing constantly changing engineering challenges. Construction of landfills is an important activity to ensure proper disposal of waste materials.

Use of geogrids to reinforce soil, enables the steepening of slopes within landfill cells, maximizing the volumes available for waste disposal. MacLine® impermeable liners contain, cap and protect pollution from contained waste material and MacMat® limits erosion from the slopes of these installations. MacDrain® drainage geomposites drain fluids (liquids or gases) from landfills.

A major concern in the city of Ahmedabad, Gujarat was the increasing problem of waste disposal management due to an increasing population and urbanization. The Ahmedabad Urban Development Authority decided to solve this problem by identifying a landfill site at Fatehwadi Village in Ahmedabad, Gujarat. A landfill of capacity 1,75,000 cum with height of 8m was developed to address the concern.

Maccaferri's solution comprised of 25,000 Sqm of HDPE Geomembrane (1.5 mm thick) that was installed at site as base, side and top liners. The liner system prevents migration of leachate to surrounding soil and enhances surface drainage, prevents infiltration of water and supports vegetation.

[Source-https://www.maccaferri.com/in/solutions-construction-landfills-fatehwadi-village-ahmedabad/]

Welspun to Install Spunlace Line

Welspun Advanced Materials, India, has ordered a complete neXline spunlace line from international technology group Andritz for the production of nonwoven roll goods and wipes for its new plant in Hyderabad, Telangana. The line has a capacity of up to three tons per hour. The new, advanced facility is a 100,000 sqm greenfield development that is part of a larger 1,500,000 sqm industrial complex also accommodating the Welspun floorings facility.

The Andritz high-capacity spunlace line will process various types of synthetic or natural fibers, such as polyester, viscose and cotton. The final products will have fabric weights ranging from 25 to 120 gsm, thus covering many applications. This neXline spunlace line also offers the option to integrate a third component from a selection of smart layers, enabling Welspun to also manufacture products for the health care and hygiene sectors.

Cherian Thomas, CEO of Welspun Advanced Textiles, says: "We believe that the global demand for disposable products will show solid growth as economies and consumers become more hygiene- and environment-conscious. Our choice of Andritz as our partner matches our shared view, which has a bias towards sustainable technologies. Andritz's neXline spunlace can provide savings on energy and water with the technology delivered. Welspun focuses on sustainability, and our site itself is being developed in compliance with the 'Indian Green Building Certification.'"

[Source - https://www.nonwovens-industry.com/contents/view_breaking-news/2021-11-09/welspun-to-install-andritz-spunlace-line/]

DRDO hands over Technology of Extreme Cold Weather Clothing System ECWCS to Five Indian Companies

Secretary, Department of Defence R&D and Chairman Defence Research and Development Organisation (DRDO) Dr G Satheesh Reddy handed over technology for indigenous extreme cold weather clothing system (ECWS) to 05 Indian companies in New Delhi on December 27, 2021.

The extreme ECWS is required by Indian Army for its sustained operations in glacier and Himalayan peaks. The Army, till recently has been importing extreme cold weather clothing and several Special Clothing and Mountaineering Equipment (SCME) items for the troops deployed in high altitude regions.

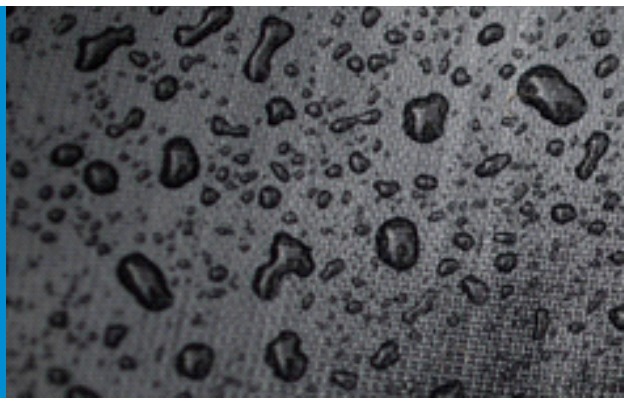
The DRDO designed ECWCS is an ergonomically designed modular technical clothing with improved thermal insulation and physiological comfort based on the insulation required at various ambient climatic conditions in Himalayan regions during different levels of physical activity. The ECWCS embodies physiological concepts related to reduction in respiratory heat and water loss, unhindered range of motions and rapid absorption of sweat while providing water proof, wind proof features with adequate breathability and enhanced insulation as well as strength features required for high altitude operations. The three layered ECWCS is designed to suitably provide thermal insulation over a temperature range of +15 to -50° Celsius with different combinations of the layers and intensity of physical work.

Considering the widely fluctuating weather conditions in the Himalayan peaks, the clothing provides an advantage of fewer combinations to meet the required insulation or IREQ for the prevailing climatic conditions, thereby providing a viable import alternative for the Indian Army. Speaking on the occasion, Dr G Satheesh Reddy emphasised on the need for developing indigenous industrial base for SCME items, not only to cater to the existing requirements of the Army but also to tap its potential for export.

[Source - https://pib.gov.in/PressReleasePage.aspx?PRID=1785810]

COMPOSITES - Soft Composite Materials

Lightest and Strongest Soft Composite Materials



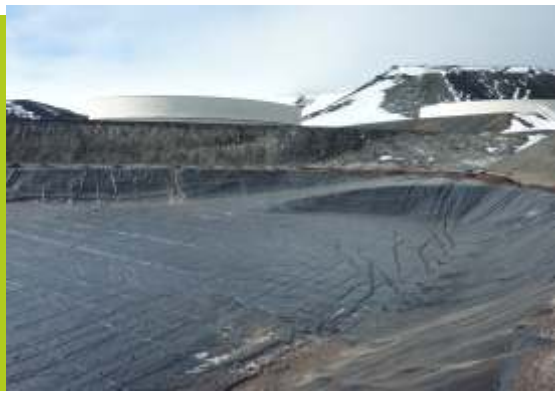
Canada based Aluula Composites, a developer of ultra-lightweight composite materials, has launched an entirely new class of lightweight soft composites. According to the company, the composites are made using a patented proprietary technique for fusing disparate materials such as fibers and films at the molecular level. This can remove the need for heavy glues while creating much stronger bonds between the laminated layers, Aluula said. The process also reportedly allows the use of input materials that were previously difficult to bond.

The weight of an Aluula composite material can be as much as 50% lighter than competitive materials while still delivering equal or greater strength characteristics, the company claims. The new materials include the Aluula Vaepor series, which received the ISPO Textrends Best Soft Product Award for 2021/22 and reportedly has the world's highest strength to weight characteristics while remaining durable.

[Source - https://www.technicaltextile.net/news/canada-s-aluula-launches-new-class-of-lightweight-soft-composites-277791.html]

GEOSYNTHETICS - FR Geomembrane

New fire-retardant flexible geomembrane



Seaman Corp. of Wooster, Ohio, has released a new fire-retardant geomembrane, XR-FR, in its XR Geomembranes product line. The XR-FR product is appropriate for use in secondary containment of aboveground flammable and combustible liquid tanks. It meets the requirements of ULC S668, the Canadian "Standard for Liners Used for Secondary Containment of Aboveground Flammable and Combustible Liquid Tanks." Class IA secondary containment liners

are suitable for use with flammable liquids, flammable liquids containing ethanol or methanol, combustible liquids, and combustible liquids containing up to 5% biodiesel (B5).

When selecting a geomembrane liner, puncture strength, abrasion resistance, flexibility and toughness are important properties to consider. The flexibility of XR-FR allows for improved liner integrity and significantly reduces the number of field seams. The broad range of chemical resistance and physical properties rivals the competition for superior protection against UV and puncture.

There are three grades of XR Geomembranes for containment: XR-5 for broad chemical resistant applications requiring high-strength geomembranes, XR-3 for moderate chemically resistant requirements, XR-PW for potable water contact products and XR-FR for installations requiring extra fire protection.

[Source - https://phys.org/news/2021-11-smart-textiles-high-breathable-fabric.html]

MEDITECH - Baby Diaper Absorption Technology, Improved Flushable Wipes & Surgical Grade Facemask

Baby Diaper Absorption Technology Climaflex®

Ontex Group presented its new technology Climaflex®. Climaflex is the next generation baby diaper core technology developed by Ontex engineers and Ontex's R&D team in Germany. Climaflex ensures comfort, keeps the baby's skin protected and ensures absorption even under the toughest conditions, with extensive baby motion. The Climaflex technology is first launched under Ontex's Little Big Change brand in six European countries (Austria, Belgium, France, Germany, Luxembourg, The Netherlands).

Key features of Climaflex technology --

- **Ultimate skin protection and breathability -** Babies tend to sweat more than adults, but their skin is much thinner. This makes baby skin prone to rashes and irritations. The Climaflex technology enables heat to transfer across the full surface of the diaper which ensures breathability and heat regulation, keeping the baby's skin dry and fresh.

- **Strong liquid lock thanks to unique dual core design -** Diapers with the Climaflex technology have a dual-layer core in which one layer quickly attracts liquid and a second layer locks it in a very fast way and securely even in the toughest conditions, when the baby moves a lot.

- **New gender-neutral channel technology -** The diaper channel has been designed to deal with those areas where liquid absorption and distribution is most needed, for both baby boys and baby girls. From the central pee points onwards, liquid can quickly access, and is distributed through the branches of the channeled core which offers instant and long-lasting dryness.

- **Exceptional freedom of movement -** When learning to walk, run and play, freedom of movement is essential. Diapers with the Climaflex technology have a lighter core and smart bending lines which offers a secure and comfortable fit even when saturated.

[Source - https://ontex.com/news/brands/ontex-keeps-innovating-with-baby-diaper-absorption-technology-climaflex/]

Nice 'N Clean SecureFLUSH technology flushable wipes

Nice-Pak Products based in US has unveiled its new Nice 'N CLEAN SecureFLUSH Technology Flushable Wipes, a breakthrough flushable wet wipe that is strong and durable yet breaks apart five times faster than the leading brand of two-ply toilet paper.

The SecureFLUSH technology results in a unique, 100% cellulose nonwoven wipe that is strong enough to clean, yet break apart rapidly, when flushed. With Nice 'N Clean SecureFLUSH technology flushable wipes, consumers can achieve a fresher clean and ensure responsible care for their plumbing, septic and sewage systems. Nice 'N Clean SecureFLUSH technology flushable wipes contain naturally derived ingredients and are made from 100% biodegradable plant-based fibres.

[Source - *https://www.nonwovens-industry.com/contents/view_breaking-news/2021-11-30/nice-pak-unveils-improved-flushable-wipe/*]

Compostable Surgical Grade Face Mask

Ezzigroup, a PPE manufacturer and distributor based in Toronto, has developed the first ever compostable surgical grade face mask manufactured in Canada. The mask is ASTM F-2100 certified, Health Canada approved.

Their Compostable face masks are ASTM F-2100 certified for surgical and medical use with an over 99% + filtration ability. The substrate and nonwoven materials used by Ezzigroup are made with PLA or cotton and soft wood pulp, which makes them compostable. These compostable masks will not have the adverse effect on our environment when compared to existing synthetic masks made of microplastics and will compost in less than 90 days under the soil, improving the soil quality of any landfill.

PROTECH - Warmest Jacket

Jacket with Highest Thermal Rating launched

LifeLabs, a California-based textile innovator specialising in producing thermally-efficient textiles, has announced the launch of a breakthrough product, MegaWarm, the world's warmest jacket.

The MegaWarm jacket is powered by LifeLabs' proprietary WarmLife technology, a new textile that reflects 100% of a human's radiant heat back to their body. Using a nano-layer of aluminium

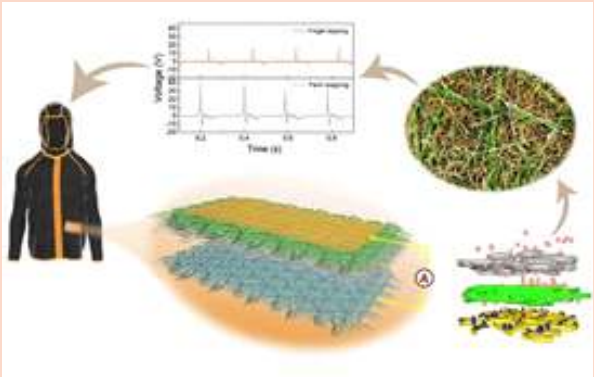
(about one paper clip's worth), the jacket achieves the highest CLO rating in the world at 9.25. This performance, combined with a minimalist style, helps to create a lighter, more packable, and more sustainable jacket, the company said in a media statement.

With a score of 9.25 CLO, MegaWarm is proven to deliver 38% more warmth than a Canada Goose Snow Mantra (6.70 CLO), 53% more warmth than The North Face's Summit AMK L6 Parka (6.06 CLO), and 17% more warmth than Arc'teryx Leaf Cold WX Parka SVX (7.91 CLO). MegaWarm also provides the most warmth with less weight (55% lighter than Canada Goose Snow Mantra) and less bulk (38% thinner than Arc'teryx Leaf Cold WX Parka SVX). LifeLabs' high-performing garments are made with less materials and fewer resources to reduce environmental impact by 25%. The brand's sustainable manufacturing practices coupled with more efficient heating technology enable consumers to use less energy and therefore significantly reduce their carbon footprint.

[Source - https://www.prnewswire.com/news-releases/lifelabs-introduces-revolutionary-breakthrough-in-outerwear-worlds-warmest-jacket-301434800.html]

SMART TEXTILES - Breathable Fabric

High performance, breathable fabric to power small electronics



Scientists from the University of Fukui in Japan and China's Nanjing University have created a new triboelectric fabric that generates electricity from the movement of the body while remaining flexible and breathable. Triboelectric effect is a phenomenon where a charge is generated on two dissimilar materials when the materials are moved apart after being in contact with each other. TENGs use this effect to convert mechanical motion into electrical energy. The compactness of TENGs allows them to be used as wearable devices that can harness the motion of the body to power electronics.

The team of researchers has developed a multilayered TENG made from electrospun fibres, silver nanowires and a polystyrene charge storage layer that not only has a high electrical performance, but also has superior wearability. Being wearables, the emphasis is placed on the fabric properties and the charge-carrying capacity of the nanogenerators. Generally, the triboelectric materials chosen for the nanogenerator should be safe, compatible with the human body (biocompatible), flexible and breathable while being able to maintain a high electrical output performance.

Among the many materials considered for TENGs, electrospun fibres are a promising candidate as they are lightweight, strong and have desirable electrical properties. Electrospinning is a technique by which

solutions of polymers are drawn into fibers using electrical charge. The team of researchers reported developing the all-fibrous composite layer TENG (AF-TENG) that can easily be integrated with normal cloth.

The AF-TENG contains a triboelectric membrane made of two layers of electrospun fibres - one of a material called polyvinylidene fluoride (PVDF) and the other of a type of nylon. Silver nanowires cover these layers. The researchers further added a layer of electrospun polystyrene fibers between the silver nanowires and the triboelectric membrane. The mechanical motion of the body while walking or running causes the triboelectric layers to gain a charge. This way, the mechanical energy is converted into electrical energy, which can be used to power electronic devices. Normally, the charge buildup on the triboelectric surface is gradually lost or dissipated, reducing the surface charge density and the output performance of the nanogenerator. However, in this case, the added polystyrene membrane collects and traps the charge, retaining the surface charge density of the AF-TENG.

While TENGs are currently limited to power low-powered devices such as LEDs and calculators, improvements to the wearability and output performance are integral steps towards future wearable technology.

[Source - https://phys.org/news/2021-11-smart-textiles-high-breathable-fabric.html]

TESTING - Hydrostatic Head Tester

Next Generation of HydroPro Hydrostatic Head Tester

SDL Atlas is introducing a redesign to the HydroPro Hydrostatic Head Tester. The HydroPro tests the water resistance to fabrics, determining the waterproof properties of fabrics such as canvas, coated fabrics, hood fabric, tarpaulin, rain-proof fabrics and geotextiles. This redesign ensures that the powerful and efficient HydroPro is the best value Hydrostatic Head Tester available.

New features of the HydroPro include:

a) Video recording and image capture show real time pressure for review after testing via computer software.

b) Testing pressure up to 5 bar

c) New pneumatic sample clamping to avoid slippage and leakage

d) The Fast Test function allows users to rapidly determine a failure point and perform other tasks during 80% of the standard test time. An alarm indicates fail pressure is close.

e) Automatic water filling and water level detecting

f) Full color touch screen controller with preloaded routines for popular standards and custom programs

g) Connects via Wi-Fi to our exclusive Remote Access App which alerts the operator when the test is 80% complete

h) Capable of Pore Size test with optional fixture for BS 3321

i) Capable of Blood Penetration Test with optional fixture for ASTM F1670, BS ISO 13994 and ISO 16603

j) LED lighting of sample area

k) Clear safety shield

[Source - https://sdlatlas.com/news/sdl-atlas-introduces-the-next-generation-of-hydropro-hydrostatic-head-tester]

NEW MEMBERS

ASSOCIATES NONWOVEN, DELHI

Associates Nonwovens are the manufacturers of nonwoven fabrics. Their range of products are Weed Control and Crop Cover fabrics-350 ton, Interlining-225 ton, Geobag fabrics-400 ton, Carpet fabrics, Nonwoven wipes & Filter fabrics-300 ton, Diapers & Surgical disposables-150 ton, Car upholstery & Airline disposables-225 ton, Nonwoven carry bags-900 ton, Flame retardant fabrics-150 ton and Shoe components & Artificial Turf-125 ton (FY 2019-20). Their products are fit for usage in finished goods and merchandise in diverse sectors including medicine, garment, packaging, agricultural and construction industry. They have ISO: 9001 certified managerial practices. They have PP Spunbond Production line, Needle punch Production line, Plastic Lawn Matt production line, Nonwoven bag m/c and Chemical bond nonwoven line.

PRAGATI ENTERPRISES, MAHARASHTRA

Pragati Enterprises are the raw material manufacturer and their product range includes PP multifilament yarn-40 MT, cabled yarn of Polyester-130 MT, twisted yarn of Polyester-80 MT and PP cabled yarn-35 MT. Having machineries such as twisting m/c, doubling m/c, TFO m/c, precision cone winder m/c, etc.

TESCA TEXTILES & SEAT COMPONENTS (INDIA) PVT. LTD., MAHARASHTRA

Tesca Textiles & Seat Components India are into the manufacturing of different sort woven and knitted fabrics along with the post processing such as foam lamination, embossing etc. They manufacture laminated fabrics-36 lakh mtr/year. End use of these fabrics are into car seat upholstery, car door trims, bus seat upholstery, truck seat upholstery etc.

JUSHI INDIA FIBERGLASS PVT. LTD., MAHARASHTRA

Jushi India Fiberglass, subsidiary of China Jushi Group started in December 2017. Jushi produces E-glass, E6, E7 & E8 glass, fiberglass products and the most complete range of reinforcement fiberglass products including rovings, chopped strands, stitched combo mats and chopped strand mats, powder and emulsion chopped strand mats, woven rovings and electrical yarn. Its testing center has been certified by China National Accreditation Board for Laboratories (CNAS). The principal products of Jushi Group have been approved by DET NORSKE VERITAS (DNV), Lloyd's Register, Germanischer Lloyd (GL) and American FDA.

SHRINATH ADHESIVE PRODUCT PVT. LTD., GUJARAT

Shrinath Adhesive Products manufacture many kinds of technical textiles, having experience of more than 45 years in the field of weaving different types of Industrial fabrics with fiberglass. Currently Shrinath holds the expertise in several types of products like PTFE Coated Fiberglass Fabrics, PTFE Coated Fiberglass Adhesive Tape, PTFE Coated Fiberglass Conveyor Belts, Fiberglass Filter Media for Dust Collection Bags for Air Filtration, Technical Fabric for thermal & Acoustic Insulation and Woven Fiberglass & Carbon Fabrics for Composites. They have machineries such as rapier weaving m/c, warping m/c, vertical coating m/c, horizontal coating m/c, texturizing m/c, etc.

G R ENTERPRISE, MAHARASHTRA

G R Enterprises is having experience of 35 years in yarn trade, mainly Polyester Texturise yarn, High Tenacity Polyester yarn and High Tenacity Nylon yarn which have end products like Parachute Fabric, Safety Belt, Slings, Tarpaulins, and Awnings etc. and many more.

KLEIBERIT ADHESIVES INDIA PVT. LTD., KARNATAKA

KLEIBERIT Adhesives India is a 100% owned subsidiary of KLEBCHEMIE M. G. Becker GmbH & Co. KG was established in 2021. They manufactures the KLEIBERIT Pur Hotmelt Adhesives to produce modern high performance materials from textile substrate. The applications where this adhesive are used like automotive industry- fabrics for headliners, door panels seating hand rests, hygiene and medical- surgical gowns, surgical drapes, protective mattress covers, home textiles- upholstery, awnings. They have large R&D department for product and process development and provide technical advise on lamination and testing.

CPIC ABAHSAIN FIBERGLASS W.L.L., BAHRAIN

CPIC AFG is a leading producer of Glass fiber with a large manufacturing facility located in Bahrain. They service customers located across the globe and are focused on serving clients in the America, Europe, India and the Middle East.

MANJUSHREE SPNTEK PVT. LTD., KARNATAKA

Manjushree Spntek is an integrated Roll goods manufacturer of Spunmelt Nonwoven fabric made from their State-of-the-Art German Technology from Reifenhauser Reicofil GMBH & Co., Germany. Its applications are medical drapes, gowns, sterile wraps and masks, Hygiene - diapers & sanitary napkins as well as in agrotextiles and industrial products. Depending on the applications, the fabric gets into their State-of-the-Art Treatments and Lamination for High-value advanced technical textile fabrics and products and have Spunmelt Technology.

KUMARAGURU COLLEGE OF TECHNOLOGY, TAMILNADU

Kumaraguru College of Technology (KCT) is a private Engineering College started in 1984. KCT is an autonomous institution affiliated to the Anna University, Chennai and approved by All India Council for Technical Education (AICTE). KCT has been accredited by National Assessment and Accreditation Council (NAAC) with Grade 'A' and all the eligible UG programs have also been accredited by National Board of Accreditation (NBA).

ITTA SIGNED MOU WITH TAIWAN TECHNICAL TEXTILE ASSOCIATION (TTTA)

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

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

ADVERTISEMENT TARIFF FOR ITTA E-BULLETIN

For an ITTA Members, please tick (✓) against one of the following:

	One Issue	Three Issues	Six Issues
Full page	Rs. 10000* ☐	Rs. 25000* ☐	Rs. 45000* ☐
Half page	Rs. 6000* ☐	Rs. 16000* ☐	Rs. 30000* ☐

For a Non-Member of ITTA, please tick (✓) against one of the following:

	One Issue	Three Issues	Six Issues
Full page	Rs. 12500* ☐	Rs. 31250* ☐	Rs. 56250* ☐
Half page	Rs. 7500* ☐	Rs. 20000* ☐	Rs. 37500* ☐

***GST as applicable**

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MATERIAL FORMAT: CorelDraw/ High Resolution PDF/ 300 dpi JPEG

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II) Payment can also be made directly into bank Account -
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Bank Name: Bank of Baroda, Ghatkopar (W) Branch, Mumbai -400086.
Current Account No: 04220200000491
IFSC Code – BARB0GHATKO

Mode of sending advt. material:

Name of the Company:……..

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Name of Contact Person:…….Designation…….

Mobile Number:……Email:……...

INDIAN TECHNICAL TEXTILE ASSOCIATION
For more information contact : 314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059.
Mob: (O) +91 9769464616 Email : officeed@ittaindia.org

UPCOMING EVENTS

NOVEMBER 2021

IFAI EXPO
1-4 November 2021, Tennessee, USA
Web: http://ifaiexpo.com

HYGIENIX
15-18 November 2021, Arizona, USA
Web: https://www.hygienix.org

OSH INDIA 2021
25-26 November 2021, Mumbai, India
Web: https://www.oshindia.com/mumbai/

TECHTEXTIL INDIA
25-27 November 2021, Mumbai, India
Web: https://techtextil-india.in.messefrankfurt.com/

DECEMBER 2021

NON-WOVEN TECH ASIA 2021 ITME 2022 (7th International Exhibition & Conference)
17, 18 & 19 December 2021, Pragati Maidan, Delhi
Web: https://www.nonwoventechasia.com/

JANUARY 2022

HEIMTEXTIL
11-14 January 2022, Frankfurt, Germany
Web: https://heimtextil.messefrankfurt.com/frankfurt/en.html

MARCH 2022

SMART FABRICS SUMMIT
28-29 March 2022, North Carolina, USA
Web: https://ifaiexpo.com/

IDEA 2022
28-31 March 2022, Florida, USA
Web: https://www.ideashow.org/

COMPOSITE-EXPO
29-31 March 2022, Moscow, Russia
Web: http://www.composite-expo.com/

FiltXPO™ 2022
29-31 March 2022, Florida, USA
Web: https://www.filtxpo.com/

JUNE 2022

INTERNATIONAL TEXTILE MACHINERY EXHIBITION (ITM) 2022
14-18 June 2022, Istanbul
Web: https://www.itmexhibition.com/itm2022/

HIGHTEX 2022 (International Technical Textiles and Nonwoven Trade Fair)
14-18 June 2022, Turkey
Web: https://www.hightexfairs.com/hightex2022/

TECHTEXTIL 2022
21-24 June 2022, Frankfurt, Germany
Web: https://techtextil.messefrankfurt.com/frankfurt/en.html

SEPTEMBER 2022

CINTE TECHTEXTIL CHINA
06-08 September 2022, Shanghai, China
Web: https://cinte-techtextil-china.hk.messefrankfurt.com/shanghai/en.html

OCTOBER 2022

IFAI EXPO 2022
12 October 2022, North Carolina, USA
Web: https://ifaiexpo.com/

NOVEMBER 2022

FILTREX
8-9 November 2022, Berlin, Germany
Web: https://www.edana.org/events/filtrex/filtrex-europe

HYGIENIX 2022
14-17 November 2022, Louisiana, USA
Web: https://www.hygienix.org/

FILTREX ASIA
16-17 November 2022, Shanghai, China
Web: https://www.edana.org/events/filtrex/filtrex-asia

ITMA ASIA + CITME
20-24 November 2022, Shanghai, China
Web: https://www.itmaasia.com/

DECEMBER 2022

INDIA ITME 2022 (11th India International Textile Machinery Exhibitions)
08-13 December 2022, Greater Noida, UP
Web: https://itme2022.india-itme.com/