



54 NEW HSN CODES WERE APPROVED AS TECHNICAL TEXTILES BY CBIC, MoF



INITIATIVES BY GOVT. TO BOOST TEXTILE/ TECHNICAL TEXTILE TRADE

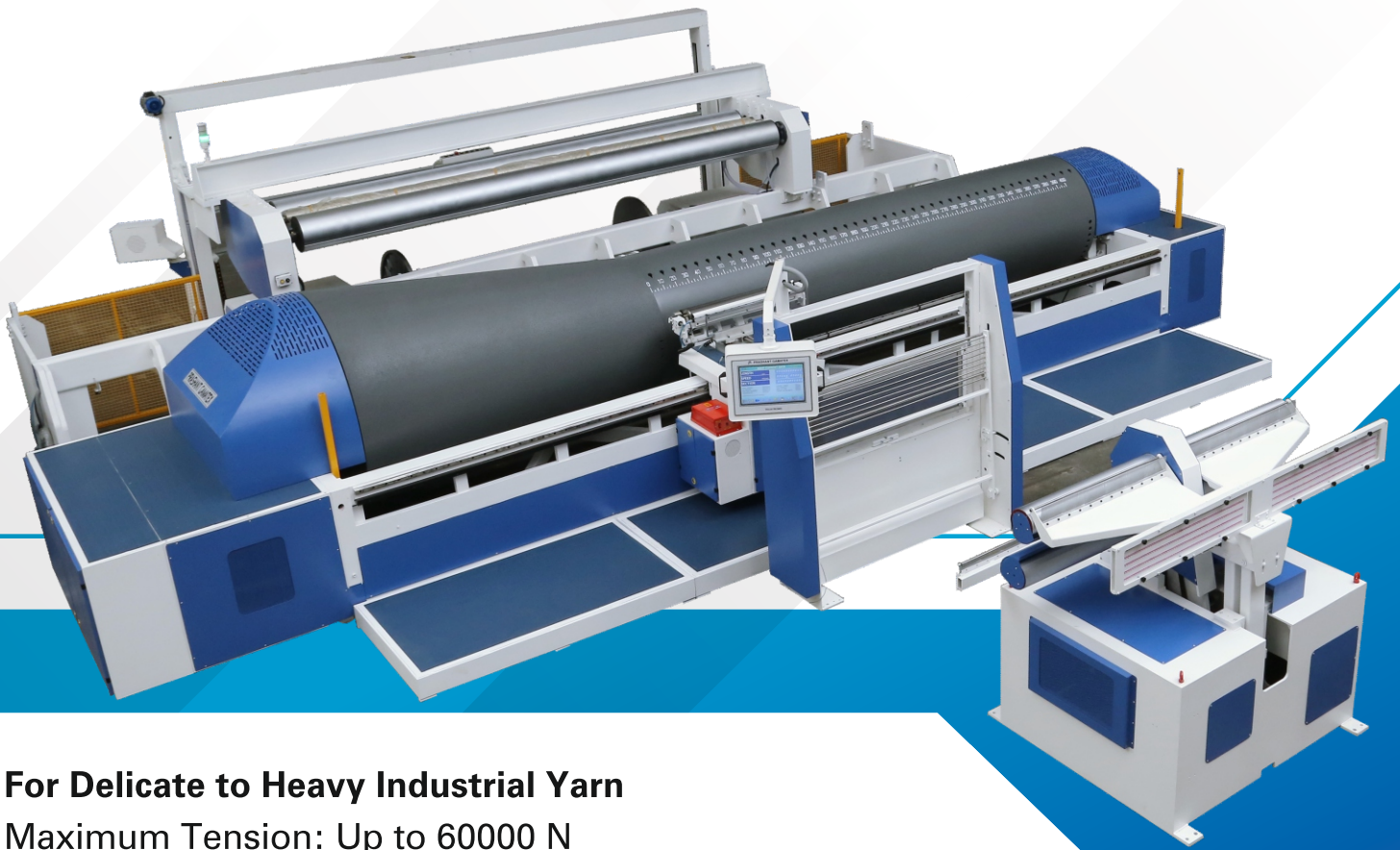
- INDIA & UAE'S MOU ON COOPERATION IN FIELD OF INDUSTRIES & ADVANCED TECHNOLOGIES
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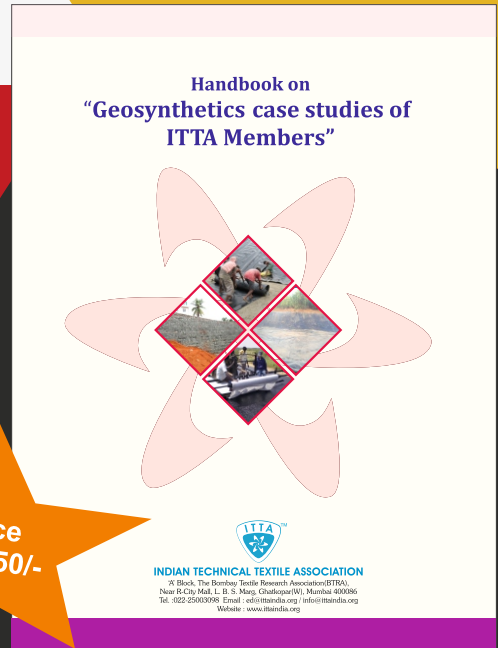
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314, 3rd Floor, MIDAS, SAHAR PLAZA, Andheri-Kurla Road, J.B. Nagar, Andheri-East, Mumbai - 400059

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



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Tel: 022-49635711; Mob: 9769464616
Email: ed@ittaindia.org

Regional Offices :

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Coimbatore :

SIMA, "Shanmukha Manram",
41 Race Course, Coimbatore - 641018
Tel: 0422 4225333

EDITORIAL TEAM

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

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ADDITIONAL LIST OF 54 TECHNICAL TEXTILE ITEMS (OTHER THAN 207 TT ITEMS)

Central Board of Indirect Taxes and Customs (CBIC), Department of Revenue, Ministry of Finance (MoF), GOI had released the Additional List of 96 Technical Textiles Items, as given below and incorporated in the Notification of CUSTOMS TARIFF OF INDIA-2022 effective from 01.05.2022.

Sr. No.	ITC HS Codes (2022)	Description of goods
1	59119031	Knitted or woven Geo-technical textile: Geogrid conforming to IS 17373
2	59119032	Knitted or woven Geo-technical textile: Geotextile conforming to IS 16391, IS 16392
3	39201013	Geomembrane, confirming to IS 16352
4	56039410	Weighing more than 150 g/m ² : Non-woven Geotextile and articles thereof, Conforming to IS 16391, IS 16392
5	60053710	Other, dyed: Shade Nets, conforming to IS 16008
6	56039310	Weighing more than 70 g/m ² but not more than 150 g/m ² : Mulch Mats, conforming to IS 17355
7	59119040	Mulch mats, conforming to IS 16202
8	56039420	Weighing more than 150 g/m ² : Mulch Mats, conforming to IS 17355
9	56031110	Weighing not more than 25 g/m ² : Crop covers, conforming to IS 16366
10	30061010	Sterile, surgical catgut and similar sterile suture materials (including sterile absorbable surgical or dental yarns) and sterile tissue adhesives for wound closure
11	62104020	NBC Warfare suits and the like (conforming to IS 17377)
12	62104030	High Visibility Warning Clothes and the like (Conforming to IS 15809)
13	62104040	High Altitude Clothes (Conforming to IS 5866)
14	62104050	Fighter Aircraft Clothing (Conforming to IS 11871)
15	90200000	Other Breathing Appliances and Gas masks, Excluding Protective Masks having neither mechanical parts nor replaceable filters
16	65069900	Other Headgear, whether or not lined or trimmed: Other: Of other materials
17	84212300	Filtering or purifying machinery and apparatus for liquids: Oil or petrol-filters for internal combustion engines
18	95069110	Articles and equipment for general physical exercise, gymnastics or athletics: Boxing equipment
19	95069920	Articles and equipment for general physical exercise, gymnastics or athletics: Other: Leg pads and bats for cricket
20	95069990	Articles and equipment for general physical exercise, gymnastics or athletics: Other: Other

Sr. No.	ITC HS Codes (2022)	Description of goods
21	62101010	Personal protective garments for surgical/ medical use (felt or non-woven) conforming to IS 17423
22	62101020	Surgical gowns and drapes conforming to IS 17334
23	62104080	Clothing for special use such as FR, chemical (IS 15071,15758), electrical (IS 11871, IS 16655) and industrial protection (IS 17466)
24	55159950	Fabrics made of 100% inherent FR synthetic fibre
25	63079091	Textile face masks, without a replaceable filter or mechanical parts, including surgical mask and disposable face mask made of nonwoven textile
26	68151100	Carbon fibres
27	68151200	Fabrics of carbon fibres
28	55031110	Of aramids: Aramid Flame Retardant Fibre
29	54021110	Of aramids
30	55011100	Synthetic Filament Tow: Of nylon or other polyamides: Of aramids
31	55031120	Of aramids: Para-aramid Fibre
32	55031930	Nylon 66 fibre conforming to IS 13464 Other *
33	54021920	Nylon 66 filament yarn confirming to IS 13464 *
34	70191100	Glass Fibres (including glass wool) and articles thereof (for example, Yarn, Rovings, Woven fabrics): Chopped strands, of a length of not more than 50 mm
35	70191200	Glass Fibres (including glass wool) and articles thereof (for example, Yarn, Rovings, Woven fabrics): Rovings
36	68159930	Basalt fibre, filament and articles thereof conforming to ASTM D3039, C1185
37	55039030	Ultra-high molecular weight polyethylene staple fibre conforming to ASTM F2848
38	54026960	Ultra-high molecular weight polyethylene filament yarn conforming to ASTM F2848
39	68151300	Other articles of carbon fibres
40	55033010	Acrylic or modacrylic: Pre-Oxidised Fibre, conforming to IS 17308
41	70196300	Glass Fibres (including glass wool) and articles thereof (for example, Yarn, Rovings, Woven fabrics): Mechanically bonded fabrics: Closed woven fabrics, plain weave, of yarns, not coated or laminated
42	70196400	Glass Fibres (including glass wool) and articles thereof (for example, Yarn, Rovings, Woven fabrics): Mechanically bonded fabrics: Closed woven fabrics, plain weave, of yarns, coated or laminated
43	70196500	Glass Fibres (including glass wool) and articles thereof (for example, Yarn, Rovings, Woven fabrics): Mechanically bonded fabrics: Open woven fabrics of a width not exceeding 30cm

Sr. No.	ITC HS Codes (2022)	Description of goods
44	70196600	Glass Fibres (including glass wool) and articles thereof (for example, Yarn, Rovings, Woven fabrics): Mechanically bonded fabrics: Open woven fabrics of a width exceeding 30 cm
45	40151200	Gloves, mittens and mitts: Of a kind used for medical, surgical, dental or veterinary purposes
46	54025210	Of polyesters: Polyester Yarn -Anti Static Filament
47	55031910	Other: Nylon Staple Fibre
48	55031920	Other: Nylon Anti-Static Staple Fibre
49	55041011	Of viscose rayon: Obtained from wood other than bamboo: Flame retardant Viscose Rayon fibre
50	55041021	Of viscose rayon: Obtained from bamboo: Flame retardant Viscose Rayon fibre
51	55099910	Yarn made of 100% inherent FR synthetic fibre
52	55109030	Yarn made of 100% inherent FR artificial fibre
53	57032100	Of nylon or other polyamides: Turf
54	57033100	Of other man-made textile materials: Turf

* IS 13464 - This std is for Nylon granules/ chips and not for Nylon 66 fibre & filament yarn. We have sent these corrections to MoT for further action.



ITTA SIGNED MOU WITH INTERNATIONAL FINANCE CORPORATION (IFC)

International Finance Corporation (IFC), a member of The World Bank Group is the largest global development institution focused on the private sector in developing countries. They help countries develop their private sectors in a variety of ways: Investing in companies, Mobilizing capital and Advising businesses and governments. Benefits of the MOU are: - PPE global advisory market-level work in India aims at creating and disseminating knowledge and includes activities that will focus on-

1. Increasing knowledge of national labs in India
2. Improving the understanding of key stakeholders on voluntary standards for non-medical masks
3. Increasing global knowledge on PPE topics through webinars and publications.

EXPORT-IMPORT PERFORMANCE OF TECHNICAL TEXTILE PRODUCTS OF MARCH 2022

(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.)

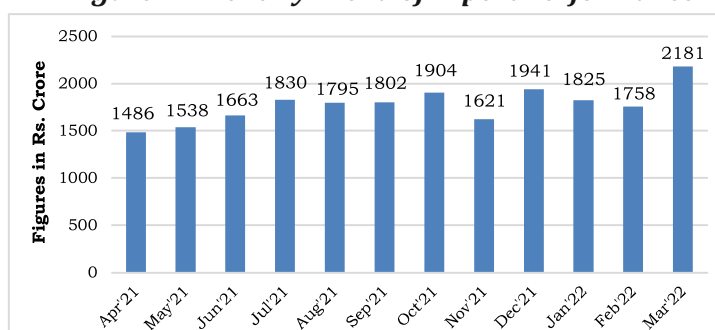
Sr. No	Segments	Mar 2021	Mar 2022	% Growth	Apr'20-Mar'21	Apr'21-Mar'22	% Growth
1	Agrotech	75	82	9%	692	737	6%
2	Buildtech	64	99	53%	729	900	23%
3	Clothtech	21	33	57%	207	325	57%
4	Geotech	214	238	11%	1841	2490	35%
5	Hometech	21	25	19%	166	257	54%
6	Indutech	251	330	31%	2244	3155	41%
7	Meditech	127	175	38%	1406	1757	25%
8	Mobiltech	122	180	48%	1336	1722	29%
9	Packtech	634	717	13%	5806	8242	42%
10	Protech	39	108	174%	441	572	30%
11	Sportech	38	44	18%	297	354	19%
12	Nonwovens	200	150	-25%	1679	1686	0%
	GRAND TOTAL	1806	2181	21%	16844	22197	32%

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

Top Ten Exported Products in Month of March '22 -

Sr. No.	HS Codes	PRODUCT NAMES	VALUES (IN CR.)
1	63053200	Flexible Intermediate Bulk Containers (PACKTECH)	644
2	59039090	Geogrids (GEOTECH)	121
3	56074900	Cordage of polyethylene/ polypropylene (INDUTECH)	104
4	84212300	Oil or petrol-filters for internal combustion engines (INDUTECH)	72
5	70199090	Geocomposites (GEOTECH)	72
6	53101013	Jute Hessian Fabrics (PACKTECH)	69
7	62104010	Bullet Proof Jackets, Bomb Disposal Jackets etc. (PROTECH)	55
8	59031090	Other fabrics Impregnated, Laminated Plated and Coated with PVC (BUILDTECH)	52
9	56031200	Nonwovens of MMF: Wt. - 25 gsm to 70 gsm (NONWOVEN)	52
10	61152990	Panty Hose and Tights of Other Fibres (MEDITECH)	49

Figure 1 - Monthly Trend of Export Performance



There was a dip in the above export figures from January to February 2022, then the export had picked up in March 2022.

B. IMPORT PERFORMANCE

(Value in INR Cr.)

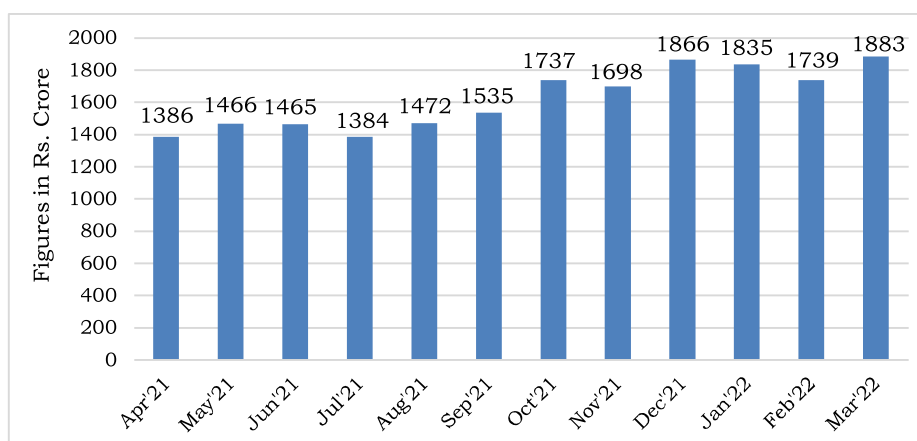
Sr. No	Segments	Mar 2021	Mar 2022	% Growth	Apr'20-Mar'21	Apr'21-Mar'22	% Growth
1	Agrotech	27	34	24%	289	441	52%
2	Buildtech	131	154	18%	1221	1793	47%
3	Clothtech	20	25	22%	196	322	65%
4	Geotech	119	179	50%	1262	1864	48%
5	Hometech	38	40	6%	381	397	4%
6	Indutech	337	475	41%	2899	4076	41%
7	Meditech	105	100	-5%	1030	1226	19%
8	Mobiltech	515	572	11%	4065	6534	61%
9	Packtech	34	60	74%	440	636	45%
10	Protech	46	36	-21%	414	511	24%
11	Sportech	13	17	32%	128	177	38%
12	Nonwovens	192	191	-1%	1662	2196	32%
	GRAND TOTAL	1577	1883	19%	13987	20173	44%

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

Top Ten Imported Products in Month of Mar'22 -

SR. NO.	HS CODES	PRODUCT NAMES	VALUES (IN CR.)
1	87089500	Safety airbags with inflater system (MOBILTECH)	144
2	70199090	Geocomposites (GEOTECH)	89
3	70191900	Glass Fibres (Including Glass Wool): Other (Silvers, Yarn) (INDUTECH)	86
4	59032090	Other Fabrics Impregnated, Laminated Plated and Coated with Polyurethane (BUILDTECH & MOBILTECH)	71
5	59021090	Other Tyre cord fabric of nylon or other polyamides (INDUTECH)	70
6	54022090	Other High tenacity yarn of Polyester whether or not textured (INDUTECH)	66
7	54021990	Other High tenacity yarn of nylon or other polyamides (Less than 840 Denier) (INDUTECH)	61
8	70191100	Glass Chopped Strands of a length not more than 50 mm (INDUTECH)	61
9	70191200	Glass Rovings (INDUTECH)	61
10	59039090	Geogrids (GEOTECH)	60

Figure 2 - Monthly Trend of Import Performance



India's imports of TT products have registered a slight decrease from January to February 2022, then it had shown a growth in March 2022.

1. ENGAGEMENTS WITH CENTRAL & STATE GOVERNMENTS

1.1. Meeting of TAMC under ATUFS

The 27th & 28th TAMC meetings under ATUFS were held through audio-video conferencing on 13.04.2022 & 21.04.2022 respectively under the Chairpersonship of Textile Commissioner. Dr. Anup Rakshit, ED, ITTA attended the meeting. MOM was circulated to all ITTA members. Major Decisions Taken in TAMC -

- a) 51 machinery manufacturers were enlisted under ATUFS.
- b) ITTA's representation was accepted and the specification is modified as follows - MC-3-i-9 = "Machinery for conversion of nonwovens into sanitary napkins/ baby diapers/ adult diapers/ under pad".
- c) Manufacturer of Drum Filters should be enlisted as component/ accessories manufacturer separately so that its cost may be considered as spare parts/ accessories in future.

1.2. Meeting of IMSC under ATUFS

The 06th meeting of IMSC under ATUFS was held through audio-video conferencing on 28.04.2022 under the Chairpersonship of Hon'ble Minister of Textiles & co-chaired by Hon'ble Minister of State for Textiles. Dr. Anup Rakshit, ED, ITTA attended the meeting. MOM was circulated to all ITTA members.

Major Decisions Taken in IMSC are -

- a) Allowed condoning delay for submission of UID applications after 6 months from date of term loan & also submission of JIT request beyond 2 years from date of term loan.
- b. Reduction in time required for data validation in PFMS from 24hrs to 12hrs for speedy transfer of fund to the beneficiary accounts.

2. REPRESENTATIONS TO GOVT. ON MEMBERS' ISSUES

2.1. Representation to MOF for non-imposition of anti-dumping duty on Glass fibre from China

The PU Leather is used in very large quantity by the textiles & garments and technical textiles sectors. PU leather and its value-added inputs are also used in high growth and labour-intensive sectors like the automotive industry, footwear, furnishing, bags, belts and wallets manufacturing segments. Hence it is important and imperative to arrest the large-scale imports of this product into India. In this regard, ITTA members who are manufacturers of the PU leather approached ITTA to represent the issues to the appropriate authority.

Accordingly, ITTA made a representation to Department of Revenue, Ministry of Finance (MoF) for issuance of Customs Notification to give effect to the DGTR's recommendation for imposition of Anti-dumping Duties on imports of "Polyurethane Leather" from China PR which will result in large number of downstream industries becoming more dependent on unreliable, cheap and low-quality Chinese PU Leather import pushing them to low levels of competitiveness due to price & cost disadvantages.

3. EVENTS SUPPORTED & CONTRIBUTED BY ITTA

3.1. INNOTEX 2022

Kusumgar Corporates Pvt. Ltd. and Textile Manufactures Department of Veermata Jijabai Technological Institute (VJTI) organized the second season of INNOTEX 2022 for Students' innovation in the arena of Technical Textiles on 22nd April 2022 at

Krantijyoti Savitribai Phule Auditorium, VJTI, Mumbai in the presence of Ms. Roop Rashi, IA & AS, Textile Commissioner, GOI as the Chief Guest for the event.

The competition has received a great response from students all over the country and total of 11 entries were received. They were evaluated by the Jury members comprising of Dr. Sujata Saxena, Director (Acting), CIRCOT, Dr. Anup Rakshit, Executive Director, ITTA, Dr. Anirban Guha, Professor-Mechanical Engineering, IIT Bombay and Dr. M. K. Talukdar, Vice-President, Kusumgar Corporates.

Ms. Rashi was overwhelmed by the projects and highlighted the relevance of technical textiles in recent times by saying, "We should focus more on producing technical textile because it is still quite niche. The technical textile market was valued at 2.17 billion dollars in 2020, and we expect it to reach 5 billion dollars in the next five years." She further added "The future of technical textiles in India is promising, as indicated by the fact that we met our export targets earlier this year, within 17 days before the deadline."

"The youths of the country must innovate, should research more, and make our country self-sufficient," said S. Hari Shankar, Chairman ITME Society to the youthful audience, motivating them to contribute more to this sector. In the future, we should not be reliant on any other country for the imports."

Shri. J. K. Gupta, Scientists-E & Head, Textiles Department, Bureau of Indian Standards, discussed how Indian technical textiles is a prominent participant in the world, supplying products for various sectors. "Technical textiles account for 13% of India's total textile manufacturing," he continued. "It makes up 0.7% of the world's gross domestic product. We've developed over 500 technical textile standards, and as a result of our commitment and hard work, we're now the leading exporter of mask and geo textiles." Shri. Gupta further informed how the country supplies lakhs of bullet-proof jackets to the Indian army and other countries, and how they fulfill all international standards.

Innotex, the first and only national competition of its kind, invited students and academia from all institutes and colleges in India to submit their most innovative ideas/projects in the domain of Technical Textiles with the aim of providing them a platform to compete with the best textile minds in the country. This project competition is aimed to provide an opportunity for Textile students to show their talent, challenge themselves, test their ideas,

connect with textile professionals, realize their dreams and develop a passion for engineering.

The competition has received a great response from students all over the country and total of 11 entries were received of which three best projects were shortlisted by the distinguished jury i.e., Liquid Leakage Detection based on Integration of Conductive Polymer over Non-woven Fabric: A cost Effective Smart Solution for Multiple Applications-IIT, Delhi, Lymphedema Sleeves Technology- VJTI, Mumbai and Investigation on Responsive Behavior of Shape Memory Knitted Textiles - An approach towards the development of Self Fitting Garments-IIT, Delhi. They were awarded with Cash prize and a Certificate.

Ms. Rashi presented the winners with awards and a cash prize, and the event ended with further motivation to submit nominations for the next year.

3.2 Research Conclave on "Indigenous Technology Development for Speciality Textiles"

Textile Department of VJTI-Mumbai and India ITME Society jointly organised a One Day Research Conclave on the theme of "Indigenous Technology Development for Speciality Textiles" on 1st June, 2022 to showcase the recent Research & Development work done by the academia and the Research organizations on textiles including technical textiles.

This conclave was supported by the Office of Textile Commissioner, Ministry of Textiles, and Technology Development Board (TDB) of Department of Science and Technology (DST), GOI. Dr Anup Rakshit, ED, ITTA and Mr Avinash Misar, VC, ITTA were invited as Panel members in the conclave.

The purpose of organizing this Research Conclave is to provide a platform to the Researchers to present their innovation in Technology and the prototype models to the Textile Industry representatives for adoption and further scaling up at the commercial level.

Ms. Roop Rashi Mahapatra, the Textile Commissioner, MoT conceptualised this idea of organising this event. She said that any research & development work done by the Research or Academic institutions should focus on the successful commercialisation of the product/process so that industry & ultimately the country is benefited.



Shri Rajesh Kumar Pathak, Honourable Secretary, TDB informed how they are encouraging the futuristic developments of new concepts and DST, GOI is funding the Institutions and Start-ups. Those who are interested, can get more details in TDB website- www.tdb.gov.in.



Five projects from VJTI and 3 Projects from SASMIRA, WRA and BTRA were presented in the Conclave. Panel members and Industry representatives actively participated and suggested the way forward in these projects.



ITTA SIGNED MOU WITH THE TEXTILE INSTITUTE (TI)

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

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



SEKHANI

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Fem Care



Wonderize and Doobidoo, these two brands were introduced by SEKHANI GROUP of companies. Our manufacturing site, is located at Sanand, Ahmedabad, and Gujarat. We have a fully automatic plant in Sanand, Ahmedabad Gujarat spread over 1 lac sq m, with world-class technologies to manufacture the best quality sanitary napkins and diapers. Equipped with fully automatic Servo machines, highly skilled employees, well-equipped laboratory and backed by a strong R&D unit.

Wonderize focuses on making high quality sanitary napkins - catering to generic and specific needs of consumers. We manufacture both fluff based and ultra-thin napkins embedded with customised features available in different sizes (regular, large and extra-large). As an industry leader in India, we try to stay one step ahead of the market by innovating, experimenting, and developing newer products. While for baby diapers, before coming out in the market we have been through the different processes of conducting research with the experts. This product is designed by the Indian team and in India itself keeping in mind India's customer needs.

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Web - www.cuddlesbabycare.com

Email - marketing@swarababy.com

Funding under Technology Development Fund scheme of DRDO enhanced



Raksha Mantri Shri. Rajnath Singh has approved enhancement of funding under Technology Development Fund (TDF) scheme of Ministry of Defence to Rs. 50 crore per project from Rs. 10 crore. The TDF scheme, executed by Defence Research and Development Organisation (DRDO), supports indigenous development of components, products, systems and technologies by MSMEs and start-ups.

It may be recalled that 25% of defence R&D budget was earmarked for private industry, start-ups and academia in Union Budget 2022-23. The enhanced funding is in line with the budget announcement and it will give further boost the vision of 'Aatmanirbharta in defence'.

The TDF Scheme aims to provide a major fillip to the defence manufacturing sector by encouraging the industry to innovate and develop defence technologies in order to place India on the self-reliance trajectory. The scheme facilitates up to 90% of the total project cost and allows industry to work in consortium with another industry/academia. With the enhanced funding, the industry and startups will be able to develop more complex technologies for existing and future weapon systems and platforms. Till date, 56 projects have been sanctioned under TDF scheme.

[Source - <https://pib.gov.in/PressReleasePage.aspx?PRID=1832042>]

Green alternatives to replace single-use plastic from July 1



In a bid to make the state single-use plastic-free, several individuals and industrial setups are working on green alternatives for a permanent replacement to contribute to improve the environment. The blanket ban on plastics and polystyrene (thermocool) products will be strictly imposed from July 1 across the country, as per the gazette notification issued by the Centre on August 12, 2021. The state government has come up with

the idea of promoting products made of jute, paper, corn husk, banana fronds and cotton to discourage plastic use.

Industry minister Shri. Syed Shahnawaz Hussain said all the plastic and polystyrene industrial setups have been instructed to start making eco-friendly products. He told TOI that most of the plastic units have started making alternatives like jute and cotton

bags, disposable plates, cutleries and cups made of thick paper, banana frond and corn husk, straw of corn starch and clay-mud cups. "Some new units of jute and paper among other have also been set up in the state in the last 6-7 months. With the ban, more people would switch to alternatives," he said.

Bihar State Khadi Village Industries Board is also promoting and supplying biodegradable products as the best substitute to plastic and thermocol. The items that will be banned include earbuds with plastic sticks, plastic sticks for balloons, plastic flags,

candy sticks, ice cream sticks, thermocol for decoration, plastic plates, cups, glasses, cutlery such as forks, spoons and knives, straw, trays, wrapping films around sweet boxes, invitation cards, and cigarette packets, plastic or PVC banners of less than 100 microns and stirrers.

[Source - <https://timesofindia.indiatimes.com/city/patna/green-alternatives-to-replacesingle-use-plastic-from-july-1/articleshow/92068897.cms>]

Extended IES will also be available to PLI beneficiaries



RBI on 8th March 2022 extended the Interest Equalisation Scheme (IES) for pre and post shipment rupee credit for MSME exporters till March 2024 or till further review. It was mentioned that the extended IES would not be available to those beneficiaries who were availing of the benefit under any Production Linked Incentive (PLI) scheme of the Government. In this regard, RBI has now issued Notification No. RBI/2022-23/60 dated 31st May, 2022 clarifying that -

- The extended IES will also be available to such beneficiaries for segments other than for which they

have availed of PLI benefits.

- It is further advised that banks shall obtain a Self-Declaration under the IES from the exporters as per the format given in the Annexure to the Notification dated 31st May, 2022.
- These provisions shall be deemed effective from 1st October, 2021 and other provisions of the aforesaid Notification shall remain unchanged.

[Source - <https://www.rbi.org.in/scripts/NotificationUser.aspx?id=12327&Mode=0>]

India' Aroo develops ECWCS & Defence Clothing for Indian Army

Aroo based in Karnataka is the first defence start-up that creates the intellectual property in specialised defence clothing and gear for the Indian Army. The company is developing ECWCS (Extreme Cold Weather Clothing System) and other specialised defence clothing for the army.

ECWCS is a 3-layer modular clothing system worn together, which is designed to operate in temperatures of up to -50 degrees Celsius. This product is used by Indian soldiers at high altitude

regions including the Siachin Glacier which is the highest battlefield in the world. This clothing system was being imported for over 25 years.

Aroo can, with pride comment that Aroo ECWCS outperforms the imported clothing systems provided to the Indian Army. It is also at a lower cost thus providing savings to the Indian government. Furthermore, the Indian Army is no longer dependent on foreign companies for this life-saving apparel. Aroo is also in advanced field trials with the

Indian Army for the new Trouser ECC (extreme cold clothing) which operates in temperatures up to -30 degrees Celsius.

The manufacturing process designed by AROO is focused on creating a defect-free product. The manufacturing lines at their OEM's facility combined with our quality standards and rigorous raw material testing conducted at their OEM's in-house testing facility, provide us with real-time

product performance, with an eye on the CLO value (warmth level) and waterproofness of the garment our production supply outperform foreign specifications by 20 to 75% on key performance parameters.

[Source-<https://www.technicaltextile.net/news/india-s-aroo-develops-ecwcs-defence-clothing-for-indian-army-280456.html>]



MoT in partnership with FICCI organized the 5th National Conclave on Standards for Technical Textiles, Building Standards for India@2047 on 10th June 2022. The conclave was inaugurated by Shri. U P Singh, Secretary, MoT. It encompassed a wide array of sessions and discussions on standards & regulations covering different areas of Technical Textiles including Protech & Specialty Fibres, Agrotech & Meditech, Geotech & Buildtech, Mobiltech, Composites and Indutech.

Speaking at the inaugural session of the conclave, Shri. U P Singh highlighted that the NTTM and PLI in Textiles to support the penetration and exports of technical textiles in India. He added that standards provide a facilitating framework for technical textiles' manufacturers in India. Continuous adoption and upgradation of the standards for each product category and segment will have a positive impact on the consumption of technical textile products in India, he further emphasized.

He emphasized that development and adoption of Indian standards for high-end Technical Textiles is the need of the hour. Need to examine the possibility of Quality Control Orders (QCOs) for some of the Technical Textiles from safety, health and environment standpoint. Government will endeavor to provide all the needed support to promote Indian technical textiles sector across the world, added Shri. Singh.

During the Keynote address, Lt. Gen. Shri Rajeev

Chaudhry, VSM, Director General, Border Roads Organisation (BRO) emphasized on the active role of BRO in driving the wide usage of Geo-textiles products. He further added that the BRO has collaborated with industry and academia for development of new material & technology solutions. Thus, standardization of these products plays an important role in further increasing the usage, going forward.

Shri Rajeev Sharma, Deputy Director General (Standardization) BIS highlighted that over 500 standards have already been formulated for technical textile products by BIS in India since 2011 and further 40+ standards are being developed in close coordination with MoT, Industries and other Line Ministries and Departments.

BIS has undertaken several initiatives to fast-track the formulation and harmonization of standards for technical textiles including Formation of specialized committee for Technical Textiles, Pre-membership in ISO Technical Committee, Digitization of standardization activity, Action-Research based approach, Free of Cost Indigenous Standards information and MoUs with eminent institutes have been the focused initiatives undertaken by BIS towards building technical textiles standards in India, he further added.

[Source - <https://pib.gov.in/PressReleasePage.aspx?PRID=1832928>]

New Guidelines of Micro & Small Enterprises Cluster Development Programme approved



The Government has approved New Guidelines of Micro & Small Enterprises Cluster Development Programme (MSE-CDP), which will be implemented during 15th Finance Commission Cycle (2021-22 to 2025-26). The scheme aims at enhancing the competitiveness and productivity of Micro & Small Enterprises by undertaking interventions such as:

I) Common Facility Centers (CFCs): The central government grant will be restricted to 70% of the cost of project from Rs. 5 crores to Rs. 10 crores and 60% of the cost of project from Rs. 10 crores to Rs. 30 crores. In case of NE & Hill States, Island territories, Aspirational Districts, government grant will be 80% of the cost of project from Rs. 5 crores to Rs. 10 crores and 70% of the cost of project from Rs. 10 crores to Rs. 30 crores. The project for CFC with project cost more than Rs. 30 crores shall also be considered but the Government assistance would be calculated by taking into account the maximum eligible project cost of Rs. 30 crores.

ii) Infrastructure Development: The central government grant will be restricted to 60% of the cost of project from Rs. 5 crores to Rs. 15 crores for

setting up of new Industrial Estate/ Flatted Factory Complex and grant will be 50% of the cost of project from Rs. 5 crores to Rs. 10 crores for up-gradation of existing Industrial Estate/ Flatted Factory Complex. In case of NE & Hill States, Island territories, Aspirational Districts, grant will be 70% of the cost of project from Rs. 5 crores to Rs. 15 crores for setting up of new Industrial Estate/ Flatted Factory Complex and 60% of the cost of project cost from Rs. 5 crores to Rs. 10 crores for up-gradation of existing Industrial Estate/ Flatted Factory Complex. The project for ID with project cost more than Rs. 10/ 15 crores can also be considered but the government assistance would be calculated by taking into account the maximum eligible project cost of Rs. 10/ 15 crores.

The New guidelines of MSE-CDP are available on the website of the Office of DC (MSME) - <https://www.dcmsme.gov.in/schemes/New%20MSE-CDP.pdf>

[Source - <https://pib.gov.in/PressReleasePage.aspx?PRID=1828753>]

MoU between India & UAE on Cooperation in field of Industries & Advanced Technologies



The Union Cabinet chaired by the Prime Minister, Shri. Narendra Modi, has approved the proposal for signing a bilateral Memorandum of Understanding (MoU) between India and United Arab Emirates (UAE) on Cooperation in the field of Industries and Advanced Technologies.

The MoU envisages cooperation on a mutually beneficial basis in the following areas: Strengthening the Supply Chain Resilience of Industries, Renewable & Energy Efficiency, Health and life sciences, Space Systems, Artificial Intelligence, Industry 4.0 Enabling Technologies

and Standardization, metrology, conformity assessment, accreditation, and Halal certification. The MoU aims at strengthening and developing industries in both nations through investments, technology transfer and the deployment of key technologies in industries. This is likely to generate employment across the economy.

The implementation of MoU may lead to increase in research and innovation in all areas of mutual cooperation, particularly in the areas of Renewable

Energy, Artificial Intelligence, Industry Enabling technologies and Health and Life science. This may lead to growth of these sectors, increased domestic production, enhanced exports and reduction in imports. Signing of the MoU will result in fulfilling the goal of Atmanirbhar Bharat, a clarion call given by Hon'ble Prime Minister of India in making India a self-reliant nation.

[Source - <https://pib.gov.in/PressReleasePage.aspx?PRID=1832176>]

N95 mask with nanoparticle coating developed using 3D printing technology



Researchers have developed a reusable, recyclable, washable, odourless, non-allergic and anti-microbial N95 mask by using 3D printing technology. The four-layer mask whose outer layer is made up of silicon has a shelf life of more than 5 years depending upon the use.

Apart from its well-known uses to prevent infections like COVID 19, the mask can also be used by workers in different industries where they are exposed to high volumes of dust like cement factory, brick kilns, cotton factories and paint industries. It can be modified according to the requirement by changing the filter configuration according to the place in which it will be used and can help prevent severe lung diseases such as SILICOSIS. A trademark and a patent have also been filed for the mask called Nano Breath.

A 4-layer filtration mechanism has been provided in the mask wherein the outer and first layer of the filter is coated with nanoparticles. The second layer is a high-efficiency particulate absorbing (HEPA)

filter, third layer is 100 µm filter and fourth layer is moisture absorbent filter.

Dr. Atul Thakur, Dr. Preeti Thakur, Dr. Lucky Krishnia, and Prof. P. B. Sharma, Dinesh Kumar research scholar from Amity University Haryana (AUH) and Prof. Rakesh Srivastava from University of Nebraska, USA have jointly developed this product that has immense potential as a prophylactic.

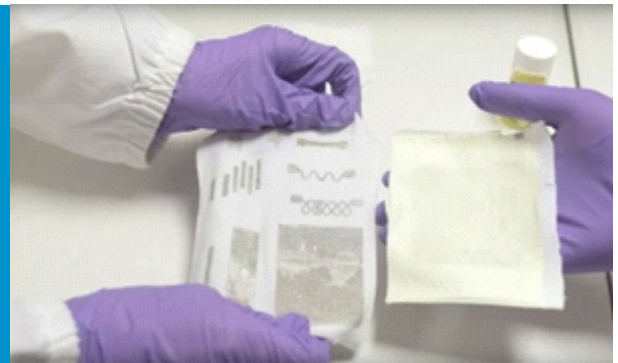
A Zetasizer Nano ZS, a facility supported by 'Fund for Improvement of Science & Technology Infrastructure' (FIST) project of the Department of Science & Technology (DST), Government of India which enables high temperature thermal analysis for ceramic materials and catalysis applications, has been used to carry out this work. It is a high performance, versatile system for measuring particle size, zeta potential, molecular weight, particle mobility and micro-rheology.

[Source - <https://pib.gov.in/PressReleasePage.aspx?PRID=1837316>]

INNOVATIONS & TECHNOLOGY

SMART TEXTILES - Washable fabric generates power & Powered Clothing

Stretchable & Waterproof fabric generates power from the body



Scientists at Nanyang Technological University in Singapore have developed a stretchable and waterproof fabric that turns energy generated from body movements into electrical energy. A crucial component in the fabric is a polymer that when pressed or squeezed converts mechanical stress into electrical energy. It is made with stretchable spandex as a base layer and integrated with a rubber-like material to keep it strong, flexible, and waterproof.

Washing, folding, and crumpling the fabric did not cause any performance degradation, and it could maintain stable electrical output for up to five months, demonstrating its potential for use as a smart textile and wearable power source. The prototype fabric produces electricity in two ways - when it is pressed or squashed (piezoelectricity), and when it comes into contact or is in friction with other materials, such as skin or rubber gloves (triboelectric effect).

To fabricate the prototype, the scientists first made a stretchable electrode by screen-printing an ink comprising silver and styrene-ethylene-butylene-

styrene (SEBS), a rubber-like material found in teethers and handlebar grips, to make it more stretchable and waterproof. This stretchable electrode is then attached to a piece of nanofibre fabric that is made up of two main components -poly (vinylidene fluoride)-co-hexafluoropropylene (PVDF-HPF), a polymer that produces an electrical charge when compressed, bent, or stretched and lead-free perovskites, a promising material in the field of solar cells and LEDs. The result is a prototype fabric that generates 2.34 watts per square metre of electricity - enough to power small electronic devices, such as LEDs and commercial capacitors.

For the knowledge, this is the first hybrid perovskite-based energy device that is stable, stretchable, breathable, waterproof, and at the same time capable of delivering outstanding electrical output performance.

[Source-<https://www.innovationintextiles.com/smart-textiles-nanotechnology/washable-fabric-generates-power-from-the-body/>]

Powered Clothing for Worker Safety

Seismic, an apparel company that designs powered clothing which is based in the US, has launched its newest line for worker safety. It is the first Seismic powered clothing designed specifically for the worker safety market, an over-the-clothes vest-style garment inspired by traditional workwear, with a toolbelt form-factor hardware carrier at the waist.

The Seismic suit has been designed in line with OSHA standards and developed in conjunction with customers to protect workers' core, upper and lower back in repetitive, awkward and hazardous postures. The suit automatically senses and responds to the workers movements and delivers powered strength from its seven twisted string



actuators when needed. The suit has a battery life of up to ten hours to ensure the worker can complete their shift uninterrupted. The Seismic suit can deliver 100% sustained powered support, essentially suspending the worker without any muscle engagement.

The Seismic suit is lightweight,

breathable, and comfortable with a vest style upper that utilises the latest materials for cooling and comfort, and a removable belt which houses the battery and drive components so that they can be easily swapped out. Flex-drive muscles are routed

within the garment and are aligned with the wearer's anatomical muscles, with quick release connections if they need to be removed. The suit features an integrated lumbar mechanism, external controls, with haptic and LED feedback, according to Seismic.

Purpose-built for manufacturing and logistics workplace, the suit doesn't interfere with existing PPE and can be put on, taken off in less than 60s, laundered for over 50 industrial cycles and serviced quickly to minimise time and associated labour cost. Special design details in the suit's garment pattern, lightweight technical components, and low-profile form factor prevent damage when in contact with external products, increase range of motion, and workers agility while performing tasks.

[Source-<https://financialpost.com/pmn/press-releases-pmn/business-wire-news-releases-pmn/seismic-announces-powered-clothing-for-worker-safety/>]

PROTECH

Multi-threat & Multi hazard Protection Garment unveils



Radiation Shield Technologies (RST), headquartered in the US, has launched its Demron multi-threat, multi hazard, protection garment. Demron is the only true anti-nuclear garment that protects against radiation, chemical, biological agents, and heat stress. Other suits claim to be antinuclear however they only block alpha particles which any fabric can do.

No other personal protective equipment (PPE) garment on the market truly reduces exposure to gamma X and high energy beta ionizing radiation. Additionally, the garment is self-cooling and can be externally cooled without removing it.

Demron is a radiation-blocking fabric. The material has radiation protection similar to lead shielding, while being lightweight and flexible. The

composition of Demron is proprietary, but is described as a non-toxic polymer. It shields the wearer from radiation alone, it can be coupled with different protective materials to block chemical and biological threats as well. It is roughly three to four times more expensive than a conventional lead apron, but can be treated like a normal fabric for cleaning, storage and disposal.

Demron combines the metallic properties of gamma radiation reduction, trauma reduction and thermal conductivity with advanced nano polymer technology, and is uniquely capable of providing true anti-nuclear protection and heat stress reduction without compromising chemical or biological hazard protection.

[Source-<http://radshield.net/Demron-RST.php>]

NONWOVENS

First ever Nonwovens made with recycled paper



Finland's Suominen has strengthened its position in the sustainable nonwovens market with Hydraspun Circula, the first ever nonwoven made with recycled paper. Hydraspun Circula is biodegradable, plastic-free, and can be used in multiple applications. The product was created in cooperation with Codi group, one of Europe's leading wet wipe producers. Drawing from both parties' industry expertise, the new product offers a variety of applications to meet consumers' daily needs.

Hydraspun Circula is a perfect example of how we can develop our nonwovens with innovations and more sustainable raw materials. Hydraspun Circula is also a proof of great product development towards a circular economy without compromising excellent quality and functionalities.

[Source-<https://www.globenewswire.com/en/news-release/2022/06/02/2454950/0/en/Suominen-launches-a-nonwoven-made-with-recycled-paper.html>]

MEDITECH

New Respiratory Protection Solutions for Healthcare Professionals

Honeywell announced two new NIOSH-certified respiratory offerings to help meet the needs of healthcare workers. As the next generation of the surgical N95 respirator, Honeywell designed the DC365 Small Surgical N95 Respirator to help protect frontline workers who need a smaller sized surgical N95. This new product increases Honeywell's robust PPE offerings, designed to better suit frontline workers with smaller facial features, offering a more secure fit to keep them and their surroundings safe, and solving a challenge faced within the healthcare industry, particularly affecting women.

Designed for heightened levels of filtration

efficiency, secure fit and breathing comfort in a variety of clinical settings, the new half mask respirator (RU8500X series) is a solution that healthcare workers can wear for hours during long shifts. Due to its filtered exhalation valve and a HEPA P100 filter, this reusable respirator allows for high performing protection (99.9%) and provides source control to the wearer and those around them.

[Source-<https://www.honeywell.com/us/en/press/2022/05/honeywell-launches-two-new-respiratory-protection-solutions-for-healthcare-professionals>]



HR HYGIENE PRODUCTS PVT. LTD., GUJARAT

Hyosung Group is the largest spandex manufacturer with its spandex brand “Creora”. They commenced project in Maharashtra, India under Make in India scheme in the name of Hyosung India and started its production on 1st Oct, 2019. They manufacture spandex yarn with a production capacity of 20000 MT/year.

NIRMAL FIBRES PVT. LTD., UTTAR PRADESH

Nirmal Fibres was established in 1997 with its RPSF/PPSF manufacturing facilities near New Delhi, India with collaboration from South Korea and China. They have machineries such as Melt Spinning m/c, Spun bond Nonwoven m/c, Transfer coating m/c, Quenching & Drawing m/cs. It has ISO 9001:2008 certification. They produce high-grade Recycled PET staple fibre (RPSF) & PP staple fiber (PPSF) with installed capacity of 30000 & 2500 MT/year respectively. They are also engaged in manufacturing PP Spunbond Nonwoven fabrics - 3.6 MT/year, Fruit protection covers, Low tunnel cover, Crop cover & Mulch Mat - 15 MT/year, PU & PVC coated fabrics - 600 MT/year.

WELCOME POLYMERS INDIA PVT. LTD., HARYANA

Welcome Polymers India have machineries such as High-Speed Splitting m/c, Adhesive Lamination m/c, Silicon Belt Lamination m/c, Flame Lamination m/c & PUL Laminator. Product includes Furnishing fabrics - 2 lakh mtr/year, Orthopedic Belt fabric & Arm Sling Pouch - 5 lakh mtr/year, Headliner, Door Trim & Sun Wiser fabric - 4 lakh mtr/year, Luggage Bag, Duffle bag & Ladies Purse fabric - 2 lakh mtr/year, Safety shoe fabric & Anti-static fabric - 2 lakh mtr/year and Shoe Sole & Insole, Gym Equipment fabric, Glove fabric - 10 lakh mtr/year.

TANGENT SCIENCE PVT. LTD., GUJARAT

Tangent Science is a newly formed Greenfield company for the purpose of Advanced Composites for Aerospace, Defense & Automation purposes. They have Weaving m/c, Spread tow manufacturing m/c line, Finishing lines and Inspecting lines. They are into manufacturing of Carbon fibers, Aramid fibers and Glass fibers in woven form - 5 lakh sqmts/year.

SPUNWEB NONWOVEN PVT. LTD., GUJARAT

Spunweb Nonwoven was established in 2015 at Morbi, Gujarat. Company has 2 manufacturing units which contains 5 different production lines i.e., SS PP Spunbond Nonwoven and SSS PP Spunbond Nonwoven. They produce PP Spunbond Nonwoven fabric - 35000 MT/year.

TECH WEAVE INTERNATIONAL PVT. LTD., GUJARAT

Tech Weave International have Tape extrusion line, Circular Weaving m/c, Extrusion Coating m/c, Flat Weaving m/c, Rewinding m/c, Single Color roto gravure printing m/c & Two color Flexo printing m/c. They manufacture of innovative coated woven products and diverse multi-layered laminated reinforced plastic substrates. Their product range includes Woven Ground covers – 1000 MT/year, PP Coated Woven Synthetic Roof Underlayment – 1000 MT/year, Woven Geotextile – 3000 MT/year and PP & PE woven fabrics for packaging & Leno bags – 8000 MT/year.

SEKHANI INDUSTRIES PVT. LTD., GUJARAT

Sekhani Industries has expertise in personal care products. Their manufacturing facility is equipped with fully automatic machines such as Conversion of Nonwoven into Sanitary Napkins (Type FS-AE +600 high speed), Conversion of Nonwoven into Beltless Sanitary Napkin with wings (Type HY-KB-1000 high speed) tri folded with wrapper and Conversion of Nonwoven into Baby diapers. They have ISO 9001:2015 certification. They manufacture Sanitary Napkins - 181.44 Cr. Nos/year and Baby Diapers - 15 Cr. Nos/year.

VIRIDIAN TESTING LABORATORIES LLP, TAMIL NADU

Viridian Testing Laboratories is one of the leading NABL Accredited and BIS recognized testing laboratories in India equipped with modern testing equipment offering reliable, accurate & authentic testing solutions for the Medical Textile (Surgical 3 ply face mask, surgical & isolation gown/ Drapes, PPE Coverall, N95/ FFP1/ FFP2 respirator) and Apparel (Hosiery yarn, Trim & accessories, Knitted, woven fabric & garments) to fulfil all the requirements. Their lab comprises of 3 testing sections- Physical/ Mechanical Laboratory, Chemical Laboratory and Microbiology Laboratory. They have all precise instruments to perform the NIOSH, USFDA, BIS & CE testing under one roof.

SWARA BABY PRODUCTS PVT. LTD., GUJARAT

Swara Baby Products was incorporated in 2016. Company started its commercial production in 2018. They have 5 lines of High-Speed Baby Diaper m/cs. They manufacture Baby Diaper - 30000 MT/year.

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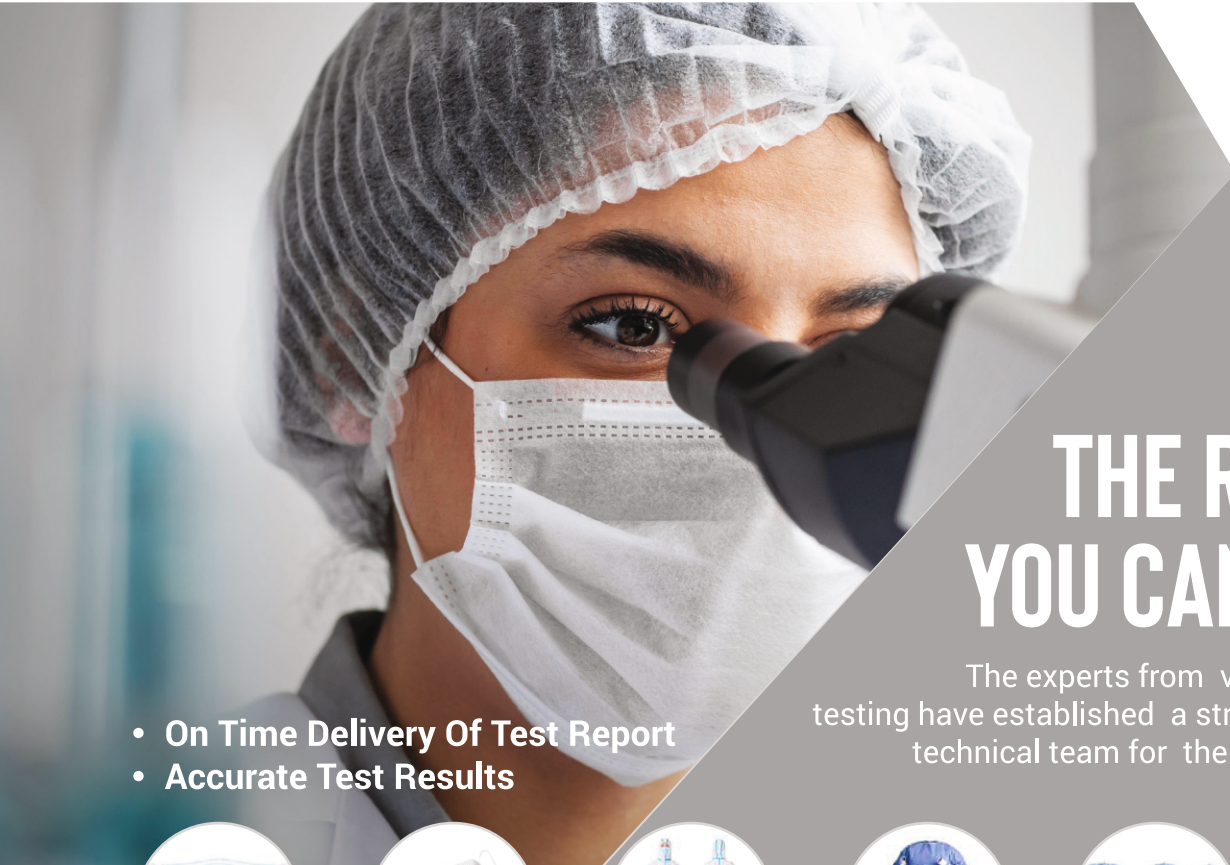
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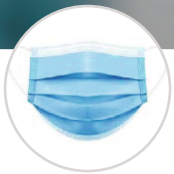
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Phone : 0421 -6613650, Email : info@Viridianlab.com | marketing@viridianlab.com
www.viridianlab.com

UPCOMING EVENTS

DATES	EVENTS NAME	PLACE	WEBSITE
05-07 May 2022	<i>YARNEX (India International Yarn Exhibition)</i>	Mumbai, India	https://www.yarnex.in/
12-14 May 2022	<i>GARTEX TEXPROCESS INDIA</i>	Mumbai, India	https://www.gartexindia.com/about-the-show/
12-14 May 2022	<i>MEDIAEXPO</i>	Mumbai, India	https://media-expo-mumbai.in.messefrankfurt.com/mumbai/en.html
14-17 May 2022	<i>TURKISH OCCUPATIONAL SAFETY + HEALTH EXHIBITION (TOSH EXPO)</i>	Istanbul, Turkey	https://www.messe-duesseldorf.com
17-19 May 2022	<i>TECHTEXTIL NORTH AMERICA</i>	Atlanta, Georgia	https://techtexsil-north-america.us.messefrankfurt.com/us/en.html
02-03 June 2022	<i>5TH EDITION 'RIGHT' HYGIENE</i>	New Delhi, India	https://www.bch.in/
02-05 June 2022	<i>INDIA MATTRESSTECH EXPO + UPHOLSTERY SUPPLIES</i>	Bengaluru, India	https://indiamattresstechexpo.com/
08-09 June 2022	<i>INTERNATIONAL NONWOVENS SYMPOSIUM (Hybrid Event)</i>	Lyon, France	https://www.edana.org/events/nonwovens-symposium/international-nonwovens-symposium
08-09 June 2022	<i>MED-TECH INNOVATION EXPO</i>	Birmingham, UK	https://www.itmexhibition.com/itm2022/
14-18 June 2022	<i>INTERNATIONAL TEXTILE MACHINERY EXHIBITION (ITM) 2022</i>	Istanbul	https://www.itmexhibition.com/itm2022/
17-18 June 2022	<i>OSH INDIA SOUTH</i>	Chennai, India	https://www.oshindia.com/south-india/
14-18 June 2022	<i>HIGHTEX 2022 (International Technical Textiles and Nonwoven Trade Fair)</i>	Turkey	https://www.hightexfairs.com/hightex2022/
21-24 June 2022	<i>TECHTEXTIL 2022</i>	Frankfurt, Germany	https://techtexsil.messefrankfurt.com/frankfurt/en.html
28-29 June 2022	<i>10TH FUTURE FABRICS VIRTUAL EXPO</i>	London, UK	https://www.futurefabricsvirtualexpo.com/
21-23 July 2022	<i>YARNEX (India International Yarn Exhibition)</i>	Delhi, India	https://www.yarnex.in/
04-06 August 2022	<i>GARTEX TEXPROCESS INDIA</i>	New Delhi, India	https://www.gartexindia.com/about-the-show/
04-06 August 2022	<i>SPORTS INDIA 2022</i>	Greater Noida, UP, India	https://iisgs.com/
14-17 August 2022	<i>INTERTEXTILE SHANGHAI HOME TEXTILES (Autumn Edition)</i>	Shanghai, China	https://intertextile-shanghai-hometextiles-autumn.hk.messefrankfurt.com/shanghai/en.html

DATES	EVENTS NAME	PLACE	WEBSITE
26-28 August 2022	<i>SPORTS EXPO INDIA 2022</i>	Hyderabad, India	https://sportex.in/index.html
01-03 September 2022	<i>MEDIAEXPO</i>	New Delhi, India	https://media-expo-newdelhi.in.messefrankfurt.com/newdelhi/en.html
04-07 September 2022	<i>7TH EUROPEAN GEOSYNTHETICS CONFERENCE</i>	Warsaw, Poland	https://eurogeo7.org
September 2022	<i>SAFETYEX</i>	Mumbai, India	http://www.safetyex.in/
06-08 September 2022	<i>CINTE TECHTEXTIL CHINA</i>	Shanghai, China	https://cinte-techtextil-china.hk.messefrankfurt.com/shanghai/en.html
09-11 September 2022	<i>11TH AGRI ASIA (Exhibition on Agriculture Technology)</i>	Gujarat, India	https://www.agriasia.in/
14-15 September 2022	<i>CONTAMINATION & GEOTECH EXPO</i>	Birmingham, UK	https://www.contaminationexpo.com/
21-22 September 2022	<i>INTERNATIONAL COMPOSITES SUMMIT (ICS)</i>	London, UK	https://www.internationalcompositessummit.com
23-25 September 2022	<i>8TH EDITION NONWOVEN TECH ASIA</i>	Delhi, India	https://www.nonwoventechasia.com/
12 October 2022	<i>IFAI EXPO 2022</i>	North Carolina, USA	https://ifaexpo.com/
17-20 October 2022	<i>CAMX 2022 (The Composites and Advanced Materials Expo)</i>	California, US	https://www.thecamx.org/
08-09 November 2022	<i>FILTREX</i>	Berlin, Germany	https://www.edana.org/events/filtrex/filtrex-europe
14-17 November 2022	<i>HYGIENIX 2022</i>	Louisiana, USA	https://www.hygienix.org/
16-17 November 2022	<i>FILTREX ASIA</i>	Shanghai, China	https://www.edana.org/events/filtrex/filtrex-asia
20-24 November 2022	<i>ITMA ASIA + CITME</i>	Shanghai, China	https://www.itmaasia.com/
24-25 November 2022	<i>OSH INDIA</i>	Mumbai, India	https://www.oshindia.com/mumbai/
08-13 December 2022	<i>INDIA ITME 2022 (11th India International Textile Machinery Exhibitions)</i>	Greater Noida, UP, India	https://itme2022.india-itme.com
30-31 December 2022	<i>INOS+H 2022</i>	Mumbai, India	https://www.md-india.com/event/inosh-expo-239.html
02-03 February 2023	<i>FILTREX INDIA</i>	New Delhi, India	https://www.edana.org/events/filtrex/filtrex-india
18-21 April 2023	<i>INDEX™23</i>	Palexpo, Geneva	https://www.indexnonwovens.com/en/
24-27 October 2023	<i>A+A 2023</i>	Germany	https://www.aplusa-online.com/