



# ANNUAL REPORT 2024-25



**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION**

(Linked to Ministry of Textiles, Government of India)

Sector-23, Raj Nagar, Ghaziabad-201017 (INDIA)



# **ANNUAL REPORT**

## **2024-25**

**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION**

(Linked to Ministry of Textiles, Govt. of India)

**SECTOR-23, RAJ NAGAR, GHAZIABAD-201 017 (INDIA)**

Phone: 0120-2807390 to 95, 2783586/592/095

Fax: 0120-2783596

E-mail: [mail@nitratextile.org](mailto:mail@nitratextile.org)

Website: [nitratextile.org](http://nitratextile.org)



# CONTENTS

# PAGE No.

1.	Message from the Chairman, Council of Administration	1
2.	From the Director General's Desk	3
3.	NITRA's Services to its Clients - At a Glance	10
4.	Organisation : Financial Performance and Membership	11
5.	Research & Development Activities	12
6.	Inspection & Consultancy Services	28
7.	Testing Services	29
8.	Training Services	34
9.	Library and Information Services	36
10.	Important Events and Happenings during 2024-25	40
11.	Powerloom Service Centres	46
12.	<b>Annexes:</b>	
	1) Members of the Council of Administration	48
	2) Members of the Finance & Administrative Sub-Committee	53
	3) Members of the Research Advisory Committee	56
	4) List of Member Units	59
	5) Staff Members	62
	6A) Research Papers Published and Presented	70
	6B) Books Published	78
	7) Training Programs, Workshops and Seminars Conducted	79
	8) Inspection & Consultancies Services	81
	9) Staff Participation in HRD Programs	83
	10) Additional Services to NITRA Members	85
	11) Journals Subscribed by NITRA Library	86
	12) Journals Received on Complimentary Basis	87
	13) Placement of students of NITRA Technical Campus	88
13.	<b>Auditor's Report &amp; Balance Sheet</b>	90



## MESSAGE FROM THE CHAIRMAN COUNCIL OF ADMINISTRATION



Dear Patron,

It is a matter of great pleasure for me to write a few words as the Chairman of India's leading textile research association NITRA. NITRA has not only been providing R&D and other technical support to Indian textile and clothing industry since its inception in 1974 but is also continuing to serve the industry in a diversified & sustained manner year after year. The best part about NITRA is that without getting complacent for what they have achieved, their pursuit for excellence is continuous hence the organization is growing at a steady pace. I duly credit NITRA's efficient workforce and valued clientele for this achievement. Furthermore, this year NITRA is celebrating its Golden Jubilee Year (1974-2024). In this moment of great pride, the management of NITRA acknowledges its patrons, clients, Govt. of India, Govt. of Uttar Pradesh and all those who have contributed to NITRA's glorious journey of 50 years. Besides, to commemorate this great journey, NITRA published a series of 13 Golden Jubilee Booklets (NOTTES) on different segments of technical textiles.

I am very happy to say that during this reported period, NITRA was once again awarded the CII Industrial Innovation Awards 2024 for third consecutive years. NITRA is ranked amongst the Top 5 Innovative Research Institutes amongst all research institutes in India by India's leading industry body Confederation of Indian Industry (CII). NITRA management duly acknowledges the contribution of its esteemed patrons and all other associated with NITRA for this outstanding achievement.

During this period NITRA made a significant presence at Bharat Tex 2025 at Bharat Mandapam, New Delhi wherein Hon'ble Prime Minister of India Sh. Narendra Modi ji visited NITRA pavilion along with Sh. Giriraj Singh, Union Minister of Textiles, Govt. of India. The Hon'ble Prime Minister showed keen interest on NITRA developments and discussed on various NITRA innovations with Dr. M. S. Parmar, Director General, NITRA. The Hon'ble PM was particularly very appreciative on NITRA's breakthrough project on milkweed fibres.

In another important event during this period, NITRA hosted the 62<sup>nd</sup> JTC, a jointly organized technical conference of India's premier TRAs at its campus in Ghaziabad. For the first time in history of JTC, scientists from all eight TRAs together presented 26 papers on conventional and technical textiles. Sh. Giriraj Singh, Hon'ble Union Minister for Textiles graced the occasion as Chief Guest. The textile minister inaugurated this mega conference and exhibition related to R&D developments by TRAs. Besides, he also inaugurated new Fibre Spinning Plant, Non-woven Plant and Melt Spinning Lab in NITRA. The chief guest was particularly satisfied with NITRA's R&D and new product developments in the area of Protective & Automotive Textiles.

We are happy to announce that patent for "An improved method for processing sunnhemp (Crotalaria Juncea) plants to produce fine-grade fibers" has been filed during the reported period. NITRA also transferred the technology of Molten Metal Splash Resistance Fabric to Mahavir Spin Fab. In addition, NITRA has signed 12 no. of MoU during this fiscal year.

Friends, I feel happy to inform that during the reported period NITRA scientists have carried out 10 R&D projects out of which 3 are completed and 7 are in the progress. As many as 50 research papers are published and presented by NITRA scientists. NITRA also released 15 technical publications during the reported period. The other activities of NITRA i.e. technical consultancy, quality evaluation, third party inspection and manpower training have also been very satisfactory during the last one year.

NITRA's academic wing NITRA Technical Campus (NTC) has also done well during the reported period and successfully conducted three B.Tech. programs on Textile Technology, Computer Science & Engineering and Computer Science & Engineering (AI&ML). This year the ninth batch of students passed out with excellent results and the students are also well placed in leading textiles and IT companies across India. We are also happy that for the eighth consecutive year our students featured in university Top 10 in the textile category and won medals.

While I conclude, I express my sincere thanks to the textile and garment industry, Ministry of Textiles, Gol, National Technical Textile Mission, Ministry of Agriculture and Farmers Welfare, Gol, U.P. State Government and various para-military forces for patronizing NITRA's facilities by availing its wide range of services. I assure that NITRA would continue to serve all its stakeholders in most fruitful manner.

**VIDIT JAIN**

## FROM THE DIRECTOR GENERAL'S DESK



During the financial year 2024-25, NITRA has done commendable work to support the Indian textiles & garment industry. Following are the highlights:

### Activities at a glance (2024-25)

<b>R&amp;D</b>		<b>Clientele</b>	
Projects completed	03	Clients served	1327
Projects ongoing	07	New clients inducted	578
Research papers	50		
Books	15	<b>PLSCs</b>	
		Technical assistance/consultancies	98
<b>Consultancy services</b>		Design developed	13
Inspection Services	100	Liaison visits/Survey carried out	1092
Technical consultancies	28	(No. of units covered)	
Technical opinions & defect analysis	19	Samples tested	2921
		Persons trained	451
<b>Testing services</b>		Clients served	595
Quality evaluation in NITRA labs	11225	New clients added	296
<b>Training services</b>			
Manpower training programs	24		
Personnel trained	1448		

### 1. Research & Development Cell

Government Sponsored Completed Projects:

- ❖ Development of 3D High Performance Knitted Sports Textiles with Thermo-physiological Comfort and Impact Protective Properties
- ❖ Development of Crop Cover, mulch, soil protection fabrics and other products using Sunnhemp and Banana Fibre

Government Sponsored On-going Projects:

- ❖ Socio economic development of SC/ST by providing training, technology and market to convert local resources to industrial products
- ❖ Development of Ceramic and UHMWPE Textile Based Hybrid Polymer Composite Armour (Jointly with MNIT, Jaipur)
- ❖ Development of flame retardant Nylon 66 yarn/ fibre indigenously

Publication: 14

Technical Consultancy: 8

Training Program: 3

## 2. Chemical & Quality Evaluation Division

Government Sponsored On-going Projects:

- ❖ Cellulose based indigenous high Clo value and low density surface modified natural fibre for developing thermal layers of extreme cold weather clothing
- ❖ Development of Specialized Firefighting Suit
- ❖ Development of Indigenous state of the art Instruments for protective textiles

Proposed Project:

- ❖ To Develop Protective Work Wears for Sewage and Sanitary Workers

Publication: 27

Training Program: 3

## 3. Engineering Division

Technical Consultancy: 16

## 4. Environmental Engineering Division

Publication: 1

Training Program: 1

## 5. Garment Centre

Government Sponsored Completed Project:

- ❖ Study of safety and performance requirements of fire hoods for firefighter

Publication: 2

Training Programs: 11

Technical Consultancy: 1

## 6. Marketing & Publication Division

Publication: 1

## 7. Mechanical Processing (Spg. &Wvg.) Division

Publication: 4

Technical Consultancy: 6

Inspection: 100

## 8. Physics & Quality Evaluation Division

Inspection: 4

Training Program: 2

Publication: 1

## 9. Software Development Centre

Publication: 10

Training Program: 10

## 10. Polymer & Technical Textile Division

Government Sponsored On-going Project:

- ❖ Study on quality, performance and constructional parameters of Headliners for Automobiles

Proposed Project:

- ❖ Development of Flame Retardant micro glass beads-based Retro-reflective material

Publication:	1
Inspection:	40
Training Program	3

Note: The training programs/consultancies/inspection activities are carried out jointly by members of different departments.

### Quality Evaluation at NITRA Laboratories

Altogether 11,225 samples were tested at NITRA's NABL accredited laboratories during 2024-25. Following is the laboratory-wise break up for the same:

Physical Quality Evaluation Laboratory	-	5,050 samples
Chemical Quality Evaluation Laboratory	}	- 4,470 samples
Heat & Flame Testing Laboratory		
Polymer & Technical Textiles Laboratory	-	997 samples
Environment & Eco Laboratory	-	378 samples
Microbiology Lab	-	330 samples

In addition to above, 19 fabric defect/damage analysis was carried out in various NITRA laboratories. More than 300 R&D samples were also tested in PQE and CQE labs.

### Publications

In the year under review, 50 research & technical papers and 15 booklets are published/presented in technical journals and forums.

**Memorandum of Understanding (MoU) signed**

S.No.	Name of the Partner	Date of Signing MoU	Broad Purpose of MoU
1	M/s. Tantu Red River Projects, Guwahati, Assam	09.04.2024	Technology Transfer for Extraction of Pineapple Fibre
2	M/s. North Eastern Handicrafts & Handlooms Development Corporation Ltd (NEHHDC), under Ministry of Development of North Eastern Region (MDONER)	02.05.2024	To work jointly on mutually agreed textile projects on sustainable fibres for their extraction / regeneration, processing and product development activities.
3	M/s. Sahifab Private Limited	26.07.2024	Development and commercialization of industrial hemp pultrusion cord and composites" sanctioned under GREAT scheme
4	M/s. Dienes Apparatebau GmbH	23.08. 2024	Setting up a plant for commercial production of Viscose fibre using LYOCELL process
5	M/s. Jindal Fibres Pvt. Ltd.	29.08 2024	Development of various types of thermal layers using different nonwoven fabric-making techniques, and testing activities
6	M/s. XLEAP Care Pvt. Ltd., New Delhi	29.08. 2024	Development and commercialization of flushable sanitary products
7	M/s. Rado Industries Ltd	31.08 2024	Development of aluminized outer layers using various types of base fabric and techniques of fabric aluminizing.
8	M/s. Welspun Living Ltd. (formerly Welspun India Ltd.)	18.12.2024	Application of weed fibres in different products
9	M/s. Sahifab, Delhi	19.12.2024	Product Development at Flax Spinning Plant at NITRA, Ghaziabad under GREAT scheme of NTTM.
10	M/s. RSWM Limited, Gulabpura, Bhilwara as project associate /industry partner.	30.12.2024	To jointly work on textile projects on sustainable fibres for their extraction /regeneration, processing and product development activities
11	M/s. Frontstream Bio Energy Farmer Producer Company Limited, Gorakhpur	04.01.2025	Processing of PARALI fibre.
12	M/s. Vijya Wellness Biosciences LLP, New Delhi	31.01.2025	Processing of wool fibre and blending it with industrial hemp fibre.

### **Technology Transfer**

- ❖ NITRA Transfers Technology of Molten Metal Splash Resistance Fabric to Mahavir SpinFab Private Ltd., Kanpur on December 31, 2024. NITRA Entrusts the Manufacture and Sale of the Development through the Agreement.

### **Patent Applied**

- ❖ An improved method for processing sunnhemp (*Crotalaria Juncea*) plants to produce fine-grade fibers Application No 202411073760 dated 30.09.2024

### **Power loom Service Centres**

In order to strengthen the decentralized power loom sector, NITRA rendered various value-added services through eight Power Loom Service Centres located at Tanda, Kanpur, Meerut, Gorakhpur, Varanasi (all in U.P.), Panipat (Haryana), Ludhiana (Punjab) and Bhilwara (Rajasthan). (For details refer chapter Power loom Service Centres).

### **Important Events and Happenings during 2024-25\***

- ❖ Sh. Narendra Modiji, Hon'ble Prime Minister of India, visited NITRA stall in Bharat Tex 2025 at Bharat Mandapam on Feb 16, 2025.
- ❖ Sh. Giriraj Singh, Hon'ble Minister of Textiles, Government of India, visited NITRA stall at Bharat Tex 2025, Bharat Mandapam, Pragati Maidan, New Delhi on Feb 14, 2025.
- ❖ Sh. Vidit Jain, JMD, Pasupati Spg. & Wvg. Mills Ltd. took over as NITRA's Chairman .
- ❖ Sh. Sandeep Hora, Dy. Chairman, NITRA visited NITRA stall at Bharat Tex, Bharat Mandapam, Pragati Maidan, 2025 on Feb 14, 2025.
- ❖ African delegates visited NITRA stall at Bharat Tex 2025, Bharat Mandapam, Pragati Maidan, New Delhi on Feb 15, 2025.
- ❖ German Delegates visited NITRA stall in Bharat Tex 2025 and Appreciate NITRA's Developments in Milkweed Fibres on Feb 15, 2025.
- ❖ Hon'ble Union Minister for Textiles and Chairman ISRO visited NITRA Pavilion on Aug 21, 2024.
- ❖ NITRA ranked among Top Five Innovative Institutes in India by CII.
- ❖ Sh. Giriraj Singh, Hon'ble Minister for Textiles, Govt. of India, graced 62<sup>nd</sup> Joint Technological Conference (JTC) at NITRA.
- ❖ Hon'ble Minister of State for Textiles, Sh. Pabitra Margherita felicitated Dr. Arindam Basu, DG NITRA, in CITI Textile Sustainability Awards 2025 function organized by CITI at Bharat Tex 2025, Bharat Mandapam, Pragati Maidan, New Delhi on February 17, 2025

- ❖ Sh. Giriraj Singh, Hon'ble Minister for Textiles, Govt. of India met Director, NITRA and Appreciated NITRA's R&D Development.
- ❖ 25<sup>th</sup> RAC meet held at NITRA.
- ❖ Dr. Arindam Basu, Director General, NITRA gave special address in 2<sup>nd</sup> Conference on Technical Textiles at PHD House on 3<sup>rd</sup> February 2025.
- ❖ Dr. Arindam Basu, DG NITRA, moderated session on "Mapping Good Practices from Farm to Fashion" in CITI Textile Sustainability Awards 2025 function organized by CITI at Bharat Tex 2025, Bharat Mandapam, Pragati Maidan, New Delhi on February 17, 2025.
- ❖ Dr. M.S. Parmar, Director, NITRA, participated as one of the Panelists in a Webinar on "Mission for Cotton Productivity".
- ❖ NITRA-NJB organized joint seminars in New Delhi and Ludhiana.
- ❖ NITRA Technical Campus became member of Computer Association of India.
- ❖ Dr. B.K. Sharma, Director, NITRA Technical Campus chaired Technical Session on 4<sup>th</sup> International conference on Advancement in Electronics & Communication Engineering, RKGIT, Ghaziabad on November 23, 2024.
- ❖ Dr. Nidhi Sisodia, Sr. Scientific Officer, NITRA chaired Technical Session on "Natural Fibres for Health and Wellness" on 28<sup>th</sup> January, 2025 and Receives Award in National Symposium on "Threads of Heritage: Exploring Traditional Textiles and Natural Fibres" organized at the College of Post-Graduate Studies in Agricultural Studies (CPGS-AS), Barapani, Shillong, Meghalaya.
- ❖ 19<sup>th</sup> Convocation Ceremony held at NITRA on Sep 17, 2024.
- ❖ NITRA Observed World Environment Day on June 5, 2024.
- ❖ NITRA Observed International Yoga Day on June 21, 2024.
- ❖ NITRA Technical Campus Organized Blood Donation Camp.
- ❖ NITRA Technical Campus Celebrated 'National Startup Day' on Jan 16, 2025.
- ❖ Dr. B.K. Sharma conducted Ph.D. viva voce of SRM Research Scholar and Sharda University Research Scholar on July 7 & Dec 20, 2024 respectively.
- ❖ Dr. B.K. Sharma attended Advisory Board Meeting.

- ❖ Dr. B.K. Sharma took over the charge of Director, NITRA Technical Campus on March 1, 2025.
- ❖ Dr. B.K. Sharma, Director, NITRA Technical Campus moderated session on "Industry Academia Collaboration: Road ahead in Global AI Summit 2024" Bennett University Greater Noida on 6<sup>th</sup> September 2024.
- ❖ B.Tech. CSE branch student won The Best Paper Award in National Seminar at IPEM group of Institutes, Ghaziabad.
- ❖ B.Tech. CSE branch student Bagged 2<sup>nd</sup> position in Navtarang- 2024 inter college cultural fest held at ITS College, Mohan Nagar.
- ❖ B.Tech. CSE and CSE (AI&ML) branch students took part in 'Smart India Hackathon 2024.
- ❖ B.Tech. Textile Technology students attended 2<sup>nd</sup> Conference on Technical Textiles on 3<sup>rd</sup> February, 2025, PHD House, New Delhi.

*\*For details please refer chapter Important Events and Happenings during 2024-25.*

**Dr. M.S. PARMAR**

## NITRA's SERVICES TO ITS CLIENTS - AT A GLANCE

NITRA always believes in meeting customer requirements as a result of which it is able to retain most of its existing clients and at the same time add new clients. Many clients have availed NITRA's services time and again. Data given below provides the information related to services rendered by NITRA to its clients during 2024-25.

Total Clients served	:	1327
New Clients added	:	578

Approx. 13% of the clients at NITRA have availed services 5 times or more during the year.

- **Units availed services more than 50 times in the year**

Unit	No. of Services
Rites Ltd., Faridabad	95
GBTL Ltd.	75
Shingora Textiles Pvt. Ltd.	58
Arihant Spinning Mills	55

- **Units availed services between 30-50 times in the year**

Unit	No. of Services
Vardhman Fabric- MP	50
Continental Surface Solution India Pvt. Ltd.	50
Aeronav Industrial Safety Appliance	44
Wool Research Association	43
KDP Enterprises.	38
khadi Dyers	38
Star Safety Hub	36
Sheela Foam Ltd.	35
Pilkhuwa Water Proofing Co. Pvt. Ltd.	33

- **Total number of services availed by clients at NITRA**

Testing	3193
Consultancy/Training etc.	645
Total Services availed	3838

## **ORGANISATION: FINANCIAL PERFORMANCE & MEMBERSHIP**

### **Government Grant**

Ministry of Textiles (MoT), Govt. of India, deserves special thanks for helping NITRA by releasing timely grant for recurring expenditure. MoT released a grant of Rs.200.00 lacs towards recurring expenditure.

NITRA received Rs.221.40 lacs grants for six running NTTM projects; Rs.9.96 lacs grant from National Jute Board for two running projects; and Rs.29.57 lacs for one running project from Department of Science & Technology. NITRA also received grant of Rs.122.00 lacs for 2023-24 from Ministry of Textiles for the eight Power loom Service Centres.

### **Council of Administration**

The management of the Association is entrusted to the Governing Council. At the 48<sup>th</sup> Annual General Meeting of the Association held on 17<sup>th</sup> September 2024, the new Council of Administration was constituted as given in Annex-1. The Council met three times during the year.

### **Finance & Administrative Sub-committee**

The Finance & Administrative Sub-Committee continued to look into the administrative and financial matters. All matters relating to administrative procedures, staff, matters relating to the members of association and financial matter were brought before this committee for discussion, guidance and approval. This committee met twice during this period. A list of the members of Finance & Administrative Sub-Committee is given in Annex-2.

### **Research Advisory Committee**

25<sup>th</sup> Research Advisory Committee meeting was held on 14<sup>th</sup> December 2024. This is an annual event at NITRA with a view to assess the progress of NITRA's ongoing R&D projects and to make necessary modification on those, if required. The committee also suggests areas to be considered for NITRA's future R&D activities. A list of the members of Research Advisory Committee is given in Annex-3.

### **NITRA Membership**

As on 31<sup>st</sup> March 2025, 145 textile and garment units are registered as NITRA members. The list of members is given in Annex-4.

## RESEARCH & DEVELOPMENT ACTIVITIES

As a policy matter, the aim for NITRA's research and development activities is to help the industry. So, at NITRA, ideas for most of the R & D projects are conceived only after interaction with the industry. Need based projects are earmarked for carrying out research and special emphasis is given to those projects which have industry acceptance as well as commercial viability.

In the year 2024-25, NITRA worked on ten projects. Out of which three have been successfully completed during the period whilst work is in progress for the seven projects. One project was recently sanctioned.

Work done in the area of R&D during the year 2024-25 is categorized as below:

### 1. GOVERNMENT SPONSORED PROJECTS

#### 1.1 Completed Projects

- (i) Project Title** : Development of Crop Cover, mulch, soil protection fabrics and other products using Sunnhemp and Banana Fibre  
(Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India)
- Duration** : Started in Feb. 15, 2023 and completed in 15<sup>th</sup> October, 2024 (18 months + 2 months extension)
- Objectives** :
- To develop standard extraction processes for Sunnhemp & Banana fibres and optimize
  - To develop yarn from extracted fibre in 100% and blends using developed hand/semi mechanized spinning and commercial spinning machine
  - To evaluate the physical & chemical properties of extracted fibres and develop yarn using standard test method.
  - To develop value added products (Geo and agro textiles product), take field trials and their commercialization
- Research out come** :
- Optimization of extraction process of banana and sunnhemp fibres has completed.
  - Development of yarn in different blends for banana and sunnhemp fibres on commercial spinning system has been completed.
  - Evaluation of various physical & chemical properties of developed samples as per standard test method has been completed (Fig. 1.1, 1.2 & Table-1.1).
  - Nine nonwoven and woven samples from banana and sunnhemp fibres sample (100% and blend) were developed for mulch mat and crop cover.
  - Cultivation of sunnhemp crop has been done in 1 acre of land inside NITRA campus and studied the effect of duration on fineness, yield and strength of extracted fibres.
  - Nonwoven needle punch machine, Banana cutter, Fibre extractor and Fibre opener machines have been received and commissioned.

- Effect of accelerated weathering on sunnhemp and banana mulch mats has studied.
- Prototype samples have been developed.
- Needles punch nonwoven Mulch mats, Crop cover and Soil erosion fabrics have been developed at NITRA & evaluated as per the standard test methods.
- Field trail of developed samples of mulch have completed at KVK on Peas and Bittergourd crop at Jind Haryana and Effect of mulch on properties of soil has been checked (Fig. 1.3).
- Project work and Project model was displayed at the NTTM stall, Bharat Tex 2024 (February 26-29, 2024).
- Study of impact of biodegradable mulch (banana/sunnhemp) on Soil Health was completed. Nitrogen (N) levels increased from 230 to 234, reflecting a 1.74% improvement. Phosphorus (P) levels saw a more significant increase, rising from 12.5 to 12.9, which is a 3.2% improvement.
- The effect on the Water Retention Capabilities of soil by the use of organic mulch was calculated.
- Accelerated weathering test and the effect on Water Retention Capabilities of soil by use of organic mulch were evaluated and found good results.
- The comparative evaluation of the effect of weed growth by using biodegradable mulch (developed from Sunnhemp & Banana fibres) against conventional methods has shown that the use of banana and sunnhemp-based biodegradable mulch effectively controlled weed growth, reducing weed density from 80 weeds per square meter to just 5.
- Patent for "An Improved Method for Processing Sunnhemp (*Crotalaria Juncea*) Plants to Produce Fine-Grade Fibers" has been applied under provisional patent number 202411073760 dated 30.09.2024.
- Honourable Textile Minister Shri Giriraj Singhji visited the Sunnhemp cultivation site.

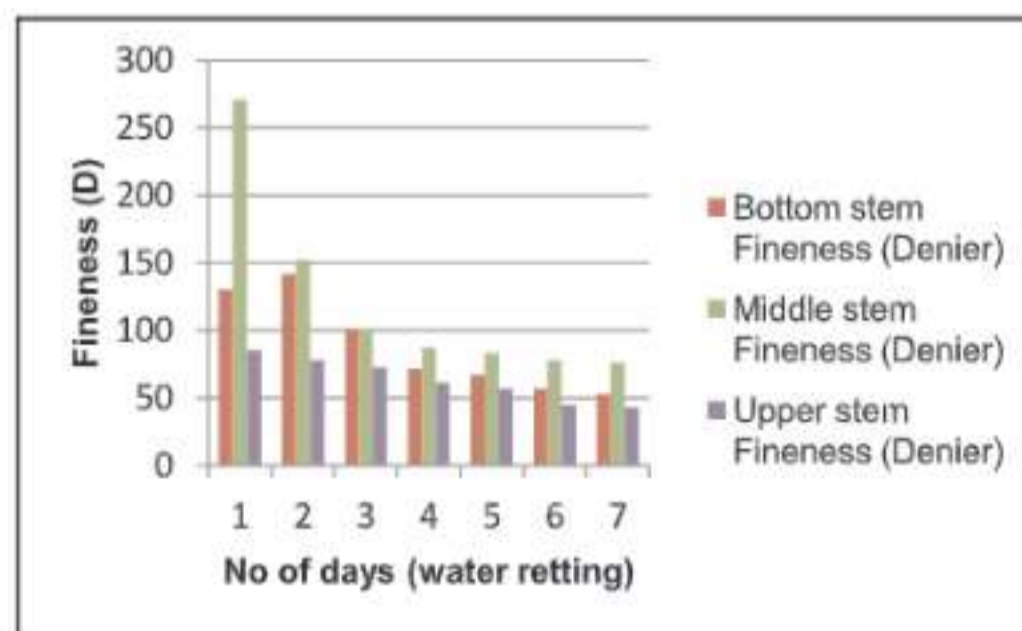


Fig. 1.1: Effect of water retting on fineness of sunnhemp fibres

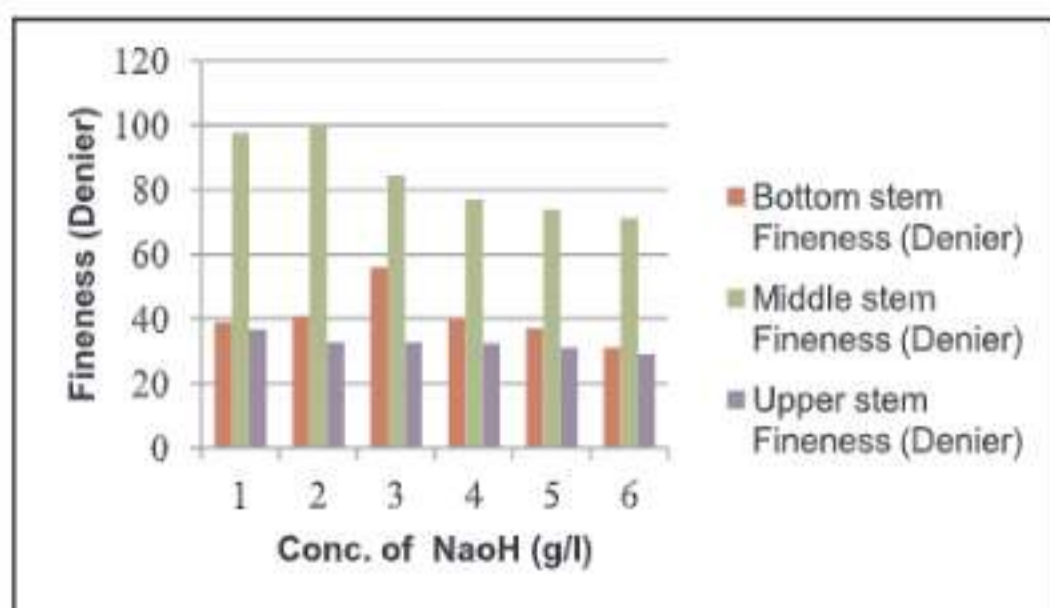


Fig. 1.2: Effect of chemical extraction on fineness of sunnhemp fibres

Table-1.1: Fibre Properties		
Properties	Sunnhemp Fibre	Banana fibre
Cellulose content (%)	69-71	60-65
Lignin content (%)	4-5	6-8
Density (g/cc)	1.22	1.28
Bundle Strength(g/tex)	35-45	20-28
Fineness(Denier)	30-40	25-35
Moisture Regain (%)	13.62	12.24
Water holding capacity (%) IS 14944	87	86
Biodegradability Test (Soil Burrial) (IS 1623)	80 Days	75 Days



Fig. 1.3: Application of mulching at KVK Jind Haryana

- (ii) Project Title** : Development of 3D High Performance Knitted Sports Textiles with Thermo-Physiological Comfort and Impact Protective Properties. (Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India)
- Duration** : Started in Feb. 15, 2023 and completed in November, 2024 (18 months + 3 months extension period)
- Objectives** :
- Standardization for development of 3D weft knitted spacer fabric for its suitability for manufacturing of sportswear garments and components by varying the material types, material fineness, spacer yarn density, spacer fabric thickness
  - Standardization of process for development of micro-gel in order to improve the impact resistance in the sportswear fabrics
  - Standardization of treatment for application of micro gel on the developed 3D weft knitted spacer fabric
  - Evaluation of properties such as compression, elasticity, breathability and impact resistance
  - Optimization of structure and parameters of knitted fabrics based on primary and secondary data and development of sportswear garments and components at pilot level
- Research Outcome** :
- A setup for flat-bed knitting machine was purchased and installed to develop 3D spacer knitted fabrics as shown in Figure 2.1
  - A silica nano-particles and PEG-200 was used to prepare Shear thickening fluid at 5 different concentrations (20%, 25%, 30%, 35% and 40%) using mechanical stirrer and sonicator. The rheology of all the prepared STFs is given in Figure 2.2 which shows that STF with 40% concentration gives the best shear thickening properties.

- 3D Spacer knitted fabric was coated with 40% concentrated STF.
- Three layered structure was developed by arranging nylon spacer knitted fabric in the top layer, STF coated nylon spacer fabric in the middle layer and viscose spacer fabric in the bottom layer.
- Comfort properties, Impact energy absorption and Puncture resistance performance of all the developed three layered structure with STF impregnation in the middle layer were evaluated.
- The results indicate that the developed samples absorb sufficient amount of impact energy and also showed better thermal comfort in terms of thermal conductivity, air permeability and water vapor permeability as compared to the existing foam.
- Final project report has been submitted to NTTM, Ministry of Textiles, Govt. of India.



Fig. 2.1: Developed 3D spacer knitted fabric samples

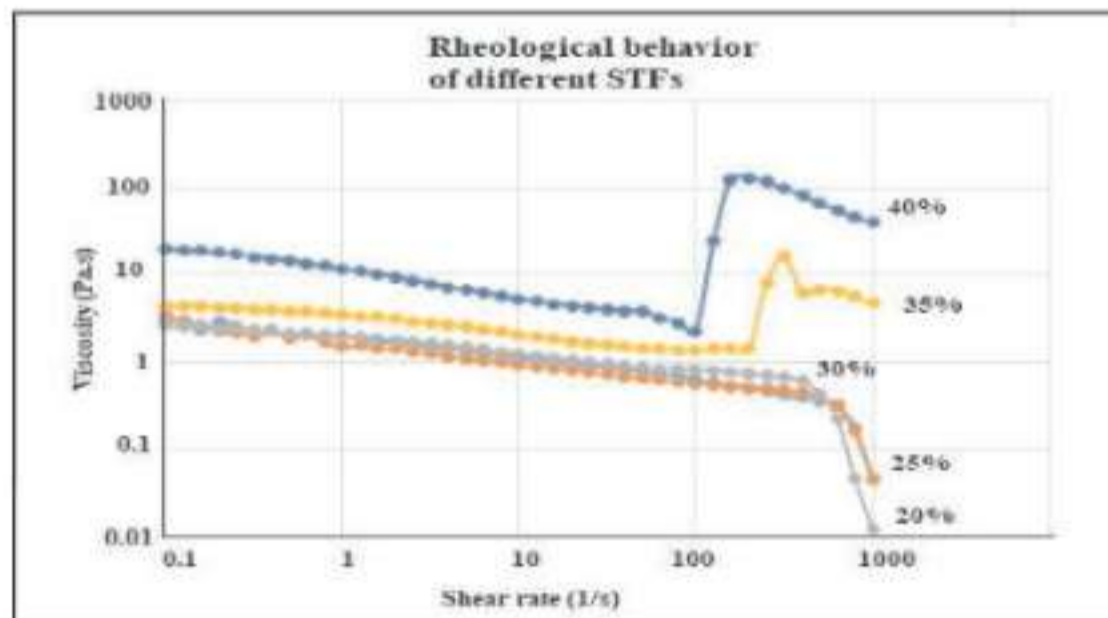


Fig. 2.2: Rheological properties of prepared shear thickening fluid

- (iii) Project Title** : Study of safety and performance requirements of fire hoods for firefighter (Sponsoring Agency: BIS, New Delhi).
- Duration** : Started in June, 2024 & completed in Nov, 2024
- Objectives** :
  - Procurement of various samples currently used in the industry
  - Evaluation of collected samples on required parameters
  - Determination of the performance and design requirements of fire hoods
  - To compile the data
- Research Outcome** : Firefighter hoods are crucial for protecting the neck, ears, and exposed skin not covered by helmets, collars, or breathing apparatus face pieces. They must be compatible with other protective gear.

**Standardization Gap:** Currently, there are no specific technical or design standards for fire hoods in India.

- Technical and design requirements were explored using primary and secondary data.
- Fire hood samples were collected and evaluated for chemical and safety performance based on EN13911 standards.
- Testing was conducted in two NABL accredited laboratories, with all samples meeting the standard's test parameters.
- Based on survey findings and test results, a fire hood design with construction details was proposed, including three different sizes for better fit and performance.
- The Northern India Textile Research Association has submitted a draft standard for firefighting hoods to the Bureau of Indian Standards (BIS). This draft covers:
  - Minimum safety requirements
  - Design requirements
  - Test methods
- Project has been completed and draft report is submitted

## 1.2 ONGOING PROJECTS

- (iv) Project Title** : Socio-economic development of SC/ST by providing training, technology and market to convert local resources to industrial products (Sponsoring agency: DST, Govt. of India).
- Duration** : Started in May 2023 (24 months) and extended for 06 months upto Oct 2025
- Objectives** :
  - Infrastructure development and technology transfer for dye extraction, fiber extraction, gum extraction, hand spinning and natural dying process
  - To train the local SC/ST population for product development using available infrastructure

- To carry out Research and development using local resources of that area to convert them in to useful product
- Evaluation of developed products and modifications
- To train and connect the local artisans with the buyers of their product using modern tools

**Progress of work**

- A comprehensive Sample survey was completed in Dwarahat and Hawalbagh Blocks and identified the natural resources available in the region.
- Suitable Training centres were identified and they were hired on rent in both Hawalbagh and Dwarahat blocks. Training centres were named as "NITRA UTTRAKAHND PRASHIKSHAN KENDRA".
- Procurement and fabrication of Fibre extractor /Decorticator Padding mangle, Carding lab model, Draw frame, Ring frame, Hank dyeing machine, Handloom and Jigger dyeing machines have been completed.
- Techniques for the extraction of fibres from Sisal, Bhimal, and Nettle, Pine needle plants were developed and optimized.
- Trainees were provided with basic knowledge about the extraction process of natural fibres, process of yarn, fabric making and dyeing (Fig. 4.1) using natural fibres available locally, such as Sisal, Bhimal, and Nettle etc.
- Basic knowledge was provided to the trainees about the yarn and fabric making process by the natural fibres like Sisal; Bhimal, Nettle, Pine and wild hemp etc. available in the local region and how the local people can utilize them to generate self-employment.
- A 15-days training program was conducted for three groups of trainee on fibre extraction, yarn development and dye extraction & application. Furthermore physical and chemical analysis of extracted fibres were done.
- Training program on fabric development was conducted at Hawalbagh centre.
- Training program on hank dyeing was conducted.
- A health camp was organised at Dwarahat and self help group "Dunagiri Samajik Sahayata Samiti" has been formed at Dwarahat Uttarakhand.
- A one month training program was organised at Dwarahat centre for product development and marketing skills. The training program was conducted by Shreemayee Weaves, Kolkata as expert consultant.
- DG, NITRA also visited the training sites and took the feedback.



Fig. 4.1: Training program on Natural dyeing

**(v) Project Title** : Development of Ceramic and UHMWPE Textile based Hybrid Polymer Composite Armor (Jointly with MNIT, Jaipur)  
(Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India)

**Duration** : Started in Jan 2024 (36 months)

**Objectives** :

- Development of technology for the production of Ceramic – FRP Composite Armor for protection against small caliber ammunitions (12.7/ 14.5\* mm AP) [400 mm x 400 mm x (50-70mm)]
- Development of novel computational model for the impact events on FRP-Ceramic Hybrid composite considering scale up parameters such as (a) upgradation for 14.5 mm AP (b) multi-hit capabilities (c) design of novel weaving structure and subsequent validation for maximum ballistic efficiency of the composite
- Development of optimum microstructure and composition for maximum ballistic efficiency of SiC ceramics
- Development of high impact resistant woven textile (UHMWPE and hybrid with glass & carbon fibers), ceramics and layer hybrid composite thereof

**Progress of work** :

- MNIT has started simulation for this project. NITRA has supplied various data regarding fabric properties & fibre properties.
- Based on the simulation results NITRA produced 2D & 3D fabrics and supplied the same to MNIT for preparation of composites & further trials.
- Trials at MNIT, Jaipur are going on.

**(vi) Project Title** : Development of Specialized Firefighting Suit  
(Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India)

**Duration** : Started in Jan,2023 (24 months + 12 months extension) and to be completed in Dec, 2026

- Objectives** :
- To study existing Specialized Fire Fighting Suit for fire entry available in a developed country with respect to their suitability to protect users from fire hazards and other physiochemical properties
  - Development of multilayered fabrics using various structures, fibre composition, and finishing/coating/ lamination applications in the manufacturing of fire entry suits
  - To evaluate multilayered fabrics for their performance, safety (fire hazard) and other physiochemical properties as per standard
  - Development of a prototype Specialized Fire Fighting Suit

- Progress of work** :
- Specialized fire fighter suit has been designed and developed (Fig. 6.1) displayed at Bharat Tex 2025.
  - A state-of-the-art Fire Manikin Testing Facility will be ready to provide services in the month of July 2025.
  - Technology of the developed Specialized fire fighter suit is transferred to M/s. System 5S Pvt. Ltd.



Fig. 6.1: Specialized Fire Fighter Suit and its display at Bharat Tex 2025

**(vii) Project Title** : Development of flame retardant Nylon 66 yarn/fibre indigenously (Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India)

**Duration** : Started in Feb. 15, 2023 (36 months)

- Objectives** :
- Procurement of Adipic acid, Hexamethylene Diamine, Nylon 6,6 pellets along with suitable Flame Retardant chemicals
  - Development of filament yarn/fibre using Nylon 6,6 in pilot plant and evaluation of properties
  - Optimization of process parameters of fibre/yarn manufacturing as per the end-user requirement and evaluation of various properties

and comparison with the existing similar fibre/yarn

- Development of fabric samples using newly developed fibres and evaluation of their properties like tensile & tear strength, abrasion resistance, flame retardancy etc.

**Progress of work**

- Adipic acid and a flame-retardant chemical have been procured.
- A setup for melt spinning unit containing melt spinning machine, drawing machine, and vacuum oven has been purchased and installed.
- The condensation polymerization reactor was setup and the polymerization of the Nylon 66 is done.
- Optimization of the polymerization reaction is going on to produce high molecular weight Nylon 66 (PA66).
- Nylon 66 polymer filament was successfully produced through melt spinning machine.
- Melt spinning lab setup:  
The melt spinning lab is consist of melt spinning unit, drawing unit, and vacuum oven. All the required machineries are procured and installed for the operations. Hands-on training in the machinery was taken by the scientist and project assistants. Vacuum hot oven has been used for conditioning the polymer pellets before spinning.
- Polymerization of Nylon 66:  
The condensation polymerization reactor is procured and installed for the polymerization process as shown in the Fig. 7.1 The polymerization of the Nylon 66 process was successfully developed and manufactured the Nylon 66 polymer. The patent was filed on 'Polymerization of Nylon 66 from monomers with a single reactor' (patent application number 202511034223, dated 8<sup>th</sup> April 2025).
- Filament production:  
PA66 filament yarn was successfully developed with installed melt spinning facilities and its melt spinning parameters are shown in Table 7.1.
- Testing of the samples:  
The nylon 66 plastic sample was tested for intrinsic viscosity, and melting point; also the filament yarn is tested for melting point. The results are confirming the polymerized sample is nylon 66 (given in Table 7.2).



Fig. 7.1: Condensation polymerization reactor set-up

Table 7.1: Melt spinning process parameters for PA66

Spinning Stages	Stages	Temp.	Speed [rpm]
1	Extruder 1	120	15
2	Extruder 2	245	
3	Extruder 3	260	
4	Metering Pump	265	15
5	Godet	80	40
6	Quenching	10	
7	Winder		300
	Mesh Used	100/80	

Table 7.2: Test parameters of the PA66 samples

Test parameter	Results
Intrinsic viscosity of plastic	0.59 dl/g
Melting point of plastic	256.7 °C
Melting point of PA 66 filament yarn	255.6 °C

**(viii) Project Title** : Cellulose-based indigenous high Clo value and low-density surface modified natural fibre for developing thermal layers of extreme cold climate clothing. (Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India)

**Duration** : Started in Feb. 15, 2023 (36 months)

**Objectives** :

- Extraction of fibres from identified weed plants available in different regions and evaluation of various properties.
- Surface modification of extracted fibres using nano finish and their analysis including thermal insulation.
- Manufacturing nonwoven fabrics of different thicknesses and structures using 100% extracted fibres as well as its blend with other fibres.
- Optimization of structure and thickness of nonwoven fabrics based on thermal insulation value as per the present defence specification.
- Developing extreme cold climate clothing as per the requirement of Indian Defence forces.

**Progress of work** :

- Milkweed fibre based various products were displayed at an exclusive section of milkweed fibre at the prestigious Bharat Tex 2025. The milkweed stall was visited by the Honourable Prime Minister, Sh. Narendra Modi ji and Hon'ble Union Minister for Textiles, Sh. Giriraj Singh ji (Fig.8.1).
- Fibre extracted from milkweed pods collected from various regions of North India.

- 4 quintals Milkweed floss/fibre extracted. Further, fibre extraction is under-process.
- Extracted milkweed fibre turned into woven, non- woven and 3D knitted spacer fabrics.
- Extracted milkweed fibre blended with wool and knitted fabrics developed.
- Effect of different lab grade solvents on hollowness of milkweed fibers was evaluated.
- Patent on "A process for preparing water repellent weed floss/fibre for preserving thermo-regulatory property thereof" (Application No: 202111055410 dated 30.11.2021) has been filed.
- Non-disclosure agreement (NDA) signed with M/s. Welspun Living Ltd. on application of weed fibres in different products on Dec. 18, 2024.
- Presentations were made by Dr. M.S. Parmar, Director & PI of the Project at M/s. Ganga Acrowools Limited for product development and diversification using milkweed fibre.



Fig. 8.1: Hon'ble Union Minister for Textile Sh. Giriraj Singh ji visited NITRA's exhibit on Milkweed fibre at Bharat Tex 2025

- (ix) Project Title** : Development of Indigenous State-of-the-art instruments for Protective Textiles. (Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India)
- Duration** : Started in April 2024 (24 months)
- Objectives** :
- To design and develop 3 instruments namely i) Radiant heat tester, ii) Convective Heat tester, iii) Contact heat tester
  - To take preliminary trials on the developed instruments to verify/optimize the suitability of the design and performance
  - To verify and validate the test results of the protective textiles

tested on the developed instruments by comparing with them the results obtained from imported instruments/reputed international laboratories

- Progress of work** :
- Literature Review of all the three instruments has been completed.
  - Design of all the three instruments has been completed.
  - The radiant heat tester is fabricated and evaluated (Fig.9.1 & Table 9.1). Fabrication of Contact Heat Tester is completed (Refer Fig. 9.2). Testing and the verification of results have been completed (Table. 9.2).
  - The Convective Heat Tester is also fabricated (Fig. 9.3). Testing and verification is in process.

### 1. Radiant Heat Tester Design:



Fig.9.1 : Fabrication of Radiant heat tester

Table 9.1: Radiant heat test- tested result

Test results from new indigenously developed instrument.			Test result from NITRA imported instrument		
QO=21.080		Qo=42.269		QO=21.269	QO=42.828
T12	8.9	6.3	T12	8.5	5
T24	15	9.4	T24	9.2	9.2
Qc	9.642	21.461	Qc	15.84	15.84
TF [-]	0.457	0.423	TF [-]	0.37	0.37
T24-T12	6.9	7.4	T24-T12	4.2	4.2
R[C/S]	3.422	6.92	R[C/S]	3.45	6.9526

## 2. Contact Heat Tester Design:

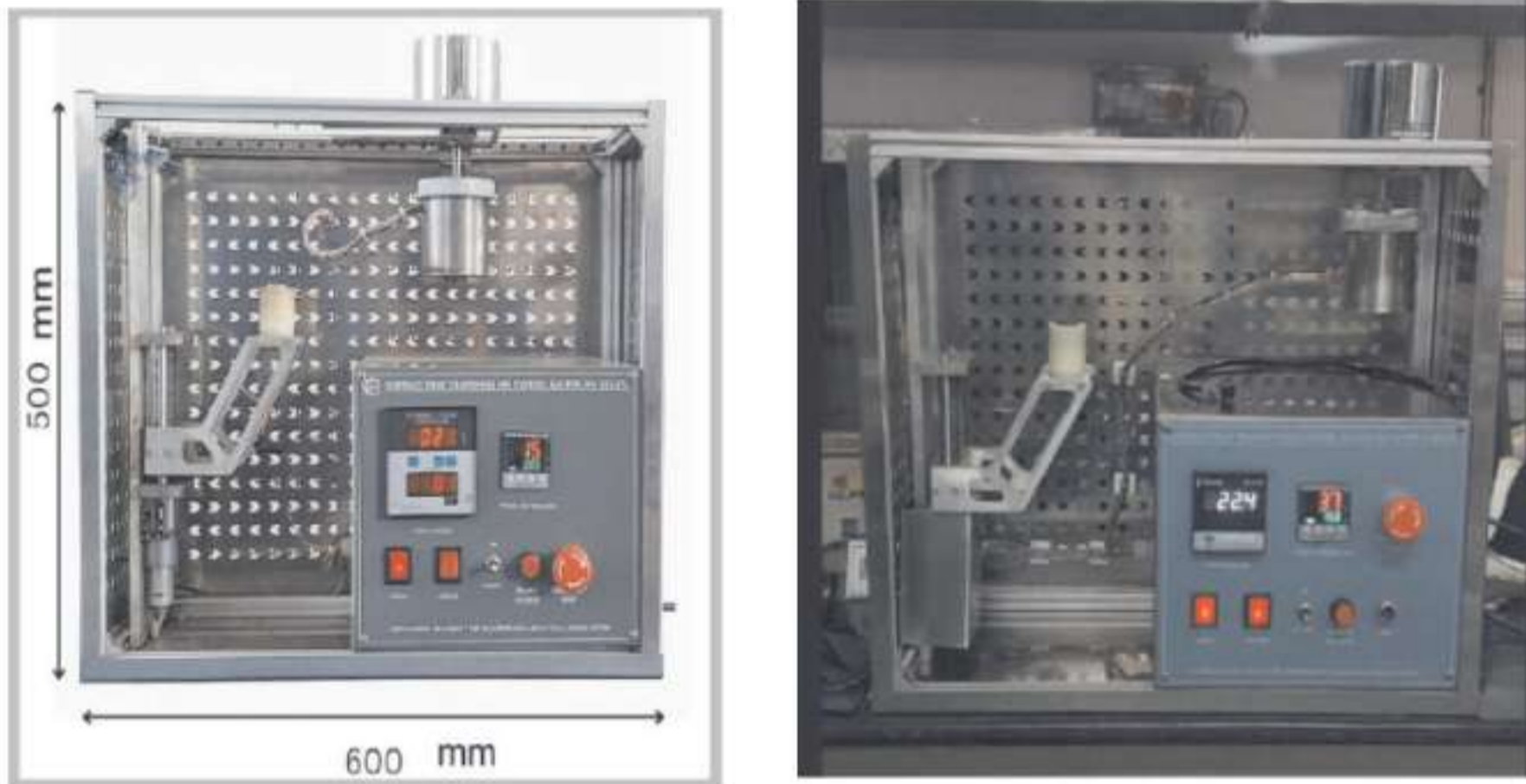


Fig. 9.2: Fabrication of Contact heat tester

Table 9.2: Contact heat test- tested result

Test results from new indigenously developed instrument			Time in second	Test result from NITRA imported instrument.			Time in second
Temperature of cylinder	Temp of calorimeter	10'c rise		Temp of cylinder	Temp of calorimeter	10'c rise	
150'C	26.4'C	36.4'C	21	150'C	26.48'C	36.49'C	20
200'C	26.8'C	36.6'C	15	200'C	26.96'C	37.15'C	16
250'C	26.8'C	36.8'C	11	250'C	26.62'C	36.13'C	14
500'C	28'C	38.3'C	7	500'C	21.5'C	31.3'C	7.5

### 3. Convective Heat Tester Design:



Fig. 9.3: Specification & design of fabrication of convective heat tester

- (x) Project title** : Study on quality, performance and constructional parameters of Headliners for Automobiles (Sponsoring Agency: BIS, New Delhi)
- Duration** : Started in June 2024 and to be completed in April 2025 (6 months + 5 months extension)
- Objectives** :
- To collect automobile headliners from various sources like OEM (small, medium and large scale) manufacturers, authorized workshops and dealers
  - To study and evaluate the various properties of the collected headliners for quality, performance and constructional parameters

- To analyze and compile the data into an analytical report

**Progress of work** : 

- Analysis based on quality, performance and constructional parameters of the collected headliner samples has been conducted for leading brands such as Maruti, Mahindra etc.
- Based on this study, three types of headliners have been categorized.
- A draft standard for automotive headliners has been formulated and submitted to BIS.
- Final project report is under preparation for concluding the project.

## 2. PROPOSED PROJECTS

Sponsored by NTTM, Gol

- ❖ Development of Flame Retardant micro glass beads-based Retro-reflective material

Sponsored by DST, Gol

- ❖ To Develop Protective Work Wears for Sewage and Sanitary Workers

## INSPECTION & CONSULTANCY SERVICES

Technical consultancy & inspection are another important aspect of NITRA's multifarious activities. NITRA provides assistance to the industry in the form of technical consultancy for resolving their operational problems. The areas of expertise where NITRA offers consultancy solutions are feasibility study, system certification, infrastructure set up, valuations, manpower rationalization, energy audits, water audit, and product/process & design development etc.

NITRA also offers third party inspection services to the industry.

Major areas of inspection & consultancy services offered during the period 2024-25 are given below:

### Inspection Services

- Third party inspection of Blankets, T-shirts, Gabardine, Coat combat, Serge, Woolen Jersey, Thermal vest, Angola shirtings, Cloth disruptive, Full Body Protector, Rucksack, Terry Towel, Rain Cape, Balaclava, Riot control helmet, Light weight ground sheet, Uniform cloths, Polycarbonate shield, Short Draver Cotton, Tie, Tent glacier, Wool/ Polymide blended flannel, Cold weather thermal, Thermal underpant, Barrack Sheet, Ribvest, Kit Bag universal, Cloth cotton, Sleeping bags etc.

### Consultancy Services

- Setting up of 1200 KLDZLD plant in Bhilwara
- Pollution prevention and effective waste management of Panipat Textile Cluster
- Energy audit
- Process Audit
- Manpower & Workload Study in Spg. Unit
- Plant/ Machinery & Equipment evaluation study based on health & ageing
- Valuation of fixed assets (Plant, Building & Machineries)
- Up gradation of 800 KLD ETP in Bhilwara, Rajasthan
- Modernization Required for Plant Machineries Focused on Performance, Health and Ageing
- Capacity verification of Winter Jacket for Delhi Police
- Trouble Shooting for CEPT

\*Inspection & Consultancy services undertaken in the year 2024-25 are given in Annex-8.

## TESTING SERVICES

Testing or quality evaluation is one of the most important activities in the entire value chain of textile and garment industry. NITRA offers a wide range of testing facilities for fibre, yarn, fabrics, garments, dyes, chemicals and effluent in its well equipped NABL accredited seven laboratories i.e. Physical lab, Chemical lab, Heat & Flame Testing lab, Polymer & Technical Textiles lab, Eco lab, Environment lab and Microbiology lab. NITRA continues to emphasize on doing accurate evaluation and delivering time-bound test results to its clients.

### PHYSICAL QUALITY EVALUATION LABORATORY

**No. of Commercial Samples Tested:** 5,050

In addition to this, around 150 R&D samples were also tested.

#### **Type of Samples Received:**

Cotton, Polyester, Viscose, Nylon, Polypropylene, Jute, Bichhue Ghas, Hollow Fibres, Wool, Polyester wetting, Leaf & bark fibres, Silk, Cotton and Blended yarn, Sliver, Cord, Ropes, Filament yarn, Sewing threads, Industrial threads, Kite flying thread, Lycra belt, Tape, Cotton & Blended fabric. National flags, Canvas, Automotive fabrics, Laminated fabrics, T-shirts, Vest, Drawers, Biref, Blanket, Jersey, Serge, Sarees, Cardigan, Gloves, Mosquito net, Pillow, Quilt, Furnishing fabric, Socks, Jacket, Felton cloth, Carpet, Webbing, Towel, Bed sheets, Wool top, Mat, Rain coat, Garments, Protective, Non-woven fabrics, Lycra yarn, Topper pad, Scarf, Pile fabric, Felt, Rugs, Foam, Laminated foam fabric, Caps, Geo grid, Filter fabrics, 3 layer breathable fabric, Composites, Geotextiles etc.

#### **Type of Tests Conducted:**

Fibre length, Denier, Strength, Tenacity, Crimp%, Fibre shrinkage, Fibre diameter, Fineness, Trash%, Neps/gm., Elongation, Cotton, Maturity, Fused Fibre, Yarn count, Yarn CSP, Twist, RKM, Hairiness, Uster Imperfections, Appearance Grade, Co-efficient of friction of yarn to yarn and yarn to metal surface, No. of filaments in yarn, Thermal shrinkage, Fabric/Garment's dimensional measurement, Thickness, GSM, Yarn count, Ends/picks, Coarse/Wales, Base/Biase, Fabric strength, Elongation, Tear & bursting strength, Stretch & Recovery, Puncture resistance, Seam strength/Seam slippage, Bond & Peel strength, Weave analysis, Stiffness, Abrasion, Pilling, Yarn on yarn abrasion, Yarn slub analysis, Crease recovery angle, Drape, Snagging, Pore size of filter media, Air permeability, Constant/variable load Elongation, Spirality in garments, Wool fineness, Fineness Grade of wool fibre, Fibre hollowness, Fabric streak analysis, Fabric sheet friction, Wide width tensile, strength, Blade cut resistance, Yarn/fabric type identification, Fabric defect analysis Resistance to penetration by synthetic blood/ Splash resistance for surgical mask; Differential pressure, mm H<sub>2</sub>O/cm<sup>2</sup> for surgical mask etc.

## **CHEMICAL QUALITY EVALUATION (CQE) AND HEAT & FLAME LABORATORY (H&F)**

**No. of Commercial Samples Tested:** 4,470

In addition to this, around 150 R&D samples were also tested.

### **Type of Samples Received:**

**CQE:** Fibres, Yarns, Fabrics, Garments, Technical Textiles (Protech, Nonwoven, Automotive etc.), Dyes & Chemical Auxiliaries, PPEs/ Coveralls/ Shoe cover, Surgical Mask & Gowns etc.

**H&F:** Personal protective clothing, Upholsteries, Automotive fabrics, Floor coverings, Fabric for Railways etc.

### **Type of Tests Conducted:**

#### **CQE:**

- Colour Fastness properties
- Wax Content/ Oil Content/ Blend composition etc.
- Total Colour difference, Yellowness/ Whiteness Index & Dye powder strength evaluation by Computer Colour Matching System/ UV-Spectrophotometer
- Various properties for automotive fabric
- Fluorescent& reflective tape, Flammability fabric, Waterproof material
- Synthetic Blood Penetration-Fabric/ Coverall/ Shoe cover
- Flammability for surgical mask, etc.

#### **H&F Lab:**

Ease of ignition of vertically oriented specimen, Flame spread properties of vertically oriented specimen, 45° (inclined) Flammability, Vertical flammability test, Horizontal flammability test, Limited flame spread test, Convective heat test, Radiant heat test, Molten metal splash test, Contact heat test, Impact of spatter test, Electrical resistance, High visibility, Ignitability of vertically oriented specimen, Flame spread vertically, Smoldering cigarette test, Match flame test PTTD, Oxygen index, Methanamine table test, Hot metal nut test, Vertically oriented specimen, Flame spread property of Blanket etc.

## **MICROBIOLOGY:**

**No. of Commercial Samples Tested:** 330

### **Type of Samples Received:**

**MICROBIOLOGY:** Fibres, Yarns, Fabrics, Garments, Technical Textiles (Protech, Nonwoven, Automotive etc.), Polymers, Helmets, Chemicals and Finishes etc.

### **Type of Tests Conducted:**

#### **Antimicrobial Evaluation:**

Antimicrobial Finishes on Textile materials: Assessment Staphylococcus aureus ATCC No 6538, -Klebsiella pneumonia ATCC No 4352; Antimicrobial Activity Assessment of Textile Materials: Parallel Streak method; Antimicrobial Activity Assessment of new carpet -Qualitative assessment/ Quantitative assessment; Antibacterial activity assessment of textile materials: Agar plate method; Determination of antibacterial activity of textile product; Measurement of antibacterial activity on plastics and other non-porous surface; Determination of antibacterial activity of textile product- Agar diffusion plate test; To evaluate the antibacterial efficacy of antibacterial finished textile product; To determine the resistance to dry bacterial penetration; Resistance to dry microbial penetration Bacterial Filtration Efficiency etc.

#### **Antifungal Evaluation:**

To determine the degradability of textile materials-Part-1; To evaluate the susceptibility of textile specimen against fungal Chaetomium globsum-Part-2; To evaluate the susceptibility of textile specimen against fungal like Aspergillus niger.-Part-3; Standard practice for determining resistance of synthetic polymeric materials to fungi; Detection of mildew /rot proofness etc.

## **POLYMER & TECHNICAL TEXTILES LABORATORY**

**No. of Commercial Samples Tested:** 997

### **Type of Samples Received:**

Coated / Laminated, Formed fabrics, Garments, Rubber, Plastic, Leather, Polymer products, Zipper, Slide fastener, Adhesives and Polishes, Buttons and Tapes, Canvas, Leather, Rubber, Plastic and Safety shoes, Composites, Medical Textiles, Geo-textiles, Automotive materials, Protective clothing, Wooden block, Rubber block, Full Body Protector, Anti Riot Helmet, PC Lathi, PC Shield, Rain Cape, Rain Poncho, Bed Mattress etc.

### **Type of Tests Conducted:**

Adhesion strength, Ash content, Bending resistance, Bound organic substances, Chromium content, Compression set, Adhesion tests for shoes, Cut growth, Degree of tannage, Differential number, Dimensional change, Flammability test, Smoke visibility test, Fire resistance, Flexing endurance, Hydrogen sulphide resistance, Ignitability test, Melt flow index, Nitrogen content, Proofing content, Resistance to damage by flexing, Polymer content, Stretch test of elastic tape, Tensile strength & elongation, Tear strength, Thermal conductivity, UV protection factor, Performance test on zipper, Water vapour permeability of leather. Seam fatigue test, Toxicity index, FTIR, Melting point, Ash content, Crib test, Smoke visibility test, Toxicity index, Fire resistance test, Stab & Impact resistance test, Crumple resistance test etc.

## ECO & ENVIRONMENT LABORATORY

**Number of Samples Analyzed:** 378

### ECO LABORATORY

#### **Type of Samples Received:**

Fabric, Yarn, Fibers, Thread, Garment, Carpet, Blanket, Bath Rugs, Rain Capes, Melt Sheet, Automobile Components, Research samples etc.

#### **Type of Analyses Carried out:**

- Carcinogenic Aromatic Amines released from Azo dyes
- Hazardous Substances- Cd, Pb, Hg & CrVI
- Free and released Formaldehyde
- Toxic Heavy Metals- Cd, Cu, Co, Cr, Hg., Ni, Pb, Zn etc.
- Other metals- Fe, Mn, Ca, Mg, Na, K, etc.
- Residual Chlorine
- Penta Chloro Phenol (PCP)
- pH of Aqueous Extract
- Phosphorus, Titanium Oxide & IPA, etc.

## ENVIRONMENT LABORATORY

#### **Type of Samples Received:**

Raw Water, Treated Water, De-mineralized Water, Drinking Water, RO Feed Water, RO Treated and Reject Water, UF Feed and Treated Water, Process House Water, Condensate Water, Industrial Effluents, ETP Inlet, Intermediate and Outlet water, STP Inlet and Outlet Water, Research and Consultancy Samples etc.

#### **Type of analyses carried out:**

- Physicochemical analysis of water including Color, Odor, Turbidity, pH, Conductivity, Total solids, TDS, TSS, Alkalinity, Hardness, Ca, Mg, Na, Cl, SO<sub>4</sub>, NO<sub>3</sub>, PO<sub>4</sub>, HCO<sub>3</sub>, CO<sub>3</sub>, SiO<sub>2</sub>, Fe, B, F, Residual Cl<sub>2</sub>, Ammonical Nitrogen, etc.
- Drinking water parameters including bacteriological analysis (MPN Coliform/100 ml) and heavy metals like Cd, Co, Cu, Cr, Pb, Hg, Ni, Zn etc.
- Effluent parameters like pH, TDS, TSS, COD, BOD, O/G, SAR, NH<sub>3</sub>, S, Cr, Res. Cl<sub>2</sub> and heavy metals etc .
- pH, Solids, Moisture content and Heavy Metals (Cd, Cu, Co, Cr, Hg., Ni, Pb, Zn etc.) in ETP Sludge etc.

#### **New Clients Added in Testing Services:**

M/s. Steel Case Asia Pacific Holdings Pvt. Ltd., M/s. Godrej & Boyce Mfg. Co. Ltd., M/s. Superlite, M/s. Hemp Affair Pvt. Ltd., M/s. Pali CETP.

**Participation of Labs in Inter-lab and Proficiency Test Program:**

- NITRA, Ghaziabad
- BTRA, Mumbai
- SASMIRA, Mumbai
- SITRA Coimbatore
- MANTRA, Surat
- ATHARWA, Noida
- WRA, Thane
- SCS, Enviro Services, Jaipur
- SITRA Power Loom Service Center, Tiruchengode (SITRA PLSC)
- Garware Technical Fibers, Pune
- National Test House (NR), Ghaziabad
- AYM Syntex Ltd., Dadar and Nagar Haveli

## TRAINING SERVICES

Since 2002, NITRA has been conducting several job-oriented professional training programs in regular and distance learning mode (for working professionals) to help the textile and apparel industry source trained manpower.

### **Job-Oriented short term programs (Regular mode):**

Regular programs are meant for graduates and 12<sup>th</sup> Pass students aspiring to make their career in the garment industry. These programs cater to meet the needs of different departments such as Production, Quality Control, Merchandising and Industrial Engg.

During the year 2024-25, following full time programs were offered. A total of 56 students were admitted in these programs. Details are given below.

Sl. No.	Program Title	Min. Qualification	Duration	No. of students trained
1	Fashion Marketing and Merchandising (FMM)	Graduation/ Diploma	12 months	27
2	Apparel Design & Quality Control (ADQC)	12 <sup>th</sup> Pass	12 months	20
3	Apparel Production and Industrial Engg. (APIE)	12 <sup>th</sup> Pass	12 months	09

### **Distance Learning Programs for Working Professionals:**

Since 2003, NITRA is conducting distance learning programs for the working executives of textile and apparel sector. During the year 2024-25, following distance learning programs were offered. A total of 65 candidates were admitted in these programs. Details are given below.

S.No	Name of the Program	Duration	No. of persons trained
1	Textile Technology & Management (TTM-DLP)	12 months	25
2	Apparel Manufacturing and Merchandising (AMM-DLP)	12 months	15
3	Quality Evaluation of Textiles and Garment (QETG-DLP)	12 months	25

Contact sessions are conducted twice in a month on alternate Sundays in NITRA campus.

### Placements of Short term Students (Batch 2024-25)

A total of 14 garment/home textiles export houses and buying houses recruited NITRA students. List of units where the students got placed is given below.

S.No	Name
1	RMX Joss
2	International Sourcing Co
3	Tandi
4	Radiant Expovision
5	Sahu Exports
6	Shahi Exports
7	Paramount
8	Donovan
9	Timmony
10	Kapoor Industries
11	BK Fashions
12	Syadwad Impex
13	3M Exim
14	Viraak

Starting salary offered varies between Rs. 1.44 lac and Rs. 2.28 lac per annum.

### NITRA Technical Campus: The Academic Wing to Support Training Activities

NITRA Technical Campus was established during 2011-12 for conducting AICTE, MoE approved and AKTU, Lucknow affiliated B. Tech. programs. It provides students a unique opportunity to undergo comprehensive training on world class facilities, all available under one roof, to make them industry ready.

Placement of seventh batch of B.Tech. students of NITRA Technical Campus has been very impressive. Till 31<sup>st</sup> March, 2025, 36 students of Textile Technology and Computer Science & Engg. branches have been placed in renowned companies like M/s. Alok Industries, M/s. Vardhman Textiles Ltd., Reliance Industries Ltd., Shahi Exports, Ghaziabad; SMPP, Delhi; Paytm, Noida; Khosla Profil, Yes IT Lab, Noida; Q Spiders, Noida.; Globalsign.In (India) Pvt. Ltd., Hyderabad; Q Spider/J Spider (Unit of Test Yantra Software Solutions (I) Pvt. Ltd, eSec Forte Technologies Pvt. Ltd., NetWings IT Solutions & Global logic etc.

Please refer Annex-7 for training program details and Annex-9 for staff participation in HRD Programmes.

Please refer Annex-13 for placement details of NITRA Technical Campus (NTC) students.

## LIBRARY AND INFORMATION SERVICES

NITRA library is enriched with printed and digital resources. It has dedicated computers to provide on-line access to library resources.

### Resources

The library has developed an adequate collection of Books, Journals, Reports, Thesis and Bound Volume Journals with specialized focus on textiles and allied subjects. The collection is as under:

Books	12016
Journals	21
(For list of journals refer Annex-11&12)	
Project reports	253
Thesis (M.Sc./Ph.D., B.Tech - CSE/TT/TC)	240
Journals (Bound Volumes)	4954

### Library Services

#### **Online Public Access Catalogue (OPAC):**

- Library collection is computerized and the online catalogue provides bibliographic information about **18,000** holdings of books, journal volume (bound), thesis, project reports etc. of the library
- Online Public Access Catalogue informs users about new books and journals added to the library collection
- Members can check details of the borrowed books
- Wi-Fi networking provides its users, access to internet

#### **Photocopying Services:**

Photocopy of the library documents are made available mainly for academic purpose.

#### **NITRA has taken up Institutional Membership of:**

- Bureau of Indian Standards, New Delhi
- The Textile Institute, Manchester

#### **Centre for Academic Partnership (CAP)**

The library continues to promote its academic interaction with academic institutions by making its resources and services available under "Centre for Academic Partnership" scheme. Ten Institutions have become the members of library so far.

### Library Timings:

Library remains open Monday to Saturday 9.30 A.M. to 5.30 P.M. (Except 2<sup>nd</sup> and 4<sup>th</sup> Saturdays and all national holidays). The library also remains open on 2<sup>nd</sup> and 4<sup>th</sup> Saturdays to provide services to its Staff members and Students of DLP Courses.

### New Arrivals of Books at Library (2024-25)

1. Machine Learning : A Practical Approach by Vinod Chandra S. S. & Anand Hareendran S.
2. Programming with Java by E. Balagurusamy, 7th ed.
3. Java : The Complete Reference (Comprehensive Coverage of the Java Language) by Herbert Schildt, Dr. Danny Coward, 13th ed.
4. Spring Boot in Action by Craig
5. Java : A Beginner's Guide '(Create, Compile and Run Java Programms Today) by Herbert Schildt
6. Functional and Technical Textiles Edited by Subhankar Maity, Kunal Singha, Pintu Pandit
7. Textile Calculation: Fibre to Finished Garment Edited by R. Chattopadhyay, Sujit Kumar Sinha, Madan Lal Regar
8. Bamboo Fibres: Processing properties and applications by K Murugesh Babu, S. M. Chandrasekhara
9. Sustainable Fibres and Textiles, Edited by SubramanianSenthilkannan Muthu
10. Learning Spring Boot 2.0 by Greg L. Turnquist, 2nd ed.
11. Standard Methods for the Examination of Water & Waste Water, 24th Ed. By APHA
12. Computing Fundamentals & C Programming by E. Balagurusamy, 2nd ed.
13. Basic Electrical Engineering by J B Gupta
14. Elements of Environmental Science and Engineering by P Meenakshi, 2nd ed.
15. Engineering Chemistry (With Experiments) by Dr. Sunita Rattan
16. Fundamentals of Electronics Engineering by Dr. Sanjay Sharma
17. Fundamentals of Mechanical Engineering by Dr. D S. Kumar
18. Soft Skills :( The employable skills for 21st century ) Including English Language Lab by Dr. Ritu Soryan
19. Universal Human Values and Professional Ethics by Dr. Ritu Soryan
20. A Textbook of Scientific and Technical Communication Writing for Engineers and Professionals by S D Sharma
21. A Textbook of Engineering Mathematics Sem. -I by N. P. Bali, Prof. (Dr.)ManishGoyal, 13th ed.
22. A Foundation Course in Human Values and Professional Ethics : Presenting a universal approach to value education through self exploration. by R R Gaur, R Asthana, G P Bagaria
23. A Manual of Practical Communication by L U B Pandey, R P Singh, 3rd ed.
24. Engineering Drawing : Plane and solid Geometry by N D Bhatt, 54th ed.
25. Engineering Physics : Theory and Experiments by S K Srivastava, R A Yadav, 12th ed.
26. Personality Development and Soft Skills by Barun K Mitra, Basundhara Mitra, 3rd ed.
27. Introduction to Engineering Mathematics Vol. I by H K Dass, Rama Verma, Rajneesh Verma, 12th ed.

28. Fundamentals of Laser Systems and Applications by Prof A K Katiyar, Dr. C K Pandey, Dr. Manisha Bajpai
29. Technical Communication : Principles and practices by Meenakshi Raman, Sangeeta Sharma, 4th ed.
30. Database System Concepts by Abraham Silberschatz, Henry F Korth, 7th ed.
31. Mastering Cloud Computing : Powering AI, Big Data and IoT applications by Rajkumar Buyya, Christian Vecchiola, Thamarai Selvi, ShivanandaPoojara, Satish N Srirama, 2nd ed.
32. Object Oriented Programming with C ++ by E Balagurusamy, 8th ed.
33. Algorithms Design and Analysis by Udit Agarwal
34. Laser and Non-Linear Optics by B B Laud, 4th ed.
35. Let Us Python : Includes programming chat GPT, Security programming by yashavant Kanetkar, Aditya Kanetkar
36. Neural Networks, Fuzzy Systems and Evolutionary Algorithms : Synthesis and applications by S. Rajasekaran, G A Vijayalakshme Pai, 2nd ed.
37. Web Enabled Commercial Application Development Using... HTML, JavaScript, DHTML and PHP by Ivan Bayross, 4th ed.
38. A Text Book of Discrete Mathematics by Swapan Kumar Sarkar, 9th ed.
39. Computer System Architecture by M. Morris Mano, 3rd Rv ed.
40. BIG DATA Analytics by Chandramouli Subramanian, Asha A George, C R Rene Robin, D DoreenHephzibahMiriam, J Jasmine ChristinaMagdalene
41. Understanding LAWS Cyber Lawas & Cyber Crimes by Garima Tiwari
42. Practical Hadoop Ecosystem : A definitive guide to hadoop-related frameworks and tools by Deepak Vohra
43. Hadoop : The difinitiveguide,(storage and analysis at internet scale) by Tom White, 4th ed.
44. Hadoop Operations ; A guide for developers and administrators by Eric Sammer
45. Programming Hive : Data warehouse and query language for Hadoop by Edward Capriolo, Dean Wampler, Jason Rutherglen.
46. HBase : The definitive guide, Random access to your planet -size data by Lars George
47. Programming Pig : Dataflow scripting with Hadoop by Alan Gates& Danial Die, 2nd ed.
48. Big Data Glossary: A guide to the new generation of data tools by Pete Warden
49. BIG DATA and Analytics by Seema Acharya, Subhashini Chellapan, 2nd ed.
50. Big Data (Covers Hadoop2, MapReduce, Hive, YARN, Pig, R and Data Visualization) Black Book by DT Editorial Services
51. Hadoop in Action (Big Data Series) by Chuck Lam
52. Big Data Fundamentals: Concepts drivers & techniques by Thomas Khattak Erl, Wajid Khattak and Paul Buhler
53. Analytics in a Gig Data World : The essential guide to Data Science and applications by Bart Baesens
54. Machine Learning : An algorithmic perspective by Stephen Marsland, 2nd ed.
55. Intelligent Data Analysis : An introduction Edited by MirchaelBearthold, David J Hands, 2nd ed.
56. Machine Learning : A practitioners approach by Vinod Chandra S.S., Anand Hareendaran S.
57. Programming with Java by Balagurusamy E., 7th ed.
58. Java, The Complete Reference Thirteenth Edition : Comprehensive coverage of the JAVA language by Herbert Schildt, Dr. Danny Coword, 13th ed.

## **NITRA Publications**

NITRA is involved in research and consultancy and publishes its own work based on research, this year Library generated Rs.1,26,000.00 by sale of NITRA publications and other miscellaneous resources.

Refer Annex-6 for the booklets, NITRA's Outline on Technical Textile for Entrepreneurs and Students (NOTTES) printed during the year.

## IMPORTANT EVENTS AND HAPPENINGS DURING 2024-25

- ❖ **Sh. Narendra Modiji, Hon'ble Prime Minister of India, visits NITRA stall in Bharat Tex 2025 at Bharat Mandapam, Pragati Maidan, New Delhi on Feb 16, 2025**

Dr. M.S. Parmar Director NITRA explained NITRA Developments to the Hon'ble Prime Minister.

- ❖ **Sh. Giriraj Singh, Hon'ble Minister of Textiles, Government of India, visits NITRA stall at Bharat Tex 2025, Bharat Mandapam, Pragati Maidan, New Delhi on Feb 14, 2025.**

Minister appreciated the R & D initiatives taken by NITRA. Dr. M.S. Parmar, Director, NITRA deliberated the developments.

- ❖ **Sh. Vidit Jain JMD, Pasupati Spg. &Wvg. Mills Ltd. takes over as NITRA's Chairman**

The members of Council of Administration NITRA had met in the 48<sup>th</sup> AGM held on 17<sup>th</sup> Sept.'24 at NITRA, Ghaziabad and elected its new leadership team for the year 2024-25. Sh. Vidit Jain, Jt. MD, Pasupati Spinning & Weaving Mills Ltd. is elected as the new Chairman of NITRA. Sh. Sandeep Hora, Partner & CEO, Aeronav Industrial Safety Appliances is elevated as Dy. Chairman whilst Sh. Nitin Nolakha, Jt. MD, Nitin Spinners Ltd has been inducted as the new Vice Chairman.

- ❖ **Sh. Sandeep Hora Dy. Chairman, NITRA visits NITRA stall at Bharat Tex Bharat Mandapam, Pragati Maidan, 2025 on Feb 14, 2025**

Dr. M.S. Parmar, Director, NITRA accompanied him and apprised about the recent developmental activities carried out at NITRA.

- ❖ **African delegates visit NITRA stall at Bharat Tex 2025, Bharat Mandapam, Pragati Maidan, New Delhi on Feb 15, 2025**

The delegates appreciated the NITRA research developments on protective textiles.

- ❖ **German Delegates visit NITRA stall in Bharat Tex 2025 and Appreciate NITRA's Developments in Milkweed Fibres on Feb 15, 2025**

The Delegates applauded the developments for being instrumental in 'closing the loop' and addressing sustainability and circularity in technical textiles.

- ❖ **Hon'ble Union Minister for Textiles and Chairman ISRO visit NITRA Pavilion**

NITRA participated in the exhibition & conference on Viksit Bharat - Technical Textiles for Sustainable Growth & Development. The event was organized under the aegis of NTTM, MoT, jointly with FICCI and ITTA at Asok Hotel, New Delhi during Sept. 2024. It's been a matter of great pride that Sh. Giriraj Singh, Hon'ble Union Minister for Textiles along with Dr. S. Somanath, Chairman, ISRO visited NITRA pavilion and showed keen interest in NITRA developments. In addition to that, Director General,

NITRA expressed his views as panelist in many of the sessions that was conducted during the 2-day conference cum exhibition.

❖ **NITRA Ranked among Top 5 Innovative Institutes in India by CII**

NITRA received CII Industrial Innovation Award 2024 on December 13, 2024 for three consecutive years in a row.

❖ **Sh. Giriraj Singh, Hon'ble Minister of Textiles, Gol, graces 62<sup>nd</sup> Joint Technological Conference at NITRA**

NITRA, in their Golden Jubilee Year (1974-1924), hosted the 62<sup>nd</sup> Joint Technological Conference (JTC) at its campus in Ghaziabad on 24<sup>th</sup> & 25<sup>th</sup> October, 2024. The major technical developments in the field of textiles, based on the R&D works carried out by TRAs during the year, were presented and deliberated in the conference. For the first time in history of JTC, scientists from all eight TRAs together presented 26 papers on conventional and technical textile technology.

Sh. Giriraj Singh, Hon'ble Union Minister for Textiles was the Chief Guest in the 62<sup>nd</sup> JTC. Sh. Rajeev Saxena, Jt. Secretary and Smt. Roop Rashi, Textile Commissioner, also joined the conference. Chairman, NITRA Sh. Vidit Jain; Dy. Chairman, Shri Sandeep Hora; Directors of ATIRA, BTRA and SITRA, Sh. Pragnesh Shah, Dr. T. V. Sreekumar, and Dr. Prakash Vasudevan; Director General, NITRA, Dr. Arindam Basu; research scientists; delegates from industry and senior personnel from military and para-military forces were also present.

Hon'ble Textile Minister inaugurated this mega conference and exhibition organized on this occasion. Besides, he also inaugurated new Fibre Spinning Plant, Non-woven Plant and Melt Spinning Lab in NITRA. He expressed happiness over the activities and achievements of the TRAs. The chief guest was particularly happy with NITRA's R&D and new product developments in the area of Protective & Automotive Textiles. The hon'ble minister felicitated 25 NITRA employees who have completed 25 years of dedicated service to NITRA.

❖ **Hon'ble Minister of State for Textiles, Sh. Pabitra Margherita Felicitated Dr. Arindam Basu, DG NITRA, in CITI Textile Sustainability Awards 2025 function organized by CITI at Bharat Tex 2025, Bharat Mandapam, Pragati Maidan, New Delhi on February 17, 2025.**

❖ **Sh. Giriraj Singh, Hon'ble Minister of Textiles, Gol, meets Director, NITRA and appreciates NITRA's R&D Development**

It was a matter of great pride that Hon'ble Union Minister of Textiles, Sh. Giriraj Singh met Dr. M. S. Parmar, Director and a senior scientist of NITRA, in his office on 21<sup>st</sup> August 2024. The Hon'ble Minister also appreciated the R&D work done by NITRA on "Cellulose-based indigenous high Clo value and low-density surface modified natural fibre for developing thermal layers of extreme cold climate clothing". On the occasion, Director, NITRA presented him with a piece of nonwoven fabric made of specially developed hollow natural fibre by NITRA scientists. Being impressed by this development, hon'ble union textile minister immediately contacted DG NIFT for designing various products based on this.

#### ❖ **25<sup>th</sup> Research Advisory Committee (RAC) Meet held at NITRA**

25<sup>th</sup> RAC meeting was held at NITRA on December 14, 2024. NITRA scientists presented 14 R&D projects to experts from T&A industry and academia. Developmental projects were aimed for industries such as steel, automotive, armour sector, specialized fire suits, agro textiles, extreme cold climate clothing, protective textiles, sports textiles, development of nylon 66, conversion of natural resources to industrial products, sustainability etc. Extensive discussions were held and new ideas were shared. DG NITRA asserted that NITRA has always been working on R&D in the area which are directly going to benefit textile and apparel industry. The meet was chaired by Sh. Nitin Nolakha, JMD, Nitin Spinners Ltd. Dr. M.S. Parmar, Director NITRA, proposed the vote of thanks.

- ❖ Dr. Arindam Basu, Director General, NITRA gave special address in 2nd Conference on Technical Textiles at PHD House on 3rd February 2025, offering key insights into the future of Technical Textiles.
- ❖ Dr. Arindam Basu, DG NITRA, Moderated session on "Mapping Good Practices from Farm to Fashion" in CITI Textile Sustainability Awards 2025 function organized by CITI at Bharat Tex 2025, Bharat Mandapam Pragati Maidan New Delhi on February 17, 2025.
- ❖ Dr. M.S. Parmar, Director NITRA, Participates as one of the Panelists in a Webinar on "Mission for Cotton Productivity"

In the webinar, Dr. Parmar shared his insights on ensuring seamless production and availability of milkweed fibre in large quantities on May 27, 2024. He also highlighted its potential applications across various industries. During the discussion, he emphasized the need for dedicated funding to enhance the cultivation of this crop in different states, in collaboration with the Cotton Corporation of India (CCI), to boost its growth and impact. The session was chaired by Mrs. Neelam Shami Rao, Secretary, Ministry of Textiles, and moderated by Mr. L.K. Gupta, CMD, CCI. The Hon'ble Prime Minister addressed the theme of the webinar. The Hon'ble Minister of Textiles, Sh. Giriraj Singh, was also present during the program. A total of 10 sessions were conducted, covering various areas related to agriculture. Finally, the chairpersons of all the sessions apprised the Hon'ble Minister of Agriculture & Farmers Welfare, Sh. Shivraj Singh Chouhan, about the outcomes of the discussions.

#### ❖ **NITRA-NJB organize joint seminars in New Delhi and Ludhiana**

NITRA and National Jute Board (NJB) jointly organized two seminars on Development of Jute Composite for Automotive Acoustic Insulation & Other Uses in New Delhi and Molten Metal Splash Resistance Unique Jute-Cotton Based Workwear for Steel Foundry Workers in Ludhiana on August 2, 2024 and September 26, 2024 respectively. The seminars were organized to appraise the industry about the developments that are made by NITRA scientists in this direction. Smt. Prajakta Verma, IAS, Joint Secretary, MoT, Gol was the chief guest and Sh. Shashi Bhushan Singh, Secretary, NJB was Guest of Honour in Ludhiana meet. Personnel from steel foundries, textiles and apparel industries attended this seminar.

- ❖ NITRA Technical Campus became member of Computer Association of India.
- ❖ Dr. B.K. Sharma, Director, NITRA Technical Campus chaired Technical Session on 4<sup>th</sup> International conference on Advancement in Electronics & Communication Engineering, RKGIT, Ghaziabad on November 23, 2024.
- ❖ Dr. Nidhi Sisodia, Sr. Scientific Officer, NITRA Chaired the Technical Session "Natural Fibres for Health and Wellness" on 28th January, 2025 and received Award in National Symposium on "Threads of Heritage: Exploring Traditional Textiles and Natural Fibres" organized at the College of Post-Graduate Studies in Agricultural Studies (CPGS-AS), Barapani, Shillong, Meghalaya.

#### ❖ **19<sup>th</sup> Convocation Ceremony held at NITRA**

NITRA's 19<sup>th</sup> Convocation Ceremony took place on 17<sup>th</sup> September 2024 in presence of hon'ble council members and other dignitaries. 103 students were awarded certificates and medals in the convocation. It is worth mentioning that NITRA is offering many industry-oriented programs on regular and DLP modes, covering areas such as garment manufacturing, designing, merchandising, and quality assurance. Till now NITRA has completed 87 batches of full time and 65 batches of DLP programs and has trained and placed over 3,400 students in various renowned garment /textiles exports companies.

#### ❖ **NITRA Observes World Environment Day**

NITRA observed World Environment Day on 5<sup>th</sup> June, 2024. This day is observed every year to create awareness among the staff members and students of NTC about the need of maintaining a clean and green environment around us. Ms. Annu Kumari, Asst Professor conducted a special technical session for the students on how to reduce environment pollution. Besides, a poster making competition was also organized. Dr. Arindam Basu, along with other officials and students of the institute planted saplings in NTC Campus.

#### ❖ **NITRA Observes International Yoga Day**

NITRA and NTC observed International Yoga Day at its campus in Ghaziabad on 21<sup>st</sup> June 2024. Yoga instructors Ms. Kanika Negi & Mr. Prateek Wadhwa deliberated on "Importance of Yoga in Routine Life." Ms. Kanika Negi gave live demonstrations of various Mudra, Asanaa and Pranayama. Faculty members and students of NITRA Technical Campus have actively taken part in this yoga-session.

#### ❖ **NITRA Technical Campus Organises Blood Donation Camp**

NITRA Technical Campus (NTC), in association with Ghaziabad Blood Centre, organized a Blood Donation Camp on 4th May, 2024 at NTC Campus. The event is organized with a view to imbibe a sense of social responsibility amongst NTC students. Students and faculty members volunteered to donate blood. Dr. Arindam Basu, DG, NITRA & Director, NTC with senior faculty members distributed certificate, blood bank card and memento to the donors.

❖ **NITRA Technical Campus Celebrates 'National Startup Day'**

Startup India is a flagship initiative of the Govt, for nurturing innovation and startups in the country that will drive sustainable economic growth and generate employment opportunities. Every year on January, 16 is observed as the National Startup Day. Institute Innovation Council of NITRA Technical Campus (NTC), Ghaziabad organized a program on 'How to Convert an Idea into Businesses' for its B. Tech students. Mr. Gaurav Srivastava, CEO and founder of Innersoul wellbeing (P) Ltd. and Big Alpha LLP and Mr. KVS Rao, a senior civil servant in several central govt. ministries made presentations. They explained the various aspects of establishing a startup and its business model.

❖ Dr. B.K. Sharma conducted Ph.D. viva voce of SRM Research Scholar and Sharda University Research Scholar on July 7 & Dec 20, 2024 respectively.

❖ **Dr. B.K. Sharma attends Advisory Board Meeting**

Dr. B.K. Sharma attended Advisory Board Meeting at RKGIT, Ghaziabad on 18<sup>th</sup> Nov, 2024 & 19<sup>th</sup> Feb, 2025.

❖ Dr. B.K. Sharma took over the charge of Director, NITRA Technical Campus on March 1, 2025

❖ Dr. B.K. Sharma, Director, NITRA Technical Campus moderated session on "Industry Academia Collaboration: Road ahead in Global AI Summit 2024" Bennett University Greater Noida on 6<sup>th</sup> September 2024.

❖ **B.Tech. CSE branch Student wins The Best Paper Award in National Seminar at IPEM group of Institutes, Ghaziabad**

Mr. Epsit Bhardwaj, student of 3<sup>rd</sup> Year CSE was adjudged as the recipient of Best Paper Award. The paper was presented in National seminar on Realizing self-reliant India through Digital Transformation and outcome-based education on 27<sup>th</sup> April, 2024. This national seminar was organized by IPEM group of Institutes, Ghaziabad. Their ideation, presentation were applauded by a large section of the visitors and jury members as well.

❖ **B.Tech. CSE branch Student Bags 2<sup>nd</sup> Position Navtarang- 2004 inter college cultural fest held at ITS College Mohan Nagar**

Ms. Deepanshi Kashyap, student of 2<sup>nd</sup> year CSE branch stood 2<sup>nd</sup> in the poster making competition and bagged the trophy. This event was organised by ITS Group of Institutions, Mohan Nagar, Ghaziabad on 1-2 May 2024.

❖ **B.Tech. CSE and CSE (AI&ML) branch students takes part in 'Smart India Hackathon 2024'**

Students of CSE and CSE (AI&ML) branch participated in "Smart India Hackathon 2024" at the nodal center Shobhit Institute of Engineering & Technology, Meerut from 1<sup>st</sup> of Dec. to 12<sup>th</sup> Dec. 2024. This event was organized by Ministry of Human

Resource Development (MHRD) and All India Council for Technical Education (AICTE) to promote digital literacy in India and to facilitate and bring governance in every citizen's reach. The team of NITRA Technical campus performed extremely well and garnered acclamation from both the juries and the audience.

- ❖ B.Tech Textile Technology students attended 2<sup>nd</sup> Conference on Technical Textiles on 3<sup>rd</sup> February, 2025, PHD House, New Delhi

## POWERLOOM SERVICE CENTRES

Ministry of Textiles, Government of India, has established 45 Power Loom Service Centres across the country. High priority is given to these projects as these centres help in local entrepreneurship development, employment generation and economic development of states and country.

Out of these 45 centres, administrative control of 8 Power Loom Service Centres (PLSCs) is assigned to Northern India Textile Research Association, Ghaziabad. These Centres are functioning at the following locations:

1. In Uttar Pradesh
  - (i) Meerut
  - (ii) Kanpur
  - (iii) Tanda
  - (iv) Gorakhpur
  - (v) Varanasi
2. In Haryana - Panipat
3. In Punjab - Ludhiana
4. In Rajasthan - Bhilwara

These centres are serving decentralized power loom sector to achieve the objectives as given below:

### OBJECTIVES OF POWER LOOM SERVICE CENTRES

- (1) To impart practical training to weavers for improving their efficiency, skill and productivity. Side by side, quality up-gradation and product-mix diversification are also emphasized, keeping in view of the present need of national and international markets.
- (2) New design development and diversification of power loom products for improving the economy and scale of operation of power loom weavers.
- (3) To provide testing facilities to decentralized power loom sector and make them aware of need and importance of testing required for meeting forthcoming changes in reference to the globalization trends.
- (4) To provide technical consultation facilities related to operational difficulties faced by powerloom weavers.
- (5) To co-ordinate developmental activities of powerloom industry with state Governments.
- (6) To motivate decentralized power loom industry towards upgrading / modernizing their units and take advantage of government schemes, viz. TUFS, Group Workshed Scheme and Weaver's insurance etc. and organize seminars/workshops.
- (7) To collect and compile statistical information of power loom industry.

## ACTIVITIES

In order to achieve above mentioned objectives, Power Loom Service Centres carried out following activities during the year 2024-2025:

1. Liaison visits/survey carried out (No. of units covered)	-	1092
2. Technical assistance/consultations provided	-	98
3. Design developed	-	13
4. Samples tested	-	2921
5. No. of persons trained	-	451

## TEXTILE TESTING LABORATORIES

All eight Power Loom Service Centres are having testing facilities capable to meet basic requirements of the decentralised power loom sector in normal course. In addition to it, special testing facilities are also available at following four centres. These centres are:

1. Meerut (Uttar Pradesh)
2. Panipat (Haryana)
3. Bhilwara (Rajasthan)
4. Varanasi (Uttar Pradesh)

At these locations, samples related to fibre, yarn, fabric and chemical based requirements were tested. Details of these testing assignments carried out during the year are mentioned below:

Activity	Varanasi	Meerut	Panipat	Bhilwara	Kanpur	TOTAL
No. of samples tested	214	52	966	1,404	285	2,921

## COMPUTER AIDED DESIGN (CAD) CENTRES

As additional feather in the cap, there are five CAD centers, which are located at Panipat, Bhilwara, Ludhiana, Tanda and at head office, Ghaziabad. The activities of CAD centers functioning under administrative control of NITRA are as mentioned below:

Activity	Tanda	Bhilwara	Total
No. of Designs developed	6	7	13

At Power Loom Service Centre, Tanda, Computer Aided Dobby and Jacquard design systems are available where as at CAD Centre, Ghaziabad doobby, jacquard, printing and embroidery design systems are available.

These CAD Centres develop new designs and provide training to the person working in decentralized Power Loom Sector.



Dr. M. S. Parmar, Director General, NITRA, explaining the technicalities of NITRA project on Milkweed to Hon'ble Prime Minister of India Sh. Narendra Modi at Bharat-Tex 2025, New Delhi



Hon'ble Prime Minister of India Sh. Narendra Modi showing keen interest in NITRA's R&D activities on application of Milkweed Fibres, as explained by Dr. M. S. Parmar, Director General, NITRA. Also seen is Textile Minister Sh. Giriraj Singh



Hon'ble Union Textile Minister being accompanied by Dr. M. S. Parmar, Director General NITRA on his visit to NITRA Pavilion at Bharat-TEX 2025, New Delhi



Dr. M. S. Parmar, Director General, NITRA accompanies Sh. Sandeep Hora, Dy. Chairman, NITRA at Bharat-TEX 2025, New Delhi





Dr. Neha Kapil, Asst. Director and Senior Scientist of NITRA at Bharat-TEX 2025, New Delhi



Media personnel from renowned TV channel interviewing Dr. M. S. Parmar, DG, NITRA on Developmental Activities carried out at NITRA particularly on Fire Entry Suit



Dr. M. S. Parmar, Director General, NITRA with one of the foreign delegates in NITRA Pavilion at Bharat-Tex 2025, New Delhi



Dr. M. S. Parmar, Director General, NITRA and other scientists with one of the foreign delegates in NITRA Pavilion at Bharat-Tex 2025, New Delhi



Dr. M. S. Parmar, DG NITRA accompanies Sh. Sanjay Jain and Mr. Hardik Jain of M/s. TT India Ltd. and Dr. Ravinder Verma, M/s Ganga Acrowool Ltd. in front of a protective textile product displayed in NITRA Pavilion at Bharat Tex - 2025



Dr. M. S. Parmar, DG, NITRA with delegates in NITRA Pavilion at Bharat-Tex 2025. Also seen are NITRA Scientists Dr. Nidhi Sisodia (extreme left) and Dr. Preeti Sachdeva (extreme right)



Hon'ble Union Textile Minister Sh. Giriraj Singh appreciating Dr. M. S. Parmar, Director General, NITRA for his exceptional research acumen in the area of textiles



Sh. Giriraj Singh, Hon'ble Union Minister of Textiles, Gol inaugurates the state of art Non-woven Plant during the 62<sup>nd</sup> JTC in presence of governing council members and senior officials of NITRA

**ANNEXES**



**MEMBERS OF THE COUNCIL OF ADMINISTRATION 2024-2025**

1. **Shri Vidit Jain  
(Chairman)** Jt. Managing Director  
Pasupati Spg. & Wvg. Mills Ltd.  
127, 128, 1<sup>st</sup> Floor, Tribhuvan Complex  
Nehru Place, Mathura Road  
Ishwar Nagar  
New Delhi – 110 065
2. **Shri Sandeep Hora  
(Deputy Chairman)** Partner/CEO  
Aeronav Industrial Safety Appliances  
C-36, 3<sup>rd</sup> Floor, Panchsheel Enclave  
New Delhi – 110 016
3. **Shri Nitin Nolakha  
(Vice Chairman)** Jt. Managing Director  
Nitin Spinners Ltd.  
16-17 KM Stone, Chittor Road  
Hamirgarh – 311 025  
Bhilwara (Rajasthan)
4. **Shri Raj Kumar Jain** Managing Director  
Zonac Knitting Machines Pvt. Ltd.  
D-1, D-2, Site B, Surajpur Industrial Area  
Greater Noida – 201 306  
Distt. Gautam Budh Nagar
5. **Shri Dinesh Nolkha** Managing Director  
Nitin Spinners Ltd.  
12, Badal Textile Market, Pur Road  
Bhilwara – 311 001 (Raj.)
6. **Shri S.K. Kapoor** Managing Director  
Surya Processors Pvt. Ltd.  
619, Bisrakh Road, Village Chhapraulla,  
Distt. Ghaziabad – 201 001
7. **Shri Sanjay Kumar Jain** Managing Director  
T.T. Ltd.  
879, Master Prithvi Nath Marg  
Opp. Ajmal Khan Park, Karol Bagh  
New Delhi – 110 005
8. **Shri Ramesh Kumar Jain** Chairman-cum-MD  
Pasupati Spg & Wvg Mills Ltd.  
127, 128 Tribhuvan Complex  
Nehru Place, Mathura Road  
Ishwar Nagar  
New Delhi – 110 065

- |     |                         |   |
|-----|-------------------------|---|
| 9.  | Shri Hardik Jain        | Director<br>T.T. Ltd.<br>879, Master Prithvi Nath Marg<br>Opp. Ajmal Khan Park, Karol Bagh<br>New Delhi – 110 005   |
| 10. | Shri Varun Ladha        | Managing Director<br>Suvida Spinners Pvt. Ltd.<br>91 K.M. Stone, N.H. No.79<br>Village – Dhunwalia, P.O. Sareri-311024<br>Distt. Bhilwara                                   |
| 11. | Shri B.M. Sharma        | Jt. Managing Director<br>RSWM Ltd.<br>Bhilwara Towers<br>A-12, Sector-1, Noida – 201 301  |
| 12. | Dr. S.N. Modani         | Vice Chairman<br>Sangam (India) Ltd.<br>Atun, Chittorgarh Road<br>Bhilwara – 311 001 (Raj.)   |
| 13. | Shri Sanjay Garg        | President – NITMA<br>Managing Director<br>Longowalia Yarns Ltd.<br>43, Mall Enclave, Civil Lines<br>Ludhiana – 141 012 (Punjab)   |
| 14. | Shri Mukesh Kumar Tyagi | Sr. Vice President – NITMA<br>Director<br>BST Textile Mills Pvt. Ltd.<br>309, 3 <sup>rd</sup> Floor, Woodrow Building<br>Veera Desai Road<br>Mumbai – 400 023 (Maharashtra) |
| 15. | Shri Sidharth Khanna    | Vice President - NITMA<br>Director, Arishudana Inds. Ltd..<br>G-143, G.T. Road, Giaspura Road<br>Dhandari Kalan<br>Ludhiana – 141 003 (Punjab)                              |
| 16. | Shri Rajeev Agarwal     | CEO<br>Geo Sys India Infrastructures P.Ltd.,<br>C-56A/28, Sector-62<br>Noida-201309 (U.P.)  |
| 17. | Representative          | NTC Ltd.<br>Core IV, Scope Complex<br>7, Lodhi Road, New Delhi – 110 003  |

- |     |                                  |  |
|-----|----------------------------------|--|
| 18. | Representative                   | NTC Ltd.<br>Core IV, Scope Complex<br>7, Lodhi Road, New Delhi – 110 003   |
| 19. | Prof. K.J. Sreeram               | Director CSIR<br>Central Leather Research Institute<br>Sardar Patel Road, Adyar<br>Chennai – 600 020   |
| 20. | Shri M. Sankar                   | Chairman, TMMA (I) &<br>Director Operation<br>Textile Machinery Division<br>Lakshmi Machine Works Limited<br>34A, Kamaraj Road<br>Coimbatore – 641 018 |
| 21. | Dr. Arindam Basu                 | Director General<br>NITRA<br>Sector 23, Raj Nagar<br>Ghaziabad – 201 002   |
| 22. | Shri Pragnesh Shah               | Director<br>Ahmedabad Textile Industry's Research<br>Association<br>P.O. Ambawati Vistar<br>Ahmedabad – 380 015 (Gujarat)                              |
| 23. | Dr. Prakash Vasudevan            | Director<br>The South India Textile Research Association<br>13/37, Avanashi Road<br>Coimbatore – 641 014   |
| 24. | Dr. T.V. Sreekumar               | Director<br>The Bombay Textile Research Association<br>Lal Bahadur Shastri Marg<br>Ghatkopar (West)<br>Mumbai – 400 086                                |
| 25. | Chairman/Addl. Secretary General | Apparel Export Promotion Council<br>Apparel House, Institutional Area<br>Sector 44<br>Gurgaon - 122 003 (Haryana)                                      |
| 26. | Prof. R. Alagirusamy             | Professor & Head<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas, New Delhi - 110 016                                   |
| 27. | Ms. Chandrima Chatterjee         | Secretary General<br>CITI, 6 <sup>th</sup> Floor, Narain Manzil<br>23, Barakhamba Road<br>New Delhi – 110 001  |

28. Shri Ashish Bagrodia  
Chairman & Managing Director  
Winsome Textile Industries Ltd.  
SCO 191-192, Sector 34 A  
Chandigarh – 160 022
29. Shri Rajeev Mehani  
Sr. Vice President  
Vardhman Textiles Ltd.  
Chandigarh Road  
Ludhiana – 141 010
30. Dr. Rajiv K. Srivastava  
Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi – 110 016
31. Prof. Rabisankar Chattopadhyay  
Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi - 110 016
32. Shri R.C. Kesar  
PNC 024 The Pinnacle  
DLF City Phase V  
Sector 43  
Gurgaon - 122 009 (Haryana)
33. Shri Naveen Gupta  
Partner  
Star Safety Hub  
I-31B, DLF Industrial Area, Phase-1  
Faridabad – 121 003
34. Shri Sanjeev Israni  
Vice President – PSF Business  
Reliance Industries Ltd.  
10<sup>th</sup> Floor, International Trade Tower  
Nehru Place, New Delhi-110019
35. Shri S.K. Ojha  
Executive Vice President  
Auro Tetiles, Unit-II  
Baddi
36. Shri Praveen Kumar Kora  
Dy. General Manager  
(Human Protection Division)  
Arvind Limited  
P.O. Khatraj, Tal. Kalol  
Distt. Gandhinagar-382721 (Gujarat)
37. Shri L.N. Jhunjunwala  
LNJ Bhilwara Group  
Bhilwara Towers  
A-12, Sector-1  
Noida – 201 301

- |     |                       |  |
|-----|-----------------------|--|
| 38. | Shri Sharad Jaipuria  | Chairman & Managing Director<br>Ginni International Ltd.<br>2 <sup>nd</sup> Floor, Shanti Chamber<br>11/6B, Pusa Road<br>New Delhi – 110 005 |
| 39. | Shri Shishir Jaipuria | Managing Director<br>Ginni Filaments Ltd.<br>H-6, Sector-63<br>Noida – 201 301   |
| 40. | Dr. Rikhab Chand Jain | Chairman & MD<br>T.T. Limited<br>879, Master Prithvi Nath Marg<br>Opp. Ajmal Khan Park, Karol Bagh<br>New Delhi – 110 005                    |
| 41. | Shri Rakesh Grover    | Managing Director<br>Groversons Apparels (P) Ltd.<br>2665, A/2, Beadonpura, Karol Bagh<br>New Delhi - 110005                                 |
| 42. | Representative        | The Cotton Corpn. of India Ltd.<br>Kapas Bhawan, Plot No. 3/A<br>Sector-10, CBD – Belapur<br>Navi Mumbai – 400 614                           |

## MEMBERS OF THE FINANCE & ADMINISTRATIVE SUB-COMMITTEE 2024-2025

- |    |   |   |
|----|---|---|
| 1. | <b>Shri Sandeep Hora<br/>(Chairman FAC)</b> | Partner/CEO<br>Aeronav Industrial Safety Appliances<br>C-36, 3 <sup>rd</sup> Floor, Panchsheel Enclave<br>New Delhi – 110 016   |
| 2. | Shri Vidit Jain                             | Jt. Managing Director<br>Pasupati Spg. & Wvg. Mills Ltd.<br>127, 128, 1 <sup>st</sup> Floor, Tribhuvan Complex<br>Ishwar Nagar<br>Nehru Place, Mathura Road<br>New Delhi - 110 065      |
| 3. | Shri Nitin Nolakha                          | Jt. Managing Director<br>Nitin Spinners Ltd.<br>16-17 KM Stone, Chittor Road<br>Hamirgarh – 311 025<br>Bhilwara (Rajasthan)   |
| 4. | Shri Raj Kumar Jain                         | Managing Director<br>Zonac Knitting Machines Pvt. Ltd.<br>Plot No.18&19, Ecotech Part-1<br>D-2, Site-B, Surajpur Industrial Area<br>Greater Noida – 201 306<br>Distt. Gautam Budh Nagar |
| 5. | Shri Dinesh Nolkha                          | Managing Director<br>Nitin Spinners Ltd.<br>12, Badal Textile Market<br>Pur Road, Bhilwara - 311 001 (Raj.)   |
| 6. | Shri S.K. Kapoor                            | Managing Director<br>Surya Processors Pvt. Ltd.<br>619, Bisrakh Road, Village Chapraula<br>Distt. Ghaziabad - 201 001   |
| 7. | Shri Sanjay Kumar Jain                      | Managing Director<br>T.T. Ltd.<br>879, Master Prithvi Nath Marg<br>Opp. Ajmal Khan Park, Karol Bagh<br>New Delhi - 110 005  |
| 8. | Shri Ramesh Kumar Jain                      | Chairman-cum-MD<br>Pasupati Spg & Wvg Mills Ltd.<br>127, 128, 1 <sup>st</sup> Floor, Tribhuvan Complex<br>Nehru Place, Mathura Road<br>Ishwar Nagar , New Delhi - 110 065               |

- |     |                                |   |
|-----|--------------------------------|---|
| 9.  | Shri Hardik Jain               | Director<br>T.T. Ltd.<br>879, Master Prithvi Nath Marg<br>Opp. Ajmal Khan Park, Karol Bagh<br>New Delhi – 110 005                       |
| 10. | Ms. Chandrima Chatterjee       | Secretary General<br>CITI, 6 <sup>th</sup> Floor, Narain Manzil<br>23, Barakhamba Road<br>New Delhi – 110 001                           |
| 11. | Dr. Arindam Basu               | Director General<br>NITRA<br>Sector 23, Raj Nagar<br>Ghaziabad – 201 002  |
| 12. | Shri R.C. Kesar                | PNC 024 The Pinnacle<br>DLF City Phase V<br>Sector 43, Gurgaon-122 009 (Haryana)  |
| 13. | Prof. Rabisankar Chattopadhyay | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas<br>New Delhi - 110 016                         |
| 14. | Shri Ashish Bagrodia           | Chairman & Managing Director<br>Winsome Textile Industries Ltd<br>SCO 191-192, Sector 34 A<br>Chandigarh – 160 022                      |
| 15. | Shri Rajeev Agarwal            | CEO<br>Geo Sys India Infrastructures P. Ltd.<br>C-56A/28, Sector-62<br>Noida - 201309 (U.P.)  |
| 16. | Shri Naveen Gupta              | Partner<br>Star Safety Hub<br>I-31B, DLF Industrial Area, Phase-1<br>Faridabad – 121 003  |
| 17. | Prof. R. Alagirusamy           | Professor & Head<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas<br>New Delhi - 110 016                  |
| 18. | Shri Praveen Kumar Kora        | Dy. General Manager<br>(Human Protection Division)<br>Arvind Limited<br>P.O. Khatraj, Tal. Kalol<br>Distt. Gandhinagar-382721 (Gujarat) |

19. Shri Sanjeev Israni  
Vice President – PSF Business  
Reliance Industries Ltd.  
10<sup>th</sup> Floor, International Trade Tower  
Nehru Place, New Delhi-110019
20. Dr. Rajiv K. Srivastava  
Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi – 110 016
21. Shri Rajeev Mehani  
Sr. Vice President  
Vardhman Textiles Ltd.  
Chandigarh Road  
Ludhiana – 141 010

## MEMBERS OF THE RESEARCH ADVISORY COMMITTEE 2024-2025

1. **Shri Nitin Nolakha  
(Chairman RAC)** Vice Chairman-NITRA Council of Admn.  
Jt. Managing Director  
Nitin Spinners  
16-17 KM Stone, Chittor Road  
Hamirgarh – 311 025  
Bhilwara (Rajasthan)
2. **Shri Vidit Jain** Jt. Managing Director  
Pasupati Spg. & Wvg. Mills Ltd.  
127, 128, 1<sup>st</sup> Floor, Tribhuvan Complex,  
Mathura Road, Ishwar Nagar,  
New Delhi - 110 065
3. **Shri Sandeep Hora** Partner / C.E.O.  
Aeronav Industrial Safety Appliances  
C-36, 3<sup>rd</sup> Floor, Panchsheel Enclave,  
New Delhi- 110016
4. **Shri Raj Kumar Jain** Managing Director  
Zonac Knitting Machines Pvt. Ltd.  
D-1, D-2, Site B  
Surajpur Industrial Area,  
Greater Noida – 201 306  
Distt. Gautam Budh Nagar
5. **Shri Dinesh Nolkha** Managing Director  
Nitin Spinners Ltd.  
12, Badal Textile Market Pur Road,  
Bhilwara - 311 001 (Raj.)
6. **Shri S.K. Kapoor** Managing Director  
Surya Processors Pvt. Ltd.  
619, Bisrakh Road, Village Chhapraulla,  
Ghaziabad - 201 001
7. **Shri Sanjay Kumar Jain** Managing Director  
T.T. Ltd.  
879 Master Prithvi Nath Marg  
Opp. Ajmal Khan Park, Karol Bagh,  
New Delhi - 110 005
8. **Dr. Arindam Basu** Director General  
NITRA  
Sector 23, Raj Nagar  
Ghaziabad – 201 017

- |     |                             |   |
|-----|-----------------------------|---|
| 9.  | Shri Abir Chakrabarti       | Head (TRADC)<br>Textile Research & Application<br>Development Centre,<br>Birla Dham Kharach, Kosamba (R.S.),<br>Distt. Bharuch – 394 120 (Gujarat)      |
| 10. | Dr. T.V. Sreekumar          | Director BTRA<br>Lal Bahadur Shastri Marg<br>Ghatkopar (West) Mumbai –400 086   |
| 11. | Shri Arvind Yadav           | Chairman cum Managing Director<br>Arikav Textiles Ltd.<br>C-4, Site-IV, UPSIDC Indl. Area,<br>Kasna Road, Greater Noida,<br>Gautam Budh Nagar (U.P)     |
| 12. | Dr. Amit Rawal              | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas, New Delhi - 110 016   |
| 13. | Prof. Ashwini Kumar Agrawal | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas, New Delhi - 110 016   |
| 14. | Prof. Abhijit Majumdar      | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas, New Delhi - 110 016   |
| 15. | Prof. B.S. Butola           | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas, New Delhi – 110 016   |
| 16. | Dr. B.S. Yadav              | General Manager<br>Mahima Fibres Pvt. Ltd.<br>406, Corporate House, 4 <sup>th</sup> Floor<br>Opp. Jhabua Tower, 169 RNT Marg<br>Indore – 452 001 (M.P.) |
| 17. | Prof. Rajeev K. Srivastava  | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas, New Delhi – 110 016   |
| 18. | Mr. Naveen Gupta            | Managing Director<br>M/s. Star Safety Hub<br>I-31B, DLF Industrial Area<br>Phase-1, Faridabad-121003  |

- |     |                                   |  |
|-----|-----------------------------------|--|
| 19. | Mr. Kunal Toshkhani               | Dy. General Manager<br>(Manufacturing Excellence & Strategy)<br>M/s. Raymonds Ltd.<br>Jeke-gram, Pokhran Road No. 1<br>Thane (W)-400 606 (Maharashtra) |
| 20. | Dr. N.N. Mahapatra                | Business Head Dyes<br>Shree Pushkar Chemicals and Fertilizer Ltd.,<br>Atlanta Centre, Goregaon (East)<br>Mumbai  |
| 21. | Shri Pragnesh Shah                | Director<br>ATIRA<br>P.O. Ambawati Vistar<br>Ahmedabad – 380 015 (Gujarat)   |
| 22. | Dr. Prakash Vasudevan             | Director<br>SITRA<br>13/37, Avanashi Road<br>Coimbatore Aerodrome<br>Coimbatore – 641 014 (T.N.)   |
| 23. | Shri Prasanta Kumar Deka          | Vice President – Sales & Marketing<br>Rieter India Pvt. Ltd.<br>Karegaon Bhima, Pune   |
| 24. | Prof. R. Alagirusamy              | Professor & Head<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas, New Delhi – 110 016                                   |
| 25. | Prof. Rabisankar<br>Chattopadhyay | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas, New Delhi 110 016  |
| 26. | Shri R.C. Kesar                   | PNC 024 The Pinnacle<br>DLF City Phase V<br>Sector 43,<br>Gurgaon-122 009 (Haryana)  |
| 27. | Shri S.M. Dwivedi                 | Chief Executive Officer<br>Sara Textiles Ltd.<br>Sara House, B-8,<br>Sector-4,<br>Noida, Distt. G.B. Nagar   |

## LIST OF MEMBER UNITS

### A. Units in Rajasthan

1. Arham Spinning Mills
2. Ginni International Ltd.
3. Modern Threads (India) Ltd.
4. Modern Suitings
5. Nitin Spinners Ltd.
6. Orient Syntex
7. Prema Syntex Ltd.
8. RSWM (Bhilwara unit)
9. RSWM (Banswara unit)
10. RSWM (Rishabdev unit)
11. Rajasthan Textile Mills Ltd.
12. Shree Rajasthan Syntex Ltd.
13. Shree Rajasthan Texchem Ltd.
14. Swatantra Bharat Mills, Tonk
15. Udaipur Cotton Mills - NTC
16. Banswara Syntex Ltd.

### B. Units in Haryana

1. AAA Spinners
2. Bhiwani Textiles
3. Bhiwani Synthetics Ltd.
4. CMS Impex India Pvt. Ltd.
5. D.C.M. Textiles
6. H.P. Cotton Textile Mills
7. Haryana Text Prints (Overseas Ltd.)
8. HRS Fibres Ltd.
9. H.P. Spg. Mills
10. K.C. Textiles Ltd.
11. Magic Exports, Panipat
12. Mittal Processes Pvt. Ltd.
13. National Woollen & Finishers
14. Pasupati Spg. & Wvg. Mills Ltd.
15. R.K. Dyeing Industries Ltd.
16. Sheena Exports
17. Swastika Woollen Mills
18. The Technological Institute of Textiles & Science
19. Jasch Industries Ltd., Sonapat
20. Chelsea Mills, Gurgaon
21. Tex Corp. Limited
22. Protech Textiles & Trims (P) Ltd.
23. Star Safety Mills
24. Keshav Exports
25. GBTL Ltd.

### C. Units in U.P.

1. ACI Oils Pvt. Ltd.
2. Alps Industries Ltd.
3. Awadh Textwood (P) Ltd.
4. Bureau Veritas Consumer Products Services (India) Pvt. Ltd.
5. Dewan Textiles
6. Gajroula Spinning Mills (T.T. Limited)
7. J.K. Synthetics Ltd.
8. Kailadevi Traders
9. Nirmal Fibres (P) Ltd.
10. Pasupati Acrylon Ltd.
11. Pawan Exports Pvt. Ltd.
12. Pasupati Fabrics
13. Shamken Multifab Ltd.
14. Shamken Spinners Ltd.
15. Sogo Fashions Pvt. Ltd.
16. Surya Processors Pvt. Ltd.
17. Mahavir Spinfab Pvt. Ltd.
18. Maral Overseas Ltd.
19. Jayshree International
20. Orient Craft Limited
21. Sybly Industries Ltd.
22. Aeronav Industrial Safety Appliances
23. Radnik Auto Exports
24. RSWM, Noida
25. Shahi Exports Pvt. Ltd.
26. Pilkhuwa Water Proofing Co. Pvt. Ltd.
27. Zonac Knitting Machine (I) Ltd.
28. Derpa Industrial Polymers (P) Ltd.
29. Icon Designs
30. Geosys India Infrastructures Pvt. Ltd.
31. Integrated Defence Products Pvt. Ltd.
32. Nexgen Fabrics Pvt. Ltd.
33. G.D. International
34. Ganpati Interglobe Pvt. Ltd.
35. Sahifab Pvt. Ltd.
36. National Handloom Production

### D. Units in Delhi

1. Gold Rock World Trade Ltd.
2. Indian Arts & Crafts Syndicate
3. J.P.C.
4. Neelam Threads Pvt. Ltd.
5. R.K. Silk Mills India Pvt. Ltd.
6. Radiant Exports, New Delhi
7. Growel Impex Pvt. Ltd.
8. Kay Tent Industries

9. U.S. Industries
10. Aktion Safety Solutions Pvt. Ltd.
11. Hartree Energy Systems Pvt. Ltd.
12. S.K. Enterprises
13. T.T. Limited
14. Partap Industries

#### **E. Units in Punjab**

1. Abhishek Industries Ltd.
2. Adhinath Dyg. & Fsg. Mills
3. Abhinav Cotspin Ltd.
4. Bhandari Exports
5. Exprtex Advanced Materials Pvt. Ltd.
6. Bhasin Industries
7. Kharar Textile Mills
8. Malwa Cotton Spg. Mills Ltd.
9. Malwa Cotton Mills Ltd.
10. Nahar Fibres Ltd.
11. Nahar Industrial Enterprises Ltd.
12. Nahar Exports Ltd.
13. Nahar Fabric Ltd.
14. Nahar Spinning Mills
15. Oswal Cotton Spg. Mills Ltd.
16. Rishab Spg. Mills
17. Rainbow Denim
18. Suraj Textile Mills
19. Vardhman Textiles Ltd.
20. Winsome Textile Industries Ltd.
21. Punjab Wool Syndicate
22. Shingora Textiles Pvt. Ltd.
23. Saanjh 1947 Art and Culture

#### **F. Units in Himachal Pradesh**

1. GPI Textiles (India) Ltd.
2. Himachal Fibres Ltd.
3. Malwa Cotton Spg. Mills Ltd.

#### **G. Units in J&K**

1. Chenab Textile Mills

#### **H. Units in Madhya Pradesh**

1. Indo-Rama Textiles Ltd.
2. Maral Overseas Ltd.
3. Mid India Industries
4. Vikram Woollens Ltd.
5. Mahaveer Udyog

#### **I. Units in Maharashtra**

1. Alok Industries Ltd.
2. Applied System, Mumbai
3. Surya Lakshmi Cotton Mills
4. Kusumgar Corporate India Pvt. Ltd.
5. Sunil Industries Ltd.
6. Continental Surface Solutions India Pvt. Ltd.
7. Mafatlal Industries Ltd.
8. Entermonde Polycoaters Ltd.

#### **J. Unit in Andhra Pradesh**

1. Shree Manufacturing Co. Ltd.

#### **K. Unit in West Bengal**

1. Jayashree Textiles
2. Frontier Protectivewear Pvt. Ltd.
3. Arruth Technical Performance Wear Pvt. Ltd.
4. Jupiter Rubber Pvt. Ltd.

#### **L. Unit in Karnataka**

1. Bhoruka Textile Ltd.

#### **M. Units in Tamil Nadu**

1. Shubh Swasan India Pvt. Ltd.
2. Loyal Textile Mills Ltd.

#### **N. Unit in Thailand**

1. Thai Acrylic Fibre Co.

#### **O. Units in Gujarat**

1. Arvind Ltd.
2. Reliance Industries Ltd.
3. Adient Arvind Automotive Fabrics India Pvt. Ltd.

#### **P. Units in Uttrakhand**

1. G.M. Trading Co., Haridwar
2. Kashi Vishwanath Textile Mill Pvt. Ltd.

## Total Member Units

### State-wise:

Andhra Pradesh	-	01	Punjab	-	23
Delhi	-	14	Rajasthan	-	16
Gujarat	-	03	Tamil Nadu	-	02
Haryana	-	25	Uttar Pradesh	-	36
Himachal Pradesh	-	03	West Bengal	-	04
Jammu & Kashmir	-	01	Uttarakhand	-	02
Karnataka	-	01			
Madhya Pradesh	-	05	<b>Overseas:</b>		
Maharashtra	-	08	Thailand	-	01

**Total No. of Member Units = 145**

**STAFF MEMBERS**  
(As on 31.03.2025)

NAME	DESIGNATION	QUALIFICATION
Dr. Arindam Basu	Director General	B.Sc. Tech. (Text. Tech.), M. Text., Ph.D., PGDBIM, C.Eng., FIE, FSAB, FTA
Dr. M.S. Parmar	Director	M.Sc., Ph.D, PGDMM, DCPA
<b>Chemical &amp; Quality Evaluation Division:</b>		
Dr. Nidhi Sisodia	Sr. Scientific Officer	M.Sc., M.Tech. (Text. Chem.), Ph.D.
Dr. Preeti Kaur Sachdeva*	Sr. Scientific Officer	M.Sc. (Fabric & Apparel Sc.), Ph.D.
Mr. Kuldeep Yadav*	Scientific Officer	B.Tech. (Textile Chem.), M.Tech. (Fibres & Textiles Processing Tech.)
Mr. Kuldeep Singh	Jr. Scientific Officer	M.Sc., PG Dip. in QC & ISO 9000, ATA
Mr. Swami Sharan	Jr. Scientific Officer	M.Sc. (Chem.), ATA
Mr. Vishal Singh*	Technical Officer	Dip. in Textile Chemistry, B.Tech. (Textile Chemistry)
Mr. Sanjay Kumar*	Technical Officer	B.Tech. (Electrical Engg.)
Ms. Anjali Yadav*	Research Assistant	B.Sc. (Biotechnology), M.Sc. (Biotechnology)
Mr. Devendra Singh	Sr. Tech. Asstt.	B.A.
Mr. Sumit Kumar	Jr. Investigator	M.Com., DCA, GDDFT
Mr. Umesh Pathak	Jr. Investigator	Intermediate
Mr. Shaju Kumar T.P.*	Data Processor	B.A. (Sociology)
<b>Engineering Division:</b>		
Mr. Vikas Sharma	Principal Scientific Officer Head of Department	B.E.(Mech.), Adv. Dip. in MM & CM, BEE Cert. Energy Auditor
Mr. Raj Kumar Saini*	Sr. Electrician	Diploma (Electrical), BEE Cert. Energy Manager

NAME	DESIGNATION	QUALIFICATION
<b>Environmental Engineering Division:</b>		
Mrs. Annu Kumari*	Scientific Officer (Env.)	Dip. in Computer Appn., PGDM-DLP/HB in Mktg. Mgt., PGDM-DLP/HB in Business Admn., M.Sc. Tech. (Env. Sc. & Tech.)
Mr. Harendra Singh	Sr. Investigator	M.Sc. (Chem.)
Mr. D. Chakraborty*	Jr. Investigator	B.Sc. (Chem.), Cert. Course in Computer Appn.
<b>Garment Centre:</b>		
Mr. Vivek Agarwal	Deputy Director Dean-Textile Technology	B.Tech, PGDBM, MS (by Research)
Mr. M.M. Tiwari*	Asstt. Director	B.Sc., Dip. in Text.
Dr. Shweta Saxena	Principal Scientific Officer	M.Sc. (Textile & Clothing) M. Phil. (Textiles), Ph.D.
Mr. Sanjay Gupta	Jr. Scientific Officer	M.Sc.
Mrs. Geeta Sharma*	Faculty	Dip. in Fashion Designing & Garment Tech., B.A., AMEIM
Mrs. Jyoti Banerjee*	Educational Counsellor cum Faculty	Dip. in Fashion Designing, B.Sc.(Fashion Design), MBA
<b>Mechanical Processing Division (Spg. &amp; Wvg.):</b>		
Mr. Kushagra Prakash	Principal Scientific Officer	B.Text. (Text. Tech.) M.F. Tech.
Mr. M.K. Bansal	Principal Scientific Officer	Dip. in Text. Tech., MBA
Mr. Lalit Giri Goswami*	Sr. Scientific Officer	B.E. (Textile Tech.)
Mr. A.K. Pandey*	Project Manager Flax Spinning	B.Text. (Tech.)
Mr. Ravi Sonkar*	Scientific Officer	Dip. in Text. Tech., B.Tech. (Text. Engg.), M.Tech. (Text. Tech.)
Mr. Adarsh Gautam*	Jr. Scientific Officer	B.Tech. (Textile Tech.)
Mr. Satyanarayana V.	Sr. Tech. Asstt.	SSC, ITI, ATA

NAME	DESIGNATION	QUALIFICATION
<b>Marketing &amp; Publications:</b>		
Mr. Rajendra Kumar Gaur*	Asstt. Director Head of Department	B.Text., PG Dip. in Mktg. Mgmt., Dip. in TQM & ISO 9000, Dip. in Prodn. Mgmt., MIE
Mr. Partha Basu*	Public Relations Officer	B. Com, PGD in Advtg. & Mktg. Mgmt.
<b>Physics &amp; Quality Evaluation Division:</b>		
Dr. Neha Kapil	Asstt. Director Head of Department	M.Sc. (Textile & Clothing), M. Phil. (Textiles), Ph.D.
Mrs. Seema Sharma	Sr. Tech. Asstt.	M.Sc.
Mr. Deepak Jangra*	Sr. Tech. Asstt.	Dip. in Textile Design
Mr. Jaswant Singh*	Sr. Tech Asstt.	Intermediate
Mr. G.C. Bajpai	Sr. Tech. Asstt.	B.Sc. (Chem.)
<b>Polymer &amp; Technical Textiles Division:</b>		
Dr. Neha Kapil	Asstt. Director Head of Department	M.Sc. (Textile & Clothing) M. Phil. (Textiles), Ph.D.
Mr. Yogesh Kumar	Jr. Scientific Officer	M.Sc. (Chem.), ATA
Mr. Prakash	Sr.Tech. Asstt.	Intermediate, ITI
Mr. Mohit Pandey	Jr. Investigator	B.Sc., M.A. (Maths), ATA
<b>Research &amp; Development Cell:</b>		
Mr. Pankaj Kumar	Sr. Scientific Officer	B.Tech. (Textile Chemistry), M.Tech. (Textile Chemistry)
Dr. Sundaramoorthy P.*	Sr. Scientific Officer	B.Tech. (Textile Tech.), M.Tech. (Textile Tech.), Ph.D.
Dr. Roopam Chauhan*	Sr. Scientific Officer	B.Tech. (Textile Engg.), M.Tech. (Textile Engg. & Mgt.), Ph.D.

NAME	DESIGNATION	QUALIFICATION
<b>Library:</b>		
Mr. Abbas Raza	Librarian	B.Sc., M.A., DPA, PGDCA, MLISC
<b>Administration &amp; Accounts:</b>		
Mr. Atul Baijal*	Dy. Manager (Accounts) Head of Department	M.Com, L.L.B., MBA
Mr. Sachin Bhatt*	Sr. Accounts Officer	Chartered Accountant
Mr. V.K. Singhal	Jr. Accounts Officer	M.Com.
Mr. Rajeev Singh Rawat	Jr. Accounts Officer	B. Com.
Mr. S.A.A. Rizvi	Jr. Purchase Officer	B.Sc., PG Dip. in Computer Science & Application, MBA
Mr. Manjeet Singh Sachdeva	Accounts Supervisor	B.Com.
Mr. N. Govindaraj*	Data Processor	SSLC
Mr. P.K. Butola	Store & Purchase Sup.	M.A.
Mrs. Saraswathi Devi*	Receptionist	B.A., Cert. in Computer Application, Cert. in Typewriting Lower & Higher
<b>Directorate:</b>		
Mr. Hari Om Sharma*	PA to Director General	B.A., LL.B., PG Dip. in Personnel Mgt., Dip. in Stenography
<b>NITRA Technical Campus:</b>		
Dr. B.K. Sharma	Director - NITRA Technical Campus	M.Sc., M.Tech. (IT), Ph.D., SMCSI, FIETE, MIAE, MCSTA, SMIACIT
Mr. Sanjeev Shukla	Asstt. Director	B.Sc., B.Text., M.Tech., PGDBM
Mr. Krishan Kumar Dewan	Principal Scientific Officer	B.A., BHM, e-Commerce, PGDBM, M.Sc. (Comp. Sc.)
Dr. Meghna Tyagi	Associate Prof. (Maths)	M.Sc., Ph.D.
Mr. R.C. Yadaw	Asstt. Prof. (Mechanical)	B.Tech. (Mech. Engg.), M.Tech. (Machine Design)

NAME	DESIGNATION	QUALIFICATION
Dr. A.P. Srivastava	Asstt. Prof. (CSE)	B.Tech. (IT), M.Tech. (CS), PGDBM, Ph.D.
Mr. Sourabh Jain	Asstt. Prof. (ECE)	B.E. (ECE), M.Tech. (Aerospace Engg.-D&C)
Mr. Nitin Kumar Sharma*	Asstt. Prof. (CSE)	B.Tech. (CSE), M.Tech. (CSE)
Ms. Divya Pachauri*	Asstt. Prof. (CSE-AIML)	B.Tech. (CSE), M.Tech. (CSE)
Mr. Abhineet Suman*	Asstt. Prof. (CSE-AIML)	B.Tech. (CSE), M.Tech. (CE-NIMS)
Ms. Priya Tyagi*	Asstt. Prof. (CSE-AIML)	Dip. In Electronics Engg., B.Tech. (CSE), M..Tech. (AI & Robotics)
Mrs. Akansha Rajput*	Asstt. Prof. (CSE)	B.Tech. (CSE), M.Tech. (CSE)
Mrs. Priyanka Arora*	Asstt. Prof. (CSE)	B.Sc. (PCM), M.Sc. (Maths)
Mr. Rakesh Kumar*	Sr. Lab Asstt. cum Faculty	B.Tech. (Computer Engg.)

### SUPPORTING STAFF (TECHNICAL)

#### Physics & Quality Evaluation Division:

*Laboratory Assistant:*

Mr. Saurabh Dhar\*  
 Ms. Prachi Raj\*  
 Ms. Annu Yadav\*  
 Ms. Priyanka Singh\*  
 Mr. Abhay Kumar\*  
 Mr. Dinesh\*

*Lab Attendant:*

Mr. Mohd. Nazim\*

*Trainee:*

Mr. Ritik Thakur\*

*Peon:*

Mr. Ranveer Singh

#### Chemical & Quality Evaluation Division:

*Laboratory Assistant:*

Mr. Nirbhay Katiyar\*  
 Mr. Vikas Sahu\*

*Project Assistant:*

Mr. Vinay Pratap

*Lab Attendant:*

Mr. Sandeep Kumar\*

#### Polymer & Technical Textiles Division:

*Laboratory Assistant:*

Mr. Vipin Jindal\*  
 Ms. Tanu Walia\*  
 Mr. Ajeet Kumar Yadav\*  
 Mr. Sanjeev Kumar Srivastav\*  
 Mr. Sidhanta Pal\*

*Peon:*

Mr. Harsh Kumar\*

Mechanical Processing Division (Spg. & Wpg.)

*Weaver Trainer:*

Mr. V. Ramesh

Garment Centre:

*Senior Trainer:*

Mr. Asif Ali

Engineering Division:

*Electrician:*

Mr. Sandeep Sharma

Mr. Sachin Kumar\*

R&D Cell:

*Laboratory Assistant:*

Mr. Rajkumar Gautam\*

*Project Trainee:*

Mr. Shubham Kumar Yadav\*

NITRA Technical Campus:

*Laboratory Instructor:*

Mr. Madan Gopal Pal

Mr. Rohitash Singh\*

Mr. Pankaj Sharma\*

*Laboratory Assistant:*

Mr. Dharmendra Kumar\*

Mr. Shiva Choudhary\*

Mr. Aakash Gaur\*

Mr. Sachin\*

*Computer Maint. Asstt.:*

Mr. Raju Yadav

SUPPORTING STAFF (NON-TECHNICAL)

Administration:

*Sewing Machine Technician:*

Mr. Mukesh Kumar Tomar

*Driver:*

Mr. Ganesh Lal

*Office Assistant:*

Mr. Narender Singh

*Peon:*

Mr. Sukh Pal Sharma

Accounts:

*Sr. Accounts Assistant:*

Mr. Hemand Kumar

*Accounts Assistant:*

Mr. Sanjay Kumar\*

*Office Assistant:*

Mr. Aman Tyagi\*

Mrs. Santoshi Rana\*

Library:

*Draughtsman:*

Mr. M.K. Tomar

*Peon:*

Mr. Govind Ram\*

Directorate:

*Daftari:*

Mr. Dharamveer Singh

*Driver:*

Mr. Anil Kumar

*Peon:*

Mr. Ramveer Singh

*Office Attendant:*

Mr. Ankit Choudhary\*

NITRA Technical Campus:

Peon:  
Mr. Rajpal Singh\*

Caretaker Boys' Hostel cum  
Supervisor:  
Mr. Yogesh Kumar Tiwari\*

Caretaker Girls' Hostel:  
Mrs. Kala Naidu\*  
Mrs. Kusum\*

Office Attendant:  
Mr. Dushyant Pandit\*

---

**SENIOR OFFICERS AT POWER LOOM SERVICE CENTRES / TESTING LABORATORIES**

---

<b>NAME</b>	<b>STATUS</b>	<b>QUALIFICATION</b>	<b>DIVISION</b>
Mr. Kushagra Prakash	Principal Scientific Officer	B.Text. (Text. Tech.) M.F. Tech.	PLSC, Meerut
Mr. Tejpratap Singh*	Technical Officer	B.Tech. (Text. Tech.)	PLSC, Kanpur
Mr. Ravi Singh Yadav*	Technical Officer	B.Tech. (Text. Tech.)	PLSC, Bhilwara
Mr. S. Ansari	Resident Manager	Dip. in Hand. Tech.	PLSC, Gorakhpur
Mr. Kushagra Prakash	Principal Scientific Officer	B.Text. (Text. Tech.) M.F. Tech.	PLSC, Ludhiana
Mr. S. Ansari	Resident Manager	Dip. in Hand. Tech.	PLSC, Tanda
Mr. Jeeshan Khan*	Technical Officer	BE (Text. Processing)	PLSC, Panipat
Mr. Dharmesh Dubey*	Officer-in-charge	B.Tech. (Text.Tech)	PLSC, Varanasi

---

\*On Contract

**RESIGNATIONS / EXPIRY OF CONTRACTS, RETIREMENTS AND TERMINATION DURING THE PERIOD APRIL 2024 TO MARCH 2025**

S.No.	NAME	DIVISION	DESIGNATION
<b>A) Resignations / Expiry of contract:</b>			
1.	Ms. Archana Gangwar*	R&D Cell	Senior Scientific Officer
2.	Mr. Alok Prajapati*	PQE	Trainee
3.	Mr. Utkarsh Chaurasia*	CQE	Trainee
4.	Mr. Aman Singh*	PTTD	Trainee
5.	Mr. Rahul Kumar Gupta*	CQE	Laboratory Assistant
6.	Mr. Kartikay Singh*	PLSC, Kanpur	Trainer
7.	Mr. Vishal Chaubey*	NTC	Asstt. Professor (Maths)
<b>B) Retirements:</b>			
1.	Mr. Avnish Kumar Sharma	SDC	Senior Scientific Officer
2.	Mr.S.K. Pathania	PLSC, Ludhiana	Trainer-cum-Loom Fitter
3.	Mr. Partha Basu	Mktg. & Pub.	Public Relations Officer
4.	Mr. R.P. Tripathi	PQE	Senior Investigator
5.	Mr. Atul Kumar Sharma	PLSC, Varanasi	Junior Scientific Officer
<b>C) Termination:</b>			
1.	Ms. Purnika Bakshi*	Mktg. & Pub.	Marketing Executive

\*On Contract

## RESEARCH PAPER PUBLISHED AND PRESENTED

S.No.	Title	Author(s)	Publication/Place	Date
1.	Sustainable Fibres	M.S. Parmar	In the session Sustainable Textiles: Pioneering the Circular Economy for Global Markets at the PM MITRA Park, Lucknow Investors Meet, organized by the - Government of Uttar Pradesh in collaboration with CII	March 22, 2025
2.	The Convergence of Artificial Intelligence and Healthcare in Revolutionizing Diagnosis, Treatment, and Personalization: A Review	Abhineet Suman, Anand Prakash Srivastava, Nitin Kumar Sharma, Priya Tyagi	3rd International Conference on Disruptive Technologies (ICDT-2025) GL Bajaj Institute of Technology and Management, Greater Noida, India	March 7-8 2025
3.	A Comprehensive Review of Swarm Intelligence based Metaheuristic Algorithms	Abhineet Suman, Gunjan, Anupam Biswas	3rd International Conference on Disruptive Technologies (ICDT-2025) GL Bajaj Institute of Technology and Management, Greater Noida, India	March 7-8, 2025
4.	Spinning of Cotton Yarn with Recycled Cotton as a Component	Lalit Giri Goswami	Sustainability and Recycling in the Textile and Apparel Industry organised by TANTU at India International Center, New Delhi	February 8, 2025
5.	Web based Payroll Management System	Apoorv Deep Sahu, N.K. Sharma, Krishan Dewan & B.K. Sharma	International Conference on Sustainable Future, Organized by IPEM, Ghaziabad	February 7-8, 2025

S.No.	Title	Author(s)	Publication/Place	Date
6.	A Review on Public Transport and Traffic System using AI Techniques.	Nitesh Kumar, Amrita Rajvanshi & B.K. Sharma	International Conference on Sustainable Future, Organized by IPEM, Ghaziabad	7 <sup>th</sup> – 8 <sup>th</sup> February, 2025
7.	Analysis of impact energy absorption and comfort characteristics of 3D knitted fabrics impregnated with shear thickening fluid	Arindam Basu and Roopam Chauhan	4th International Conference on Functional Textiles & Clothing (FTC) at IIT Delhi	February 2, 2025
8.	Effect of accelerated weathering on sustainable agricultural mulching using sunnhemp and banana fibers	Nidhi Sisodia	4th International Conference on Functional Textiles & Clothing (FTC), IIT New Delhi	February 1, 2025
9.	Non-conventional Fibres For sustainable societal development of North East Region	Nidhi Sisodia	National Symposium on "Threads of Heritage: Exploring Traditional Textiles and Natural Fibres" organized at the College of Post-Graduate Studies in Agricultural Studies (CPGS-AS), Barapani, Shillong, Meghalaya	January 27, 2025
10.	Future trends and Challenges in Quantum Machine Learning	B.K. Sharma	ATAL Faculty Development Programs on Quantum Machine Learning: Bridging the Gap between Quantum Computing and AI, Organized by RKGIT, Ghaziabad	January 11, 2025
11.	Presentation on "Extraction and application of milkweed fibres in different areas"	M.S. Parmar	M/s Ganga Acrowool Ltd, Ludhiana	December 26, 2024

S.No.	Title	Author(s)	Publication/Place	Date
12.	Presentation on "Application of milkweed fibre in different areas"	M.S. Parmar	The National Botanical Research institute, Lucknow	December 20, 2024
13.	Presentation on "Development of Jute-cotton-based molten metal splash-resistant workwear"	M.S. Parmar	Durgapur Steel Plant, Durgapur	December 12, 2024
14.	Thermal Protective Layer of Protective Textiles	Arindam Basu	Annual Volume of Institution of Engineers Textile Division	December, 2024
15.	A chapter written on 'Microencapsulation Moringa Oleifera Essential Oil for Antibacterial Properties on Cotton'	Rupali Kakaria, Neha Singh and M.S. Parmar	Polymer for Advanced Technology, Springer Proceedings in material, Vol 1, pp 83-95	December 2024
16.	Light-Weight Indigenously Developed Firefighter Suit.	M.S. Parmar and Nidhi Sisodia edited by Gupta, D., Majumdar, A., Gupta, S. (eds)	Functional Textiles and Clothing 2023. ICFTC 2023. Springer Proceedings in Materials, vol 42. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-99-9983-5_1">https://doi.org/10.1007/978-981-99-9983-5_1</a>	2024
17.	Investigation of weave influence on flame retardancy of jute fabrics	Setara Begum, Michael Hummel, Ayub Nabi Khan, M.S. Parmar, Rimvydas Milašius	AUTEX Research Journal, Vol. 24, No. 1, 2024, 20230035, DOI 10.1515/aut-2023-0035	2024
18.	Importance of machine learning techniques for effective decision making and corrective action in industry	B.K. Sharma	4th International conference on advancement in electronics & Communication engineering, RKGIT, Ghaziabad	November 23, 2024

S.No.	Title	Author(s)	Publication/Place	Date
19.	Optimization of kraft pulping process for <i>Sesbania aculeata</i> (dhaincha) stems using RSM.	Surabhi Das, Anita Rani, Nidhi Sisodia, Manisha Gahlot, Arvind sharma	Nordic Pulp & Paper Research Journal	November 2024
20.	Effect of bleaching on optical properties of dhaincha ( <i>Sesbania aculeata</i> ) pulp	Surabhi Das, Anita Rani, Nidhi Sisodia	Pantnagar Journal of Research	November 2024
21.	Biodegradable Agrotextiles: Exploring the role of Banana and Sunhemp Fibers in Agriculture	Nidhi Sisodia, A.K. Pandey & A. Basu	National Conference on "Advent of Emerging Technologies in Textile Industry" on the occasion of 110 years of Heritage of GCTI, Kanpur	October 27, 2024
22.	A Critical Review of Water and Chemical Consumption in Textile Processing Industries: Case Studies	Pankaj Kumar, Arindam Basu & Jeeshan	National Conference on "Advent of Emerging Technologies in Textile Industry" on the occasion of 110 years of Heritage of GCTI, Kanpur	October 26, 2024
23.	Optimisation of various layers of Specialized firefighter suits	M.S. Parmar, Nidhi Sisodia, Kuldeep Yadav and Swami Sharan	62 <sup>nd</sup> Joint Technological Conference 2024	October 24-25, 2024
24.	Investigating the potential use of banana and sunhemp fibers in Agrotextiles	Nidhi Sisodia, A.K. Pandey and Arindam Basu	62 <sup>nd</sup> Joint Technological Conference 2024	October 24-25, 2024
25.	Development of extreme cold climate clothing from Cellulose-based high <i>Clo</i> value and low-density natural fibre	M.S. Parmar, Preeti Kaur Sachdeva, and Nidhi Sisodia	62 <sup>nd</sup> Joint Technological Conference 2024	October 24-25, 2024

<b>S.No.</b>	<b>Title</b>	<b>Author(s)</b>	<b>Publication/Place</b>	<b>Date</b>
26.	Impact protection and comfort characteristics of STF-infused 3D knitted fabrics for sports textile	Roopam Chauhan and Arindam Basu	62 <sup>nd</sup> Joint Technological Conference 2024	October 24-25, 2024
27.	Spinning of yarns using mechanically recycled cotton fibre with virgin fibre	Lalit Giri Goswami, Arindam Basu	62 <sup>nd</sup> Joint Technological Conference 2024	October 24-25, 2024
28.	Case Studies on Reducing Water and Chemical Consumption in Textile Processing	Pankaj Kumar & Arindam Basu	62 <sup>nd</sup> Joint Technological Conference 2024	October 24-25, 2024
29.	Opening & Cleaning of Fibres: latest developments	Arindam Basu	A Chapter in Developments in Yarn Spinning Technologies, published by Elsevier Ltd., London	October, 2024
30.	Compact Spinning: New Developments	Arindam Basu	A Chapter in Developments in Yarn Spinning Technologies, published by Elsevier Ltd., London	October, 2024
31.	Rotor Spinning	Sundaramoorthy P. & Arindam Basu	A Chapter in Developments in Yarn Spinning Technologies, published by Elsevier Ltd., London	October, 2024
32.	Air-vortex Spinning: New Developments	Arindam Basu	A Chapter in Developments in Yarn Spinning Technologies, published by Elsevier Ltd., London	October, 2024
33.	Developments in Worsted Spinning Systems	Arindam Basu	A Chapter in Developments in Yarn Spinning Technologies, published by Elsevier Ltd., London	October, 2024

S.No.	Title	Author(s)	Publication/Place	Date
34.	A multi-model software defect recommendation system	Vikas Suhag S K Dubey B.K. Sharma	7 <sup>th</sup> International Conference on Contemporary Computing and Informatics (IEEE Conference record # 61595), Organized by Amity University, Greater Noida.	September 19, 2024
35.	A comparative analysis of various machine learning algorithms for effective decision making	B.K. Sharma	International Conference on AI and Emerging Technology Organized by Bennett University, Greater Noida.	September 6, 2024
36.	Development of thermal layer using low twist yarns and roving of aramids and FR viscose blend	Shweta Chauhan, M.S. Parmar, & Nidhi Sisodia	Indian Journal of Fibre & Textile Research, Vol. 49, pp. 289-296, DOI: 10.56042/ijftr.v49i3.3657	September 2024
37.	Modelling a movie recommendation system using a mixed classification method	A.P. Srivastava S. K. Sharma	1 <sup>st</sup> International Conference of Advanced Computing & Emerging Technologies (ACET), (IEEE Conference record # 573), Organized by AKGEC, GZB.	August 23 & 24, 2024
38.	A Mood Based Movie Recommendation System Using Machine Learning	A.P. Srivastava S. K. Sharma	International Journal of Creative Research Thoughts (IJCRT), Vol 12, Issues 8 August 24	August 04, 2024
39.	The Role of Ayodhya Bhraman Website to Empower Ayodhya Tourism Digitally	Nishita Rani, Ganesh Kumar, Sourabh Jain and B.K. Sharma	International conference on "Building a Resilient Economy: Policies and Strategies for Sustainable Growth". Jaipuria Institute of Management, Ghaziabad	July 06, 2024
40.	E-waste Management and Facility Locator System	Abhishek Nandan, Apoorv Sharma, Yogesh Kumar, A.P. Srivastava and B.K. Sharma	International conference on "Building a Resilient Economy: Policies and Strategies for Sustainable Growth". Jaipuria Institute of Management, Ghaziabad	July 06, 2024

S.No.	Title	Author(s)	Publication/Place	Date
41.	Software defect prediction using global and local models	Vikas Suhag S.K. Dubey B.K. Sharma	International Journal of System Assurance Engineering and management, Springer Nature	July 02, 2024
42.	A movie recommendation system based on machine learning techniques	A.P. Srivastava S. K. Sharma	International Journal of Innovative Research in Technology (IJIRT), Vol. 11, Issue 2 July 2024	July 02, 2024
43.	Development of molten metal splash-resistant clothing for foundry workers using sustainable jute-based textile materials	M.S. Parmar, Shweta Saxena & Swami Saran	Published in Indian Journal of Fibre & Textile Research, Vol. 49, pp. 189-196	June 2024.
44.	Textile Wastewater Treatment through AOPs with Special Focus on Fixed-Bed Approach: A Review	Palak Bansal, A. Kumari & M.S. Parmar	Published in J. Water Chem. Technology Vol - 46, P-292–301	Apr.-Jun. 2024.
45.	Light-Weight Indigenously Developed Firefighter Suit	M.S. Parmar and Nidhi Sisodia	Published in Proceedings of 3rd International Conference on Functional Textiles & Clothing 2023 Springer Proceedings in Materials, Vol - 4, page – 3	Apr.-Jun. 2024.
46.	Assessing the sustainable viability of natural fibre derived from rice straw in textile and fashion industry	Kajal Singh, Kavita Chaudhary & M.S. Parmar	Presented at 6th Int. Conference on Recent Innovations in Research Innovations in Science & Technology (RIST 2024) Thrissur, India,	April 26-27, 2024.
47.	A Comparative Analysis of ChatGPT and Bard AI	Epsit Bhardwaj Krishan Dewan B.K. Sharma	Presented at National Seminar on Realizing Self Reliant India Through Digital Transformation, IPEM, Ghaziabad	April 27, 2024

<b>S.No.</b>	<b>Title</b>	<b>Author(s)</b>	<b>Publication/Place</b>	<b>Date</b>
48.	Need for Internet Security in Social Networks	Amrita Rajvansh, Krishan Dewan N.K. Sharma	Presented at 2 <sup>nd</sup> International Conference on Multidisciplinary and Current Technical Research, MITS, Gwalior (MP)	April 20-21, 2024
49.	Cyberwar as a Battlefield	Nitesh Kumar, Krishan Dewan B.K. Sharma	Presented at 2 <sup>nd</sup> International Conference on Multidisciplinary and Current Technical Research, MITS, Gwalior (MP)	April 20-21, 2024
50.	Presentation on "High-Visibility Warning Clothing"	M.S. Parmar & Neha Kapil	M/s.Kusumgar Corporate Pvt. Ltd.	April 18, 2024

## BOOKS PUBLISHED

S. No.	Title	Author(s)	Publication/Place/ Journal	Period
1.	Agro Textiles	Dr. Nidhi Sisodia	NITRA Publications	July 2024
2.	Automotive Textiles	Dr. Neha Kapil	NITRA Publications	July 2024
3.	Building Textiles	Dr. Nidhi Sisodia & Kuldeep Yadav	NITRA Publications	July 2024
4.	Clothing Textiles	Dr. Shweta Saxena	NITRA Publications	June 2024
5.	Composites	Dr. Roopam Chauhan	NITRA Publications	July 2024
6.	Geo Textiles	R.K. Gaur & Dr. Preeti Kaur Sachdeva	NITRA Publications	Aug 2024
7.	Home Textiles	Pankaj Kumar & Ravi Sonkar	NITRA Publications	July 2024
8.	Industrial Textiles	Dr. Sundaramoorthy P.	NITRA Publications	July 2024
9.	Medical Textiles	Dr. Arindam Basu	NITRA Publications	July 2024
10.	Oeko Textiles	Dr. Preeti Kaur Sachdeva	NITRA Publications	July 2024
11.	Packaging Textiles	Kuldeep Yadav	NITRA Publications	July 2024
12.	Protective Textiles	Dr. M.S. Parmar	NITRA Publications	July 2024
13.	Sports Textiles	Kushagra Prakash	NITRA Publications	July 2024
14.	Weaving Hand Book Part 2- Weaving Preparatory	Anil Kumar Pandey	NITRA Publications	April 2024
15.	Weaving Hand Book Part 1- Powerloom Weaving (Reprinting)	Anil Kumar Pandey	NITRA Publications	November 2024

**TRAINING PROGRAMS, WORKSHOPS AND SEMINARS CONDUCTED**

S. No.	Nature of Program	Venue	Division	No. of batches	No. of trainees
1.	Fashion Marketing and Merchandising	NITRA Ghaziabad	Garment Centre	01	27
2.	Apparel Design and Quality Control	NITRA Ghaziabad	Garment Centre	01	20
3.	Apparel Production and Industrial Engg	NITRA Ghaziabad	Garment Centre	01	09
4.	Textile Technology and Management (DLP)	NITRA Ghaziabad	Garment Centre	01	25
5.	Apparel Manufacturing and Merchandising (DLP)	NITRA Ghaziabad	Garment Centre	01	15
6.	Quality Evaluation of Textiles and Garments (DLP)	NITRA Ghaziabad	Garment Centre	01	25
7.	Training Programme on Manufacturing of Home Textiles	Sukhvarsha Projects, Noida	Garment Centre	01	07
8.	Training Programme on Quality Control in Home furnishing	Radiant Expovision Pvt. Ltd, Noida	Garment Centre	01	25
9.	Training Programme on Quality Control in Apparel Manufacturing	Paramount Products, Noida	Garment Centre	01	29
10.	Testing of Physical and Chemical Parameters of Textiles for airforce officers (February 19-21, 2025)	NITRA, Ghaziabad	PTTD/ CQE & PQE	01	03
11.	How to Convert an Idea into Business (16 <sup>th</sup> Jan 2025)	NTC Seminar Hall	CSE & AIML	01	104
12.	Land Your Dream Internship & Job (05 <sup>th</sup> Mar 2025)	Online	CSE & AIML	01	83
13.	Build with AI: Latest AI advancements and Hands on Industry application (07 <sup>th</sup> Mar 2025)	NTC Seminar Hall	CSE & AIML	01	80

S. No.	Nature of Program	Venue	Division	No. of batches	No. of trainees
14.	Students Development Program on Project Excellence- Mastering your Minor and Major Projects with Real World Case Studies (16 <sup>th</sup> Oct 2024)	Online	CSE	01	105
15.	IIT Ropar Webinar- Maximizing Jobs & Internship Opportunities (26 <sup>th</sup> Oct 2024)	Online	CSE	01	208
16.	Development of Jute Composite for Automotive Acoustic Insulation & Other uses organized by NITRA & NJB on August 2, 2024	Hotel IBIS, New Delhi	PTTD/CQE/G C/PQE	01	35
17.	Molten Metal Splash Resistance Unique Jute-Cotton Based Workwear for Steel Foundry Workers organized by NITRA & NJB on September 26, 2024	Senate -3, A-Hotel, Ludhiana	CQE/PTTD/G C/PQE	01	50
18.	IoT and AI Integration-Enhancing Startup Capabilities Through Advanced Technologies (27 <sup>th</sup> July 2024)	Online	CSE	01	92
19.	Students Development Program on Salesforce Developer (23 <sup>rd</sup> September 2024)	Online	CSE	01	121
20.	Maximizing Jobs & Internship opportunities: Advanced Technologies from IIT, Mandi (29 <sup>th</sup> September 2024)	Online	CSE	01	65
21.	Workshop on 'Salesforce' for its TT, CSE and AIML students (30 <sup>th</sup> April, 2024).	NITRA Technical Campus	CSE	01	56
22.	An online training program on Staying Relevant in the Job Market in the Age of AI (14 <sup>th</sup> June, 2024).	NITRA Technical Campus	CSE	01	75
23.	An online training program on Career Guidance Session via Next wave (5 <sup>th</sup> May, 2024).	NITRA Technical Campus	CSE	01	92
24.	Training Program on Data Visualization and Analysis (24 <sup>th</sup> November)	CSE Department, NTC in association with Anudip Foundation, Noida	CSE	01	97

## INSPECTION &amp; CONSULTANCY SERVICES

S.No.	Type of Inspection / Consultancy	Division	No. of Units
<b><u>Inspection Services:</u></b>			
1.	Third party inspection of Woolen Jersey	MPD (Spg & Wvg)/ PTTD	07
2.	Third Party Inspection of Cloth Serge Dress	MPD (Spg & Wvg)/ PQE	01
3.	Third Party Inspection of Full Body Protector (male)	MPD (Spg & Wvg)/ PTTD	02
4.	Third Party Inspection of cloth Gabardine	MPD (Spg & Wvg)/ PQE	02
5.	Third Party Inspection of Terry Towel	MPD (Spg & Wvg)/ PQE/ PTTD	08
6.	Third party inspection of Barrack/Hospital/ Ground Sheet	MPD (Spg & Wvg)/ PQE	03
7.	Third Party Inspection of Rucksack 30 Litres	MPD (Spg & Wvg)/ PTTD	01
8.	Third Party Inspection of Vest thermal	MPD (Spg & Wvg)/ PTTD	03
9.	Third Party Inspection of T Shirt	MPD (Spg & Wvg)/ PQE/ PTTD	08
10.	Third Party Inspection of Shirt Angola Cloth	MPD (Spg & Wvg)/ PQE/ PTTD	08
11.	Third Party Inspection of Rain Cape	MPD (Spg & Wvg)/ PQE	02
12.	Third Party Inspection of Blanket	MPD (Spg & Wvg)/PQE/ PTTD/ M&P	08
13.	Third Party Inspection of Bala Clava	MPD(Spg & Wvg)/ PQE	04
14.	Third Party Inspection of Anti Riot Helmet Advanced/ Large Riot Control Helmet	MPD (Spg & Wvg)/ PTTD	02
15.	Third Party Inspection of Coat Combat	MPD (Spg & Wvg)/ PQE/ PTTD	12
16.	Third Party Inspection of uniform cloth	MPD (Spg & Wvg)/ PTTD	02
17.	Third Party Inspection of Disruptive Pattern	MPD (Spg & Wvg)/ PQE/ PTTD	03
18.	Third Party Inspection of Polycarbonate Shield	MPD (Spg & Wvg)/ PTTD/PQE	04
19.	Third Party Inspection of Light weight Sleeping Bag	MPD (Spg & Wvg)/ PQE/PTTD	08
20.	Third Party Inspection of Short Drawer Cotton	MPD (Spg & Wvg)/ PQE	01

S.No.	Type of Inspection / Consultancy	Division	No. of Units
21.	Third Party Inspection of Tie	MPD (Spg & Wvg)/ PTTD	01
22.	Third Party Inspection of Tent Glacier	MPD (Spg & Wvg)	01
23.	Third Party Inspection of Wool/ Polymide Blended flannel	MPD (Spg & Wvg)/ PTTD	01
24.	Third Party Inspection of Cold weather thermal	MPD (Spg & Wvg)/ PTTD	02
25.	Third Party Inspection of Thermal under paint	MPD (Spg & Wvg)/ CQE/ PTTD	02
26.	Third Party Inspection of Rib vest	MPD (Spg & Wvg)/ PTTD	01
27.	Third Party Inspection of Kit bag universal	MPD (Spg & Wvg)	02
28.	Third Party Inspection of Cap comforter	MPD (Spg & Wvg)	01

#### Consultancy Services:

1.	Setting UP 1200 KLD ZLD Model in Bhilwara, Rajasthan	R&D Cell	01
2.	Up gradation of 800 KLD ETP in Bhilwara, Rajasthan	R&D Cell	01
3.	Pollution Prevention and Effective Waste Management of the units in Panipat Textile Cluster	R&D Cell	01
4.	Modernization Required for Plant Machineries Focused on Performance, Health and Ageing	MPD (Spg. & Wvg.), R&D Cell & Eng.	01
5.	Valuation of fixed assets (Plant and machineries) of Kashipur & Jaspur Unit under SIDCUL	MPD (Spg. & Wvg.)	02
6.	Capacity verification of Winter Jacket for Delhi Police, Noida	Garment Centre	01
7.	Manpower & Workload Study in Spg. Unit	MPD (Spg. & Wvg.) & R&D Cell	02
8.	Process Audit	MPD (Spg. & Wvg.)	01
9.	Energy Audit	Engg. Division	05
10.	Trouble Shooting for CEPT	R&D Cell	02
11.	Safety Audit	Engg. Division	10
12.	Pollution Prevention and Waste Management in the Panipat Cluster	R&D Cell	01

## STAFF PARTICIPATION IN HRD PROGRAMS

Sl. No.	Details of the program	Venue	Date	Participants status
1.	3rd International Conference on Disruptive Technologies (ICDT-2025)	GL Bajaj Institute of Technology and Management, Greater Noida, India	7 <sup>th</sup> -8 <sup>th</sup> March 2025	Dr. Anand Prakash Srivastava (Reviewer) Mr. Abhineet Suman (Reviewer)
2.	Global AI Summit - 2024	Bennett University, Greater Noida.	6 <sup>th</sup> September 2024	Dr. B.K. Sharma (As Session Chair)
3.	Introductory FDP on UHV by NCCIP,AICTE	UPID, Noida	05 <sup>th</sup> to 7 <sup>th</sup> September 2024	Mr. M.K. Bansal Ms. Priya Tyagi (As a Participants)
4.	International Faculty Development Program on GenAI and prompt Engineering using Microsoft Co-Pilot	Online Mode	16 <sup>th</sup> to 20 <sup>th</sup> Sept. 2024	Anand P. Srivastava, Priya Tyagi, Divya Pachauri, Nitin Kumar Sharma, Abhineet Suman (As a Participants)
5.	Tech Savviness & How its' an Essential for Modern Educators	Online Mode	14 <sup>th</sup> Sep. 2024	Anand P. Srivastava (As a Participant)
6.	Online FDP Program on Advances in Computing Technology	Amity University	13 <sup>th</sup> -17 <sup>th</sup> May 2024	Nitin Kumar Sharma, Divya Pachauri, Priya Tyagi & Abhineet Suman (As a Participants)
7.	Bharat Tex 2025	Bharat Mandapam, Pragati Maidan, New Delhi	14 <sup>th</sup> -17 <sup>th</sup> Feb. 2025	NITRA Technical Officers & Staff (As a Participants)
8.	National Symposium on "Threads of Heritage: Exploring Traditional Textiles and Natural Fibres"	College of Post-Graduate Studies in Agricultural Studies (CPGS-AS), Shillong, Meghalaya	28 <sup>th</sup> Jan. 2025	Dr. Nidhi Sisodia (as speaker)
9.	Webinar on "Mission for Cotton Productivity"	Online	27 <sup>th</sup> May, 2024	Dr. M. S. Parmar (as one of the

<b>Sl. No.</b>	<b>Details of the program</b>	<b>Venue</b>	<b>Date</b>	<b>Participants status</b>
10.	CITI Textile sustainability awards 2025 function	Bharat Mandapam Pragati Maidan, New Delhi	17 <sup>th</sup> Feb, 2025	Penalists) Dr. Arindam Basu (as Moderator of the session)
11.	Lucknow Investors Meet organized by Govt. of U.P.	PM MITRA Park, Hotel Taj Mahal, Lucknow	22 <sup>nd</sup> March 2025	Dr. M. S. Parmar (as Moderator of the session)

## ADDITIONAL SERVICES TO NITRA MEMBERS

NITRA has been providing laudable services to member units since its inception in 1974. Besides offering services to meet their ever changing needs, it also offers substantial benefit package to member units to strengthen the mutual relationship. Following is a spectrum of additional services provided to individual member units:

### 1. Centre for Academic Partnership Scheme (CAPS)

In a bid to diversify our activities and to intensify interaction with academic institutions and to augment techno-education base of the country as a whole, NITRA offers library & information service to the students, faculty and researchers of various colleges and institutions through participation in "Centre for Academic Partnership Scheme (CAPS)". Institutions interested to avail this unique service may obtain membership at a nominal admission fee of Rs.20,000/- only. Apart from this, a nominal sum of Rs.500/- per year will be charged to the individual user to issue his/her library card. For further details please contact the Librarian.

### 2. Concessional Enrolment Fee in Workshops/ Seminars/ Conferences/ Training Programmes etc.

The enrolment fee for participating in Training Programmes/Workshops/Seminars/Conferences conducted by NITRA is much less for member units as compared to non-member units.

### 3. Discount on Testing Charges

Testing charges for NITRA's member units in various testing labs are 30% (for Ordinary members) and 10% (for Associate members) discounted as compared to non-member units.

### 4. Discount on Publications

10% discount is offered on the purchase of NITRA publications to its member units.

### 5. Free Library Service

Member units can reap rich harvest by consulting the vast and well stocked NITRA library, services during any working day.

## JOURNALS SUBSCRIBED BY NITRA LIBRARY

S. No.	Name of Journal	Frequency
1.	AATCC Review	Bimonthly
2.	Asian Dyer	Bimonthly
3.	Asian Textile Journal	Monthly
4.	Asian Technical Textile Journal	Quarterly
5.	Apparel Online	Monthtly
6.	Colourage	Monthly
7.	Digit	Monthly
8.	Competition Success Review	Monthly
9.	IETE Journal of Research	Monthly
10.	Indian Textile Journal	Monthly
11.	Journal of the Institution of Engineers (India): Section B	Bimonthly
12.	Journal of the Institution of Engineers (India): Section E	Biannually
13.	Journal of Textile Institute	Monthly
14.	Textile Progress	Quarterly
15.	The Textile Magazine	Monthly
16.	Textiles Magazine	Triannually

**JOURNALS RECEIVED ON COMPLIMENTARY BASIS**

<b>S.No.</b>	<b>Name of Journal</b>	<b>Frequency</b>
1.	Apparel India	Quarterly
2.	Banasthali Vidyapith News Letter	Quarterly
3.	Fibre 2 Fashion	Monthly
4.	Texprocil Newsletter	Monthly
5.	Textile Value Chain	Monthly

**PLACEMENT OF STUDENTS OF NITRA TECHNICAL CAMPUS**  
(As on 31.03.2025)

**Branch: Textile Technology**

S.No.	Student Name	Name of Company	Salary Offered (Rs. Lacs/annum)
<b><u>2024-25</u></b>			
1	Vivek Singh	Alok Industries	5.0
2	Ankit	Alok Industries	5.0
3	Priyanshi Pal	Alok Industries	5.0
4	Rohit Sharma	Reliance Industries Ltd.	5.0
5	Tarun Tomar	Reliance Industries Ltd.	5.0
6	Manoj	Reliance Industries Ltd.	5.0
7	Sahil	Vardhman Textiles Ltd.	4.5
<b><u>2023-24</u></b>			
1	Anushka Kumari	Sahi Exports, Ghaziabad	2.8
2	Harshita Srivastava	SMPP, Delhi	3.0
3	Arin Tyagi	SMPP, Delhi	3.0
4	Krishna Kumar Yadav	Khosla Profil	3.0
5	Himanshu Pal	Khosla Profil	3.0
6	Sachin Kumar Morya	Khosla Profil	3.0

**Branch: Computer Science & Engineering**

S.No.	Student Name	Name of Company	Salary Offered (Rs. Lacs/annum)
<b><u>2024-25</u></b>			
1.	Rupesh Kumar Gupta	Paytm, Noida	3.0 LPA
2.	Akaash Tripathee	Paytm, Noida	3.0 LPA
3.	Pooja Srivastava	Yes IT Lab, Noida	1.8 to 2.4 LPA
4.	Ananya Chaturvedi	Innokit System Pvt. Ltd.	4.2 LPA
5.	Asif	Innokit System Pvt. Ltd.	4.2 LPA
6.	Deepak Yadav	Optiontown Software Pvt Ltd.	1.8 to 2.4 LPA
7.	Nitesh Kumar	Innokit System Pvt. Ltd.	4.2 LPA
8.	Ujjwal Mishra	Q Spiders, Noida.	3.5 to 5.5 LPA
9.	Abhishek Bharti	GenZ Educate Wing	3 to 5 LPA
10.	Apoorv Deep Sahu	"The Aviyaan" Unit of Shri KLS Hospitality Pvt. Ltd	2.4 LPA
11.	Sachin Panday	Aptara	2.4 to 6 LPA
12.	Sahil Gupta	Adroit Synergies Pvt Ltd, Noida	1.8 to 2.4 LPA
13.	Divakar Gaur	GenZ Educate Wing	3 to 5 LPA
14.	Epsit Bhardwaj	Globalsign.In (India) Pvt. Ltd., Hyderabad	2.16 LPA
15.	Niharika Kumari	Q Spider/J Spider (Unit of Test Yantra Software Solutions (I) Pvt. Ltd	3.5 to 5.5 LPA
16.	Tripti	Q Spider/J Spider (Unit of Test Yantra Software Solutions (I) Pvt. Ltd	3.5 to 5.5 LPA
17.	Sakshi Choudhary	eSec Forte Technologies Pvt. Ltd	3.20 LPA
18.	Sachin Chaurasia	NetWings IT Solutions	1.8 to 3.0 LPA
19.	Mansi Singh	NetWings IT Solutions	1.8 to 3.0 LPA
20.	Ambuj Lath	Global logic	1.8 to 3.0 LPA
21.	Om Ji Dwivedi	Innokit System Pvt. Ltd.	4.2 LPA
22.	Rohit Kumar Yadav	Optiontown Software Pvt Ltd.	1.8 to 2.4 LPA
23.	Sarthak Saxena	To the New	4.0 LPA



Sh. Sandeep Hora, Dy. Chairman, NITRA felicitates Sh. Rajeev Saxena, Jt. Secretary, MoT, Gol at the 62<sup>nd</sup> Joint Technological Conference while Smt. Roop Rashi, Textile Commissioner, Gol looks on



Sh. Sandeep Hora, Dy. Chairman, NITRA, (center) chairs a session at the 62<sup>nd</sup> Joint Technological Conference. Also seen are Dr. M.S. Parmar, Director General, NITRA and others presenters of the session



Sh. Vidit Jain, Chairman, NITRA, doing honour to the Chief Guest, Sh. Giriraj Singh, Hon'ble Union Minister of Textiles, Gol at the 62<sup>nd</sup> Joint Technological Conference held at NITRA



Sh. Giriraj Singh, Hon'ble Union Minister of Textiles, Gol inaugurates the Technology Exhibition organized during the 62<sup>nd</sup> JTC. Also seen are NITRA Council members, senior officials and scientists from NITRA



A section of audience at the inaugural session of the 62<sup>nd</sup> Joint Technological Conference organized at NITRA



Dr. M. S. Parmar Director General, NITRA (2<sup>nd</sup> from left) in a session at the Investors Meet organized at PM MITRA Park, Lucknow by Govt. of UP with CII



Dr. M. S. Parmar, Director General, NITRA talks on 'Sustainable Textiles' in a session at the Investors Meet organized at PM MITRA Park, Lucknow by Govt. of UP with CII



Sh. Sandeep Hora, Dy. Chairman, NITRA addresses at NITRA's 19<sup>th</sup> Convocation Ceremony. Also seen are (L-R) Dr. Arindam Basu, Former Director General, Sh. Vidit Jain, Chairman, Sh. Raj Kumar Jain, Former Chairman, and Dr. M. S. Parmar, Director General



A pass-out student being awarded certificate at NITRA's 19<sup>th</sup> Convocation Ceremony by respected members of NITRA Governing Council



At the inaugural ceremony of NITRA-NJB Seminar at Ludhiana



NITRA employees who dedicatedly served the organization for more than 25 years are felicitated at the 62<sup>nd</sup> JTC



Dr. Arindam Basu, Former Director General and Dr. M. S. Parmar, Director General along with some research scientists at NITRA Pavilion, Bharat-Ex 2025, New Delhi

**AUDITOR'S REPORT**

**&**

**BALANCE SHEET**







## **AUDITOR'S REPORT**

### **Opinion:**

We have audited the Balance sheet and Income and Expenditure of 'NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION' for the year ended, including a summary of significant accounting policies. In our opinion, the accompanying financial statements give a true and fair view of the financial position of the Company as at 31.03.2025, and of its Income and Expenditure for the year then ended in accordance with the Accounting Standards issued by the Institute of Chartered Accountants of India (ICAI).

### **Basis for Opinion:**

We conducted our audit of financial statements in accordance with the Standards on Auditing (SAs). Our responsibilities under those Standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report.

We are independent of the Company in accordance with the Code of Ethics issued by the Institute of Chartered Accountants of India (ICAI) together with the independence requirements that are relevant to our audit of the standalone financial statements under the provisions of the Act and the Rules made there under, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ICAI's Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the standalone financial statements.

### **Responsibilities of Management and Those Charged with Governance for the Financial Statements:**

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the aforesaid Accounting Standards, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error. In preparing the financial statements, management is responsible for assessing the entity's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the entity or to cease operations, or has no realistic alternative but to do so. Those charged with governance are responsible for overseeing the entity's financial reporting process.

### **Auditor's Responsibilities for the Audit of Financial Statements:**

Our Objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in aggregate, they could reasonably be expected to influence the economic decision of users taken on the basis of these standalone financial statements.

As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and to obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the company's ability to continue as a going concern. If we conclude that material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the standalone financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusion is based on the audit evidences obtained up to the date of our auditor's report. However, future events or conditions may cause the company to cease to continue as a going concern.
- Evaluate the overall presentation, Structure and content of the standalone financial statements, including the disclosures, and whether the standalone financial statements represent the underlying transactions and events Qtr a manner that achieves fair presentation.

Materiality is the magnitude of misstatements in financial statement that, individually or in aggregate, makes it probable that the economic decision of a reasonably knowledgeable user of the financial statements may be influenced. We consider quantitative materiality and qualitative factor in (i) planning the scope of our audit work; and (ii) to evaluate the effect of any identified misstatement in the financial statements.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide that charge with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

**For B.K. KAPUR & CO.  
Firm Registration No.000852C  
Chartered Accountants**

Sd/-

**(M.S. KAPUR) F.C.A.**

**Partner**

**Membership No.074615**

Place: Ghaziabad

Dated: 2<sup>nd</sup> AUGUST 2025

UDIN: 25074615BMGJHI6483

**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION, GHAZIABAD**  
**BALANCE SHEET AS AT 31<sup>ST</sup> MARCH 2025**

(Amount in Rs.)

	Particulars	Note No.	As at 31.3.2025	As at 31.3.2024
I.	<b>EQUITY AND LIABILITIES</b>	1	55,48,67,937	54,81,67,261
(1)	<b>Capital Funds</b>		<b>55,48,67,937</b>	<b>54,81,67,261</b>
(2)	<b>Reserves &amp; Surplus and General Reserve (Including R&amp;D)</b>	2	18,27,39,729	13,11,22,222
			<b>18,27,39,729</b>	<b>13,11,22,222</b>
(3)	<b>Current Liabilities</b>			
	Trade Payables	3	42,61,573	57,52,736
	Other Current Liabilities	4	12,32,60,173	11,32,72,322
			<b>12,75,21,746</b>	<b>11,90,25,058</b>
	<b>Total (1 to 3)</b>		<b>86,51,29,412</b>	<b>79,83,14,541</b>
II.	<b>ASSETS</b>			
(1)	<b>Non-Current Assets</b>			
	Property, Plant and Equipment	5	52,42,91,741	51,35,42,864
			<b>52,42,91,741</b>	<b>51,35,42,864</b>
(2)	<b>Current Assets</b>			
	Trade Receivable	6	59,43,755	66,25,928
	Grant Receivable's	7	2,53,59,530	1,90,81,987
	Cash and Bank Balances	8	18,56,17,771	13,86,76,817
	Short term Loans & Advances	9	12,39,16,615	12,03,86,945
			<b>34,08,37,671</b>	<b>28,47,71,677</b>
	<b>Total (1 to 2)</b>		<b>86,51,29,412</b>	<b>79,83,14,541</b>

Significant accounting policies and accompanying Notes are integral part of the –  
Annexure - G. As per our report of even date attached

Sd/-  
**CHAIRMAN**  
Governing Council

Sd/-  
**CHAIRMAN**  
Finance & Adm  
Committee

Sd/-  
**DIRECTOR**  
**GENERAL**

Sd/-  
**DY. MANAGER**  
**ACCOUNTS**

For **B.K.KAPUR & CO.**  
Chartered Accountants  
Firm Registration No. 000852C

Sd/-  
**(C.A. M.S. KAPUR)**  
**(PARTNER)**  
Membership No. 074615  
UDIN No. 25074615BMGJHI6483

Place: GHAZIABAD  
Date : 02.08.2025

**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION, GHAZIABAD**

**Statement of Income and Expenditure for the year ending 31<sup>st</sup> March 2025**

*(Amount in Rs.)*

	Particulars	Note No.	As at 31.3.2025	As at 31.3.2024
<b>I.</b>	<b>Income</b>			
	Income	10	18,27,09,487	15,26,85,839
	Other Income	11	2,07,61,163	1,61,29,267
	<b>Total Revenue</b>		<b>20,34,70,650</b>	<b>16,88,15,106</b>
<b>II.</b>	<b>Expenses</b>			
	Expenditure of Establishment	12	7,37,33,876	5,87,87,105
	Expenditure on Projects	13	2,66,83,225	1,87,69,752
	Depreciation	5	61,59,683	53,09,911
	Expenditure on Power Loom Service Centers	14	1,69,73,095	1,56,85,864
	Expenditure in General Administration	15	2,83,03,264	2,83,93,707
	<b>Total Expenses</b>		<b>15,18,53,143</b>	<b>12,69,46,339</b>
	<b>(Deficit) – Excess of Income over Expenditure Transfer to Reserves/Capital</b>		<b>5,16,17,507</b>	<b>4,18,68,767</b>

**Balance Available for appropriation**

**Transfer to R&D Reserve**

**3,00,00,000**

**2,50,00,000**

**Transfer to General Reserve**

**2,16,00,000**

**1,68,00,000**

**Transferred to Reserve & Surplus**

**17,507**

**68,767**

**Significant accounting policies and accompanying Notes are integral part of the – Annexure - G. As per our report of even date attached**

Sd/-  
**CHAIRMAN**  
Governing Council

Sd/-  
**CHAIRMAN**  
Finance & Adm  
Committee

Sd/-  
**DIRECTOR**  
**GENERAL**

Sd/-  
**DY. MANAGER**  
**ACCOUNTS**

For **B.K.KAPUR & CO.**  
**Chartered Accountants**  
Firm Registration No. 000852C

Sd/-  
**(C.A. M.S. KAPUR)**  
**(PARTNER**  
Membership No. 074615  
UDIN No. 25074615BMGJHI6483  
Place : GHAZIABAD  
Date : 02.08.2025

**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION GHAZIABAD**

**Notes to the Financial Statements as at 31<sup>st</sup> March 2025**

**1 Capital Fund**

**a Corpus**

(Amount in Rs.)

Particulars	31.03. 2025	31.03. 2024
<b>Capital Fund</b>		
As per Last Balance Sheet	84,72,219	84,17,219
Admission fees during the year	70,000	55,000
<b>Total</b>	<b>85,42,219</b>	<b>84,72,219</b>

**Annexure A**

**b Assets created out of grants**

Particulars	31.03.2025	31.03.2024
<b>Capital Fund</b>		
As per Last Balance Sheet	53,96,95,042	53,96,95,042
Addition during the Year	66,30,676	-
<b>Total</b>	<b>54,63,25,718</b>	<b>53,96,95,042</b>
<b>Total(A+B)</b>	<b>55,48,67,937</b>	<b>54,81,67,261</b>

**Annexure B**

**2 Reserve and surplus and General reserve**

(Amount in Rs.)

Particulars	31.03. 2025	31.03. 2024
<b>(a) <u>Reserve and surplus</u></b>		
As per Last Balance Sheet	43,60,633	43,60,633
Addition during the Year	17,507	-
<b>(b) <u>General reserve</u></b>		
As per Last Balance Sheet	2,37,00,000	2,37,00,000
Addition during the Year	2,16,00,000	-
<b>(c) <u>R&amp;D reserve</u></b>		
As per Last Balance Sheet	10,30,61,589	7,80,61,589
Addition during the Year	3,00,00,000	2,50,00,000
	<b>18,27,39,729</b>	<b>13,11,22,222</b>

**3 Trade Payables**

Particulars	31.03. 2025	31.03. 2024
<b>Trade Payable</b>		
Trade payable	42,61,573	57,52,736
<b>Total</b>	<b>42,61,573</b>	<b>57,52,736</b>

**4 Other Current Liabilities**

(Amount in Rs.)

Particulars	31.03. 2025	31.03. 2024
Provisions	40,15,068	27,23,549
Statutory Dues	19,56,572	22,94,111
Letter of credit agreement	7,70,00,000	8,36,76,000
Bank balance (Cr.)	1,24,35,730	63,57,161
Security Deposit & Advance received	2,78,52,803	1,82,21,501
<b>Total</b>	<b>12,32,60,173</b>	<b>11,32,72,322</b>

**5 Property, Plant & Equipment Annexure - C****6 Trade Receivables**

Particulars	31.03.2025	31.03.2024
<b>Trade Receivables</b>		
Trade Receivables	59,43,755	66,25,928
<b>Total</b>	<b>59,43,755</b>	<b>66,25,928</b>

**7 Grant Receivables**

Annexure- D

(Amount in Rs.)

Particulars	31.03. 2025	31.03. 2024
Grant Pending Utilization/ Receivables	2,53,59,530	1,90,81,987
<b>Total</b>	<b>2,53,59,530</b>	<b>1,90,81,987</b>

**8 Cash & Bank**

(Amount in Rs.)

Particulars	31.03. 2025	31.03. 2024
<b>Cash and cash equivalents</b>		
On current accounts	54,98,216	58,49,223
Cash on hand	2,22,763	1,95,293
<b>Other bank balances</b>		
Bank Deposits (Including Earmarked Deposit)	17,98,96,792	13,26,32,301
<b>Total</b>	<b>18,56,17,771</b>	<b>13,86,76,817</b>

9 **Short-Term Loans & Advances** (Unsecured, considered good)

(Amount in Rs.)

<b>Particulars</b>	<b>31.03. 2025</b>	<b>31.03. 2024</b>
<b>Others Loans &amp; Advances</b>		
Advance to Suppliers	3,79,903	1,56,279
other receivables	3,13,77,689	2,74,91,894
Prepaid Expenses	4,62,142	4,91,880
FDR with bank Against LC under NTTM Project	7,70,00,000	8,36,76,000
Security Deposits	19,05,938	18,95,938
Accrued income	1,27,90,943	66,74,954.00
<b>Total</b>	<b>12,39,16,615</b>	<b>12,03,86,945</b>

**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION GHAZIABAD**

**Notes to the Financial Statements as at 31<sup>st</sup> March 2025**

**10 Income**

(Amount in Rs.)

<b>Particulars</b>	<b>31.03. 2025</b>	<b>31.03. 2024</b>
Grant-in-Aid to meet Recurring Expenditure (Non Plan)	2,00,00,000	2,00,00,000
Industry Contribution (Testing, Training, Inspection, Consultancy, Membership Subscription) and Educational services	12,11,28,728	10,03,53,262
Grant-in-Aid to meet Expenditure on Projects	2,66,83,225	1,87,69,752
Grant-in-Aid to meet Expenditure at Powerloom Service Centres	1,48,97,534	1,35,62,825
<b>Total</b>	<b>18,27,09,487</b>	<b>15,26,85,839</b>

**11 Other Income**

(Amount in Rs.)

<b>Particulars</b>	<b>31.03. 2025</b>	<b>31.03. 2024</b>
Overhead Recovery on R&D Projects	64,96,792	66,55,190
NITRA Publications	75,631	35,865
Income from Investments	1,19,78,941	69,08,822
Waste field cotton & Yarn & Income from land utilization	8,24,274	7,75,330
Application Forms	60,700	58,400
Miscellaneous Income	4,01,583	4,37,042
Balances write back	26,479	12,58,618
JTC	8,96,763	-
<b>Total</b>	<b>2,07,61,163</b>	<b>1,61,29,267</b>

**12 Expenditure of Establishment**

(Amount in Rs.)

Particulars	31.03. 2025	31.03. 2024
NITRA	8,55,55,335	6,80,95,857
Less :Transferred to Expenditure on Projects	1,18,21,459	93,08,752
<b>Total</b>	<b>7,37,33,876</b>	<b>5,87,87,105</b>

**13 Expenditure on Projects Annexure - E**

(Amount in Rs.)

Particulars	31.03. 2025	31.03. 2024
Expenditure on Projects (Annexure -A)	2,66,83,225	1,87,69,752
<b>Total</b>	<b>2,66,83,225</b>	<b>1,87,69,752</b>

**14 Expenditure on Power Loom Service centre Annexure - F**

(Amount in Rs.)

Particulars	31.03. 2025	31.03. 2024
TANDA	14,68,877	14,33,310
MERRUT	24,19,553	23,10,214
KANPUR	19,70,146	19,88,341
LUDHIANA	16,49,457	18,10,423
GORAK PUR	16,10,524	13,92,324
PANIPAT	22,04,250	20,41,172
BHILWARA	22,78,734	23,45,897
VARANASI	21,49,653	20,45,583
CHIEF MINISTER HANDLOOM & POWER LOOM TRAINING	12,21,900	3,18,600
<b>Total</b>	<b>1,69,73,095</b>	<b>1,56,85,864</b>

**15 Expenditure on General Administration**

(Amount in Rs.)

<b>Particulars</b>	<b>31.03. 2025</b>	<b>31.03. 2024</b>
Electricity Charges & DG Running	41,67,677	35,00,463
Traveling & Conveyance	7,43,541	11,56,124
ITMA 2023	-	8,54,746
Building Maintenance & Housekeeping	11,94,893	9,49,718
Repairs Plant & Machinery, Computer, Building & others	46,99,176	27,00,471
Legal & Professional Exps.	9,86,710	13,69,966
NABL Calliberation Exps.	5,32,195	10,42,600
Security Arrangement	17,60,493	18,51,651
Books, Periodicals & Publication	10,48,057	4,76,534
Advertisement exps	13,45,198	15,39,187
Insurance	3,85,641	4,06,150
Cultivation / Horticulture Exps.	8,97,185	8,51,602
Postage ,Telephone & Internet Exps	8,64,274	7,73,535
Car Running & Maintenance	4,87,195	3,65,061
Printing & Stationery	11,59,125	8,98,124
Chemicals, Glassware , Spares Stores Consumed	18,12,223	16,71,652
Training & Seminar Exps.	3,96,188	4,86,701
Meeting Exps.	2,24,767	3,30,390
In House Project Exps.	10,96,371	10,63,248
Amount Write Off.	4,50,101	15,76,577
Audit fees	1,00,000	1,00,000
Testing lab exps., - Panipat, Bhilwara & Meerut	1,00,164	73,672
Previous Year Exps.	-	1,73,671
Other Expenses	13,13,317	16,43,091
Rates & Taxes	25,38,773	25,38,773
<b>Total</b>	<b>2,83,03,264</b>	<b>2,83,93,707</b>

## Annexure - A

*(Amount in Rs.)*

<b>CAPITAL FUNDS</b>	<b>As at 31.3.2025</b>	<b>As at 31.3.2024</b>
<b>Capital Corpus</b>		
a) Admission Fees (Members) Balance at the beginning	26,56,779	26,01,779
Receipts during the year	70,000	55,000
<b>Sub Total:</b>	<b>27,26,779</b>	<b>26,56,779</b>
b) Capital Contribution Balance at the beginning	34,13,530	34,13,530
Receipts during the year	-	-
<b>Sub Total :</b>	<b>34,13,530</b>	<b>34,13,530</b>
c) Donations Balance at the beginning	24,01,910	24,01,910
Receipts during the year	-	-
<b>Sub Total :</b>	<b>24,01,910</b>	<b>24,01,910</b>
<b>Total :</b>	<b>85,42,219</b>	<b>84,72,219</b>

## Annexure - B

(Amount in Rs.)

<b>CAPITAL FUND - ASSETS CREATED OUT OF GRANTS RECEIVED FROM GOVERNMENT AGENCIES</b>	<b>Balance As on 31.3.2024</b>	<b>Additions / Write-off during the year</b>	<b>Balance As on 31.3.2025</b>
<b><u>Capital Reserve: I – (Non Plan)</u></b>	32,76,379	-	32,76,379
<b>Sub Total :</b>	<b>32,76,379</b>	-	<b>32,76,379</b>
<b><u>Capital Reserve : II</u></b>			
(Sponsored Projects) - MOT	9,38,69,044	98,68,046 (21,80,522)	10,15,56,568
<b>Sub Total :</b>	<b>9,38,69,044</b>	98,68,046 (21,80,522)	<b>10,15,56,568</b>
<b><u>Capital Reserve : III</u></b>			
(Other Agencies) – NJB/DST /BIS	57,36,477	15,51,772 (4,50,506)	68,37,743
<b>Sub Total :</b>	<b>57,36,477</b>	15,51,772 (4,50,506)	<b>68,37,743</b>
<b><u>Capital Reserve : IV</u></b>			
(Power Loom Service Centres)	78,50,034	54,780	79,04,814
<b>Sub Total :</b>	<b>78,50,034</b>	54,780	<b>79,04,814</b>
<b><u>Capital Reserve : V</u></b>			
<b><u>(PLSC's income)</u></b>	6,31,610	-	6,31,610
<b>Sub Total :</b>	<b>6,31,610</b>	-	<b>6,31,610</b>
<b><u>Capital Reserve : VI</u></b>			
Government of Rajasthan for Bhilwara Centre	3,51,052	-	3,51,052
<b>Sub Total :</b>	<b>3,51,052</b>	-	<b>3,51,052</b>

<b>CAPITAL FUND - ASSETS CREATED OUT OF GRANTS RECEIVED FROM GOVERNMENT AGENCIES</b>	<b>Balance As on 31.3.2024</b>	<b>Additions / write-off during the year</b>	<b>Balance As on 31.3.2025</b>
<b><u>Capital Reserve : VII</u></b>			
Testing Lab Bhilwara, Panipat, Meerut & NITRA, Ghaziabad.	1,71,60,660	(22,12,894)	1,49,47,766
<b>Sub Total :</b>	<b>1,71,60,660</b>	<b>(22,12,894)</b>	<b>1,49,47,766</b>
<b><u>Capital Reserve : VIII</u></b>			
(CAD Centres at Bhilwara, Panipat & NITRA Ghaziabad)	72,26,565	-	72,26,565
<b>Sub Total :</b>	<b>72,26,565</b>	<b>-</b>	<b>72,26,565</b>
<b><u>Capital Reserve : IX</u></b>			
Modernisation of PLSC's	1,51,09,628	-	1,51,09,628
<b>Sub Total :</b>	<b>1,51,09,628</b>	<b>-</b>	<b>1,51,09,628</b>
<b><u>Capital Reserve : X - (CAD Tanda)</u></b>	4,13,482	-	4,13,482
<b>Sub Total :</b>	<b>4,13,482</b>	<b>-</b>	<b>4,13,482</b>
<b><u>Capital Reserve ; XI - (COE Protech)</u></b>	15,59,39,236	-	15,59,39,236
<b>Sub Total :</b>	<b>15,59,39,236</b>	<b>-</b>	<b>15,59,39,236</b>
<b><u>Capital Reserve ; XII - (ASIDE) (U.P. Govt. &amp; Nitra)</u></b>	8,43,87,200	-	8,43,87,200
<b><u>Capital Reserve ; XIII - (ISDS)</u></b>	11,87,15,198	-	11,87,15,198
<b><u>Capital Reserve ; XIV - FIC (COE)</u></b>	2,90,28,477	-	2,90,28,477
<b>GRAND TOTAL:</b>	<b>53,96,95,042</b>	<b>1,14,74,598 (48,43,922)</b>	<b>54,63,25,718</b>
<b>Previous year</b>	<b>52,24,60,626</b>	<b>1,72,34,416</b>	<b>53,96,95,042</b>

**A. Assets owned by NITRA**

S. No.	Fixed Assets	Total cost as on 31.3.24	Adjustment	Addition during the year 2024-25	Depreciated on during the year	WDV as on 31.3.25
1	Building *	48,13,718			2,40,686	45,73,032
	ASIDE Proj. Building (NITRA Share)	1,99,80,541			9,99,027	1,89,81,514
2	Air Conditioning Plant & Room AC	19,548			2,932	16,616
3	Furniture	6,55,019			65,202	5,89,517
4	Fixtures & Fittings	9,33,539		13,43,313	1,69,787	21,07,065
5	Office Equipments	10,06,586	17,170		1,51,442	8,37,974
	Computers	17,84,460		50,53,688	17,53,790	50,84,358
6	Cooler (Room & Water)	82,180			12,327	69,853
7	Vehicles	5,72,926			85,839	4,86,987
8	Fire Extinguisher	20,504			3,076	17,428
9	Intercom & Telephones	13,043			1,956	11,087
10	Machinery & Equipments (In House)	1,58,23,757	24,649	39,24,700	26,73,219	1,70,48,591
	<b>SUB-TOTAL</b>	<b>4,57,05,821</b>	<b>41,819</b>	<b>1,03,21,701</b>	<b>61,59,683</b>	<b>4,98,24,022</b>

**B. Assets acquired under Projects****Machinery & Equipments:**

A	Sponsored Projects**	6,78,10,464	26,31,028	1,14,19,819		7,65,99,254
B	CAD & Powerloom Service Centres**	2,64,55,983		54,780		2,65,10,763
C	Testing Lab, Panipat, Bhilwara & Meerut**	73,89,045	22,12,894			51,76,151
D	Testing Lab NITRA, Gzb**	47,78,640				47,78,640
E	Centre of Excellence Protech**	15,59,39,236				15,59,39,236
F	Focus Incubation Centre (CoE)**	2,90,28,477				2,90,28,477
G	ASIDE Govt. Share**	5,77,20,000				5,77,20,000
H	ISDS Project**	11,87,15,198				11,87,15,198
	<b>SUB-TOTAL</b>	<b>46,78,37,043</b>	<b>48,43,922</b>	<b>1,14,74,598</b>		<b>47,44,67,719</b>
	<b>GRAND TOTAL</b>	<b>51,35,42,864</b>	<b>48,85,741</b>	<b>2,17,96,299</b>	<b>61,59,683</b>	<b>52,42,91,741</b>

**NOTE:**

- \* The Building stands on leasehold land measuring 49.80 Acres from GDA for 90 years from 25.3.1980, the premium amounting to Rs. 47.15 lakhs was paid by the U.P. Government.
- \*\* No depreciation provided on items acquired in Powerloom Service Centres, CAD, Sponsored Projects, Testing Labs, COE, ASIDE & ISDS to the extent of the Grant given by the sponsor.

## Annexure - D

(Amount in Rs.)

S. No.	GRANTS PENDING UTILISATION / (Receivables)	Balance at the beginning	Receipts During the year	Adjustment/ Amount write off	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
<b>I.</b>	<b>NON-PLAN (Ministry of Textiles)</b>						
	Non-plan (Ministry of Textiles)	-	2,00,00,000	-	-	2,00,00,000	-
	NON-PLAN Previous Year	-	2,00,00,000	-	-	2,00,00,000	-
<b>II.</b>	<b>Plan (Ministry of Textiles &amp; other Agencies)</b>						
1.	Development of Fabric Smoothness Tester	(9,95,484)	7,99,000	1,96,484	-	-	-
2.	Development of regenerated cellulosic fibre Indian Bamboo	(17,65,192)	-	-	-	-	(17,65,192)
3.	Development of Jute composite for automotive acoustic insulation & other uses	(11,59,503)	5,62,100	-	-	-	(5,97,403)
4.	Development of a molten metal splash resistance unique Jute blended workwear for steel foundry workers	(9,88,122)	4,33,400	-	-	-	(5,54,722)
5.	Development of Flame Retardant Nylon 66 yarn / fibre Indigenously.	(6,27,331)	39,72,953	-	30,56,731	24,94,985	(22,06,094)
6.	Development of Specialized Firefighting Suit.	(1,42,213)	35,37,934	-	-	63,58,068	(29,62,347)
7.	Development of ceramic and UHMWPE Textile Based Hybrid Polymer composite Armor with MNIT, Jaipur.	12,82,764	-	-	-	19,60,864	(6,78,100)

S. No.	GRANTS PENDING UTILISATION / (Receivables)	Balance at the beginning	Receipts During the year	Adjustment/ Amount write off	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
8.	Cellulose based indigenous high C/o value and low-density surface modified natural fibre for developing thermal layers of extreme cold climate clothing.	(22,40,431)	40,02,831		-	25,29,072	(7,66,672)
9.	Development of Crop cover, mulch, soil protection fabrics and other products using sunhemp and Banana Fibre.	(19,84,715)	42,37,607		-	44,90,915	(22,38,023)
10.	Development of 3D High Performance Knitted Sports Textiles with Thermo-Physiological comfort and Impact Protective Properties.	(5,96,355)	25,14,107		-	22,27,667	(3,09,915)
11.	*Socio-economic development of SC/ST by providing training technology and market to convert local resources to industrial products (DST).	(14,36,614)	29,56,849		8,02,550	29,72,632	(22,54,947)
12.	Development of Indigenous State-of-the-art Instruments to test convective, radiant and conductive properties of protective textiles	-	38,74,400 19,37,200*	-	42,17,615	17,51,234	(1,57,249)
13.	Study of quality, performance and constructional parameters of Headliners for Automobiles (BIS)	-	8,00,000	-	76,700	9,47,523	(2,24,223)

S. No.	GRANTS PENDING UTILISATION / (Receivables)	Balance at the beginning	Receipts During the year	Adjustment/ Amount write off	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
14.	Study of safety and performance requirements of fire hoods for firefighter (BIS)	-	8,00,000	-	2,23,282	7,50,265	(1,73,547)
15.	Development and commercialization of Industrial hemp pultrusion cord & composites (under GREAT scheme)	-	2,00,000	-	-	2,00,000	-
	<b>Sub Total:</b>	<b>(1,06,53,196)</b>	<b>2,86,91,181 19,37,200*</b>	<b>1,96,484</b>	<b>83,76,878</b>	<b>2,66,83,225</b>	<b>(1,48,88,434)</b>
	<b>Previous Year:</b>	<b>(62,39,280)</b>	<b>11,53,88,972</b>	<b>-</b>	<b>10,10,33,136</b>	<b>1,87,69,752</b>	<b>(1,06,53,196)</b>
*Industry Partner Share.							
<b>III. POWER LOOM SERVICE CENTRES</b>							
1.	TANDA	12,00,000	12,00,000	95,635	-	12,95,635	12,00,000
2.	MEERUT	17,00,000	17,00,000	2,71,546	-	19,71,546	17,00,000
3.	LUDHIANA	15,00,000	15,00,000	45,700	-	15,45,700	15,00,000
4.	KANPUR	17,00,000	17,00,000	2,61,677	-	19,61,677	17,00,000
5.	GORAKHPUR	12,00,000	12,00,000	1,45,900	-	13,45,900	12,00,000
6.	PANIPAT	17,00,000	17,00,000	12,000	-	17,12,000	17,00,000
7.	BHILWARA	17,00,000	17,00,000	18,000	-	17,18,000	17,00,000
8.	VARANASI	19,50,191	15,00,000	6,25,176	-	21,25,176	19,50,191
	<b>Sub Total:</b>	<b>(1,26,50,191)</b>	<b>1,22,00,000</b>	<b>14,75,634</b>	<b>-</b>	<b>1,36,75,634</b>	<b>(1,26,50,191)</b>
	<b>Previous Year:</b>	<b>(1,26,50,191)</b>	<b>1,22,00,000</b>	<b>10,44,225</b>	<b>-</b>	<b>1,32,44,225</b>	<b>(1,26,50,191)</b>
	<b>Chief Minister Handloom &amp; Powerloom Training</b>	<b>42,21,400</b>	<b>6,19,595</b>	<b>14,40,000</b>	<b>-</b>	<b>12,21,900</b>	<b>21,79,095</b>
	<b>Grand Total:</b>	<b>(1,90,81,987)</b>	<b>6,15,10,776 19,37,200*</b>	<b>16,72,118 14,40,000</b>	<b>83,76,878</b>	<b>6,15,80,759</b>	<b>(2,53,59,530)</b>
	<b>Previous Year:</b>	<b>(1,88,89,471)</b>	<b>15,21,28,972</b>	<b>10,44,225</b>		<b>5,23,32,577</b>	<b>(1,90,81,987)</b>

## Annexure – E

**SPONSORED PROJECTS EXPENDITURE AND GRANT-IN-AID  
TO MEET THE EXPENDITURE**

(Amount Rs.)

S. No	Name of the Sponsored Project	2024-2025		2023-2024	
		Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c to meet sponsored Project Exp.	Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c to meet sponsored Project Exp.
1.	Development of regenerated cellulosic fibre Indian Bamboo	-	-	-	-
2.	Development of Jute composite for automotive acoustic insulation & other uses	-	-	34,59,712	34,59,712
3.	Development of a molten metal splash resistance unique Jute blended workwear for steel foundary workers	-	-	24,82,509	24,82,509
4.	Development of Flame Retardant Nylon 66 yarn / fibre Indigenously.	24,94,985	24,94,985	14,98,582	14,98,582
5.	Development of Specialized Firefighting Suit.	63,58,068	63,58,068	16,71,951	16,71,951
6.	Development of ceramic and UHMWPE Textile Based Hybrid Polymer composite Armor with MNIT, Jaipur.	19,60,864	19,60,864	1,57,236	1,57,236
7.	Cellulose based indigenous high C/o value and low-density surface modified natural fibre for developing thermal layers of extreme cold climate clothing.	25,29,072	25,29,072	23,18,616	23,18,616
8.	Development of Crop cover, mulch, soil protection fabrics and other products using sunnhemp and Banana Fibre.	44,90,915	44,90,915	30,70,047	30,70,047

S. No	Name of the Sponsored Project	2024-2025		2023-2024	
		Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c to meet sponsored Project Exp.	Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c to meet sponsored Project Exp.
9.	Development of 3D High Performance Knitted Sports Textiles with Thermo-Physiological comfort and Impact Protective Properties.	22,27,667	22,27,667	26,87,812	26,87,812
10.	"Socio-economic development of SC/ST by providing training technology and market to convert local resources to industrial products (DST).	29,72,632	29,72,632	14,23,287	14,23,287
11.	Development of Indigenous State-of-the-art Instruments to test convective, radiant and conductive properties of protective textiles	17,51,234	17,51,234	-	-
12.	Study of quality, performance and constructional parameters of Headliners for Automobiles. (BIS)	9,47,523	9,47,523	-	-
13.	Study of safety and performance requirements of fire hoods for firefighter. (BIS)	7,50,265	7,50,265	-	-
14.	Development and commercialization of Industrial hemp pultrusion cord & composites (under GREAT scheme)	2,00,000	2,00,000	-	-
	<b>Total:</b>	<b>2,66,83,225</b>	<b>2,66,83,225</b>	<b>1,87,69,752</b>	<b>1,87,69,752</b>

Annexure - F

**POWERLOOM SERVICE CENTRES EXPENDITURE AND GRANT-IN-AID  
TO MEET THE EXPENDITURE**

*(Amount in Rs.)*

S.No	Place of the Centre	2024-2025		2023-2024	
		Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c & income to meet PLSC exps.	Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c to meet PLSC exps.
1.	TANDA	14,68,877	12,95,635	14,33,310	13,03,400
2.	MEERUT	24,19,553	19,71,546	23,10,214	17,33,000
3.	KANPUR	19,70,146	19,61,677	19,88,341	19,59,055
4.	LUDHIANA	16,49,457	15,45,700	18,10,423	15,58,300
5.	GORAKHPUR	16,10,524	13,45,900	13,92,324	12,80,549
6.	PANIPAT	22,04,250	17,12,000	20,41,172	17,96,000
7.	BHILWARA	22,78,735	17,18,000	23,45,897	17,12,983
8.	VARANASI	21,49,653	21,25,176	20,45,583	19,00,938
9.	Chief Minister Handloom & Power Loom Training	12,21,900	12,21,900	3,18,600	3,18,600
<b>TOTAL :</b>		<b>1,69,73,095</b>	<b>1,48,97,534*</b>	<b>1,56,85,864</b>	<b>1,35,62,825*</b>

\*Includes Rs.14,75,634/- in respect of PLSC Income.

## Annexure – G

### Significant Accounting Policies and Notes to the Accounts

#### A. BASIS OF ACCOUNTING

The Financial Statements are prepared on Historical cost convention and on Mercantile Accounting system.

#### B. FIXED ASSET

Depreciated Fixed Assets are stated at cost, which include expenditure incurred on acquisition of assets concerned such as freight, duties, Taxes and incidental expenses up to the installation of assets. Assets acquired in Power Loom Service Centre's, CAD, Sponsored Projects and Testing Labs are stated at Revalued amount.

#### C. DEPRECIATION

During the year the Society has charged depreciation on fixed assets on Written down Value method as per the rates & manner prescribed in the Income Tax Act 1961.

#### D. INVESTMENT

Investments are stated at cost.

#### E. FOREIGN CURRENCY TRANSACTION

Transactions in Foreign Currency are accounted at the exchange rate prevailing on the date of the transaction.

#### F. REVENUE RECOGNITION

(a) All incomes are accounted for on accrual basis except for membership subscription which has taken on receipt basis.

(b) Government grants are accounted on the basis of sanction letter from the government department.

### NOTES ON ACCOUNTS:

1. Figures in Balance Sheet are rounded off to the nearest rupee.

Previous year figures have been regrouped or rearranged wherever considered necessary to make them comparable with those of Current year.

### AUDITOR'S REMUNERATION

	CURRENT YEAR	PREVIOUS YEAR
Audit Fees	Rs. 1,00,000	Rs. 1,00,000



## **NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION**

(Linked to Ministry of Textiles, Government of India)

Sector-23, Raj Nagar, Ghaziabad-201017 (INDIA)

Phone : 0120-2807390-95, 2783586/592/095, Fax : 0120-2783596

E-mail : [mail@nitratextile.org](mailto:mail@nitratextile.org) Website : [www.nitratextile.org](http://www.nitratextile.org)