

NITRA NEWS

...with industry always



Issue: July-Sep. 2025

Insight

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Editorial Structure

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Partha Basu

FROM DIRECTOR GENERAL'S DESK



Dear Patrons,

This quarter has witnessed many activities in NITRA. The members of the Council of Administration, NITRA met in the 49th AGM held at NITRA to form NITRA's council for the year 2025-26. They unanimously consented to continue with the existing leadership team comprising of Sh. Vidit Jain, Jt. MD, Pasupati Spg. & Wvg. Mills Ltd. as the Chairman, Sh. Sandeep Hora, C.E.O. of Aeronav Industrial Safety Appliances as Dy. Chairman and Sh. Nitin Nolkha, Jt. MD, Nitin Spinners Ltd. as Vice Chairman of NITRA. The Chairman and his team thanked all for extending support to them for successfully managing the affairs of NITRA over the last one year.

NITRA's 20th Convocation Ceremony took place on the same day. Sh. Ashok Malhotra, Mission Director, NTTM was the Chief Guest. Others present were eminent industrialists and NITRA Council members Sh. Sandeep Hora and Sh. Nitin Nolkha along with the invitees. A total of 121 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. In this period NITRA Director General was honored with the Innovation Award by ITTA, Mumbai, for pioneering the development of a Specialized Firefighter Suit under the NTTM Project—a major step forward in advancing safety and protection technologies.

Hon'ble Union Minister of Textiles, Sh. Giriraj Singh, and Hon'ble Minister of State for External Affairs & Textiles, Sh. Pabitra Margherita, Govt. of India visited NITRA pavilion during Viksit Bharat: National Summit in Patna Conclave. Both ministers appreciated NITRA's R&D efforts in taking the textile industry to greater heights.

During this period the eminent technocrats such as Mr. Rajeev Tyagi, Dy. CEO, UBKVIB and Mr. Manoj Jhavar, Global Technical service Manager – Water & Protection, DuPont Specialty Products (India) Pvt. Ltd., visited the Fire Manikin Testing Facility at NITRA. Besides, Sh. Moloy Chandan Chakraborty, IDAS, Jute Commissioner, National Jute Board, MoT, GoI also visited NITRA to see the cultivation of milk weed crop.

NITRA and its academic wing NTC signed five MoU with BEE, NSI, Vardhman Textile, Ganga Acrowools, and Ingenium Traders during this period for extending technical consultancy, technology transfer, and joint project commencement. NITRA also launched two new testing facilities such as Fire Manikin Testing and Food & Beverage Testing. A new instrument Contact Heat Transmission Tester is also developed during this period.

I hope you all enjoy reading NITRA News Bulletin and expecting valuable feedback.

Regards,

Dr. M.S. Parmar
Director General

Northern India Textile Research Association

(Linked to Ministry of Textiles, Government of India)
Sector – 23, Raj Nagar, Ghaziabad – 201 017 (India)



R&D SPECTRUM

Presently, NITRA is working on 08 Government sponsored projects:

ON-GOING PROJECTS

Sponsoring Agency: DST, Govt. of India

- Socio-economic development of SC/ST by providing training, technology and market to convert local resources to industrial products
- To Develop Protective Work Wears for Sewage and Sanitary Workers

Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India

- Development of Specialized Firefighting Suit
- Development of flame retardant Nylon 66 yarn/fibre indigenously
- Cellulose-based indigenous high Clo value and low-density surface modified natural fibre for developing thermal layers of extreme cold climate clothing
- Development of Indigenous State-of-the-art Instruments for Protective Textiles
- Design and development of various products from Milkweed (*Calotropis gigantea/procera*) floss/fibre
- Development of Multi-layered Fire-fighters suit for Protection against Thermal Hazards and Pressurized Steam

PROPOSED PROJECT:

Sponsoring Agency: NTTM, Ministry of Textiles, Govt. of India

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

RESEARCH PAPER PUBLISHED/PRESENTED

S.No.	Title	Author/s	Publication / Place	Publication Date
1	Enhancing the power quality of a grid-connected rooftop solar PV system under varying environmental conditions: Strategic optimization of influencing parameters using machine learning and desirability-driven approach	Ramesh Chandra Yadaw	Sustainable Energy Technologies and Assessments	2025
2	Presentation on Development of eco-friendly textile products using Milkweed fibre—a sustainable raw material with exciting potential	M.S. Parmar	M/s. Welspun Living Ltd. Anjar, Gujarat	20/06/25
3	Presentation on Application of Milkweed in Textiles – NITRA Initiative	M.S. Parmar	In a webinar organized by North India Section of The Textile Institute (NISTI)	19/07/25
4	Reliability Analysis of a series-parallel system under different failures Using Gumbel-Hougaard copula repair	Praveen Kumar Poonia & Meghna Tyagi	Life Cycle Reliability and Safety Engineering, Springer Publications (Scopus)	25/07/35

5	Milkweed floss: Farm to Foreign	Preeti Kaur Sachdeva	National Conclave on Weaving India Together: Natural Fibres, Innovation and Livelihoods from the Northeast and Beyond, organized by College of Community Science, Central Agricultural University (Imphal) and ICAR New Delhi.	07/10/25
6	Skilling, Compliance Training & Workforce Development for a Sustainable Technical Textile Ecosystems	M.S. Parmar	Conference on Technical Textiles jointly organized by NTTM Ministry of Textiles, Government of India and PHDCCI @ Ludhiana	25/07/25
7	Biodegradable, Flushable Sanitary Napkin Using Natural Fibre: A Revolutionary Product Development	Ranu Khade, Nidhi Sisodia & Arindam Basu	38th National Convention of Textile Engineers in National Seminar on "Emerging Challenges of Sustainable Technical Textiles"	05/10/25
8	From Waste to Weave: Unconventional Natural Fibers in Sustainable Textiles	Nidhi Sisodia, M. S. Parmar & A. K. Pandey	-do-	05/10/25
9	Valorization of Grapevine Waste for Sustainable Technical Textiles: Comparative Characterization of Bark and Core Fibers	Princy Rana, Sabina Sethi & Nidhi Sisodia	-do-	05/10/25
10	Investigating nitrogen sources for bacterial cellulose based vegan leather	D Sharma, Nidhi Sisodia & Chanchal	ShodhKosh: Journal of Visual and Performing Arts	July-December 2025
11	Performance of parthenium: polyester blended yarns	Sonal, Salini Junjeja & Nidhi Sisodia	International Journal of Current Research Vol. 17 (Issue, 01,)	September 2025
12	New Dimensions of Milkweed Floss/ Fiber: Innovations in Khadi	M.S. Parmar, Kushagra Prakash, Lalit Giri Goswami, Preeti Kaur Sachdeva	UP International Trade Show 2025 organised by UP Handloom board at the India Expo Centre & Mart, Greater Noida	September 25-29, 2025

PATENT FILED

- Optimum transfer trajectories with minimum time ballistic, Indian patent application no.: 202511081997 A, dt.:09/09/2025

CONSULTANCY CORNER

Inspection: Blanket (1 unit), Light Weight Ground Sheet (2 unit), Shirting Angola (2 unit), Woolen Jersey (6 unit), Coat Combat (2 unit), Sleeping Bag (2 unit), Nylon Cape (1 unit), Uniform Cloth Digital Prints (1 unit), Terry Towel (4 units), Poly Carbonate Sheet (1 unit), Rucksack Bag (30 ltr.) (1 unit), Rain Poncho (1 unit) and Underpant Woolen (1 unit)

Consultancy:

1. Setting UP 1200 KLD ZLD Model in Bhilwara, Rajasthan (1 unit)
2. Up gradation of 800 KLD ETP in Bhilwara, Rajasthan (1 unit)
3. Pollution Prevention and Effective Waste Management of the units in Panipat Textile Cluster (1 unit)
4. Technical & financial appraisal of CFC, Kushi Nagar under KVIB (1unit)
5. Man power study (1unit)
6. Energy audit (4 units)
7. Process audit (1 unit)
8. Extraction of pineapple fibres and setting up the plant from pine apple leaves – M/s. Red River Tantu –Tripura
9. Development of flushable sanitary Napkeen – M/s. Xleep Pvt Ltd., Delhi
10. Extraction of Hemp fibres and setting up the plant. – M/s. Chlohemp, Uttarakhand

HRD FOCUS

S. No.	Nature of Program and Date	Venue	Division	No. of trainees
1.	Training Program on Sustainable Textile Manufacturing (7th July 2025 to 1st August 2025)	NITRA, Ghaziabad	Garment Centre	11
2.	Training Program on Quality Assurance in Garment Manufacturing (14-07-2025)	Paramount Products Pvt. Ltd., Noida	Garment Centre	22
3.	Training Program on Quality Assurance in Garment Manufacturing (16-07-2025)	Radiant Expoavision Noida	Garment Centre	52
4.	Training Programme on Quality Assurance in Garment Manufacturing (17-07-2025)	Rainbow Fabart Hosiery Complex, Phase-II, Noida	Garment Centre	25
5.	Training Program on Quality Assurance in Garment Manufacturing (19-07-2025)	Pooja International Noida	Garment Centre	26
6.	Training Program on Quality Assurance in Garment Manufacturing (28-07-2025)	Fancy Fashion Noida	Garment Centre	17
7.	Training Program on Quality Assurance in Garment Manufacturing (29-07-2025)	Pee Empro Exports Pvt. Ltd., Faridabad	Garment Centre	37
8.	Training Program on Quality Assurance in Garment Manufacturing (02-08-2025)	Radnik Exports Noida	Garment Centre	25

9.	Training Program on Quality Assurance in Garment Manufacturing (04-08-2025)	Panorama Exports Faridabad	Garment Centre	22
10.	Carbon footprints (22-08-25)	Pee Empro Exports Pvt. Ltd., Faridabad	Engg. Division	30

TESTING ZONE

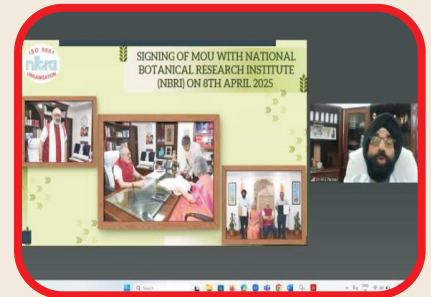
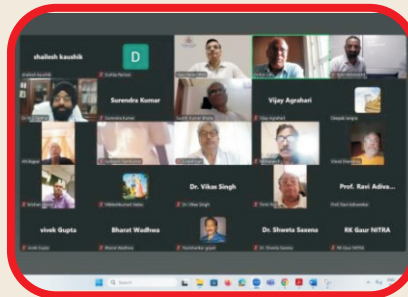
During the period July-September 2025, total 3020 samples were tested in all the labs as given in Table.

S. No.	Lab Name	No. of samples tested
1	Physical Quality Evaluation Lab	1019
2	Chemical Quality Evaluation Lab including Heat & Flame lab	1218
3	Microbiology lab	193
4	Polymer & Technical Textiles Lab	498
5	Eco Lab & Environment Lab	92

GLIMPSES

Excellent Presentation by Dr. M.S. Parmar, DG NITRA in a NISTI Webinar

Dr. M.S. Parmar, DG NITRA, deliberated on “Application of Milkweed in Textiles – NITRA Initiative” in a webinar organized by North India Section of The Textile Institute (NISTI) on July 19, 2025. 100+ participants (from India, USA & other countries) joined the program. Program has recieved immense response and it was considered as one of the best webinars ever organised by NISTI.



Dr. M.S. Parmar, DG NITRA, one of the Eminent Speakers, in a Conference on Technical Textiles jointly organised by NTTM Ministry of Textiles, Government of India and PHDCCI on July 25, 2025 @ Ludhiana

Dr. Parmar deliberated in the session on “Skilling, Compliance Training & Workforce Development for a Sustainable Technical Textile Ecosystems” during his special address.

Hon'ble Union Minister of Textiles, Sh. Giriraj Singh, and Hon'ble Minister of State for External Affairs & Textiles, Sh. Pabitra Margherita, Govt. of India visit NITRA exhibition stall during the Viksit Bharat: National Summit held on 22nd–23rd August in Patna

Both ministers appreciated NITRA's R&D efforts in taking the textile industry to greater heights. Had intensive discussions over products developed by NITRA and on-going innovations. Whole team of NITRA is indebted to both stalwarts for their wisdom and continuous support.



Sh. Moley Chandan Chakraborty, IDAS, Jute Commissioner, National Jute Board, Ministry of Textiles, Government of India visits NITRA on August 20, 2025 to see the cultivation of Milkweed crop and progress of the work in product development at NITRA

Mr. Rajeev Tyagi, Dy. Chief Executive Officer, UBKVIB visits NITRA on September 8, 2025. Has fruitful discussions with Dr. M.S. Parmar, DG NITRA on Khadi, Milkweed fibre, CFC Kushinagar, Training programs etc. to promote khadi & village industries in Uttar Pradesh



Mr. Manoj Jhaver, Global Technical Service Manager Water & Protection, DuPont Specialty Products (India) Pvt. Ltd., visits the Fire Manikin Testing Facility @ NITRA on Sept 10, 2025

He interacted with Dr. M.S. Parmar, DG NITRA, held insightful discussions over Fire Manikin Advanced Testing Facility and NITRA's cutting-edge research & innovations.



ITTA Recognizes NITRA with its Innovation Award



On 19th September 2025, NITRA Director General, Dr. M. S. Parmar, was honored with the Innovation Award by ITTA, Mumbai, for pioneering the development of a Specialized Firefighter Suit under the NTTM Project—a major step forward in advancing safety and protection technologies. Dr. Parmar's innovation marks a new milestone in the technical textiles sector and exemplifies NITRA's commitment to research-driven safetysolutions and protecting the protectors.

49th Annual General Meeting at NITRA

The members of Council of Administration NITRA had met in the 49h AGM held on 27th Sept.'25 at NITRA, Ghaziabad. It was followed by the 154th Meeting of NITRA council of Administration. Members unanimously approved the existing NITRA Leadership team Sh. Vidit Jain, Joint MD, Pasupati Spinning & Weaving Mills Ltd., Chairman NITRA; Sh. Sandeep Hora, Partner & CEO, Aeronav Industrial Safety Appliances, Dy. Chairman NITRA and Sh. Nitin Nolkha, Joint MD Nitin Spinners Ltd., Vice Chairman NITRA to continue for the year 2025-26 also. The members expressed strong confidence in the team's ability to effectively guide and steer NITRA, reaffirming its position as one of the premier and most respected R&D institutes in India and globally. Dr. M.S. Parmar, Director General, NITRA, extended his sincere appreciation to the leadership and members for their continued support and guidance. He acknowledged that NITRA's growth and achievements have been significantly driven by the inspiration and vision of this leadership team.



20th Convocation Ceremony held at NITRA on 27th September 2025

NITRA's 20th Convocation Ceremony was held on Saturday, 27th Sept.'25 at NITRA, Ghaziabad. Sh. Ashok Kumar Malhotra, Mission Director, National Technical Textile Mission, MoT, Gol was the Chief Guest. NITRA Council members Sh. Sandeep Hora and Sh. Nitin Nolkha were also present on the occasion. 110 students were awarded certificates and medals in the convocation.



Dr. M. S. Parmar, Director General NITRA, in his **welcome address**, mentioned that NITRA since 2002 is offering many industry-oriented programs on regular and distance learning modes, covering areas such as garment manufacturing, designing, merchandising, and quality assurance. Till now NITRA has trained and placed over 3,500 students in renowned garment/textiles exports companies.



Sh. Sandeep Hora, Dy. Chairman NITRA, motivated the pass outs by showing them how they should adopt to new beginning in their lives and what are the qualities required to be successful in life. Sh. Nitin Nolkha *Vice Chairman NITRA*, appreciated that many leading textile and garment export houses, testing labs and buying agencies are regularly recruiting NITRA students.

Sh. Ashok Malhotra, Chief Guest, in his Convocation Address stated that India's growth in textile industry will continue in the coming years in spite of high US tariffs as the Govt. is already looking for alternative markets and taking other appropriate measures. He inspired the pass outs by quoting examples from his personal life and mentioned that success and failure comes in everyone's life. One should be ready to face both. He appreciated NITRA programs for its infrastructure, faculty and industry focus.



NITRA Develops Contact Heat Transmission Tester (As Per ISO 12127-1:2015 / IS 17462-1: 2020)

It can determine Contact Heat Transmission through Protective Clothing (including hand protectors) or Constituent Materials intended to protect against High Contact Temperatures.

NITRA has Installed a New Instrument called Thermal Analyser

The instrument is installed and now ready to test thermal property of materials as per ASTM C 518, ASTM C 1784, ISO 8301, JISA 1412, EN 12667, and EN 12664.



Proud Moments for NITRA Technical Campus!

Our B.Tech (Textile Technology) student Mr. Sahil, Gold Medallist and Topper of the Textile & Carpet Engineering Group (Batch 2021–2025), has been honoured by the Hon'ble Governor of Uttar Pradesh in the 23rd Convocation of AKTU held on 09th Sep. 2025. This prestigious recognition is a testament to the hard work, dedication, and excellence of the students and faculty members of NITRA Technical Campus.

MEMORANDUM OF UNDERSTANDING

1. Dr. M.S. Parmar, Director General, NITRA, and Prof. (Dr.) Seema Paroha, Director, National Sugar Institute (NSI), signed an MoU with the objective of collaborating on the development of new-age sustainable fibres for textile applications on September 09, 2025.



2. MoU with M/s. Ganga Acrowools Limited, Ludhiana for the commercial usage of Milkweed fibre in woolen products for export purpose on July 14, 2025



3. MoU with M/s. Vardhman Textiles Limited on July 25, 2025. Collaborated for the application of Milkweed fibre (CLOCell) in Textiles. The agreement was signed by Dr. M.S. Parmar, DG NITRA and Mr. Neeraj Jain, JMD, Vardhman Textiles Limited.



4. MoU (Tripartite) with Farmers and the Cotton Corporation of India Ltd. on July 2, 2025. The objective of the project is to cultivate milkweed with improved yield and quality by the farmers under supervision of Cultivator (NITRA) and CCI.

5. In the presence of Hon'ble Sh. Manohar Lal Khattar, Union Minister of Power and Housing & Urban Affairs NITRA Signed a MOU with Beureau of Energy Efficiency (BEE) at Panipat on July 15, 2025.



6. Memorandum of Understanding (MOU) and Non-Disclosure Agreement with M/s. Bamboosa Creations on September 17, 2025 for working jointly on mutually agreed textile projects on bamboo fibres and their extraction/ regeneration/ processing and product development activities.

7. Memorandum of Understanding (MOU) and Non-Disclosure Agreement with M/s. Bharat Hemp on September 17, 2025 for working jointly on mutually agreed textile projects on hemp fibres.



Fire Manikin Testing Facility at NITRA for Protective Clothing



Meets the requirement of Standards:

- IS 17881 (Part 1) & IS 17881 (Part 2)
- ISO 13506-1 & ISO 13506-2
- ASTM F1930
- NFPA 2112

Key Features

- Full -scale fire manikin for advanced flame and heat exposure testing
- High-precision thermal response and heat flux measurements
- Customizable, standards-compliant protocols
- Comprehensive technical reporting for R&D and certification



Why Choose NITRA?

- Accredited as per - ISO/IEC 17025
- Cost effective
- Deep expertise in protective clothing and technical textiles
- Center of Excellence in Protec
- Fast turnaround and expert guidance



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NITRA Offers New Testing Services on

Food & Beverage

As per IS 5887-PART 1&2 and IS 5405-PART 2



Testing of Spices/Herbs & Condiments

SPICES

Microbiological analysis of Non-Alcoholic Beverages, including juices, soft drinks, and bottled water and Alcoholic Beverages

ALCOHOLIC & NON- ALCOHOLIC BEVERAGES



Contact us: mail@nitratextile.org



Footwear Testing Facility at NITRA

NITRA is going to launch full fledged footwear testing facility for safety shoes.

This initiative aims to ensure compliance with safety regulations and enhance protection as per laid down standards.

Congrats NITRA Invention Team!!