**TESTING FACILITIES AT NITRA FOR WATER AND INDUSTRIAL EFFLUENTS**

- **Appearance, Color, Odor, Turbidity,**
- **pH Value, Conductivity, Total Solids (TS),**
- **Total Dissolved Solid (TDS),**
- **Total Suspended Solids (TSS),**
- **with/without TS/TDS, Fixed Solids (FS),**
- **Volatile Solids (VS),**
- **Settleable Solids**

- **Heavy metals: Cd, Co, Cu, Cr, Pb, Hg, Ni, Zn**

- **Other Metals: Na, K, Mn, Fe, MPN Coliform per 100 ml**

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**Northern India Textile Research Association**

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

Sector-23, Raj Nagar, Ghaziabad-201 002 (U.P.)

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E-mail : mail@nitratextile.org  Website : www.nitratextile.org

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**NITRA NEWS**

...with industry always

**Issue:** Jan – Mar. 2023

**Insight**

Dear Patrons,

The last quarter of this fiscal (Apr.22 – Mar.23) has come to an end now. While we look forward to the next one, we sincerely hope that all our esteemed patrons have had excellent performance in terms of business operations and achieving business goals during the fiscal gone by. Friends, this first quarter of 2023, have been very eventful for NITRA particularly for holding the annual Research Advisory Committee (RAC) Meeting. Sh. Sandeep Hora, MD Aeronav Safety Appliances chaired the meet in presence of Ms. Roop Rashi, IA&AS, Textile Commissioner, MoT, GoI who also attended the meet along with other experts. Total 12 R&D projects were presented by NITRA scientists. RAC members and special invitees from academia & industry had very intensive interactions and came out with many suggestions and ideas. Chairman RAC and Textile Commissioner also gave fruitful inputs for the projects.

During this period NITRA also participated in many forums such as Global Investors Summit in Lucknow wherein discussion on investments in the 'Textile sector' in the state of UP took place. On the 3rd Global Textile Conclave (GTC) organized by CINTI in Jaipur, NITRA spoke on TRAs commendable work in research & developments in diversified fields and approach of having a vision of 5 years ahead. On another occasion, NITRA deliberated, as one of the panelists, on “Opportunities in Bamboo sector: exports, MSME and branding” in the National Workshop “Bamboo Sector Development and Bamboo Exhibition” organized by The National Bamboo Mission, Dept. of Agriculture and Farmers Welfare at PHD House, New Delhi. Besides the above events, a seminar on “Khadi and Handlooms for Sustainable Fashion” was organized by NISTI at IIT Delhi. NITRA was a knowledge partner in this program. A large number of delegates attended the program where NITRA spoke on the importance of quality control and usages of environment friendly wet processing that needs to be strengthened for making them sustainable both environmentally and economically.

In its continuous pursuit for excellence, NITRA, during this period signed a Memorandum of Understanding (MOU) with Govt. Polytechnic, Hisar (Haryana) for advising on implementation of quality education; better exposure to students; conducting industrial training for students and jointly organizing Seminars, Exhibitions, and Symbiosis etc. NITRA’s academic wing NITRA TECHNICAL CAMPUS also hosted two important events, Parichay - the Freshers Party-23 and Sports Meet - 23 during this period.

NITRA is happy to inform that it has received the first instalments of the five R&D projects, which were approved by Ministry of Textiles under NTTM scheme and one R&D project, approved by DST. It will commence all these projects from the month of April 2023. We wish participation from the industry for these projects.

While I conclude, I wish you Enjoy reading NITRA News.

Regards,

Dr. Arindam Basu

Director General

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**FROM DIRECTOR GENERAL’S DESK**

Northern India Textile Research Association

(Linked to Ministry of Textiles, Government of India)

Sector – 23, Raj Nagar, Ghaziabad – 201 002 (India)
R&D SPECTRUM

Presently, NITRA is working on nine Government sponsored projects.

Government Sponsored Projects - On-going:

- Development of molten metal splash resistant unique jute blend work-wear for steel industry workers
- Development of Jute composite for automotive acoustic insulation and other uses

Recently Sanctioned Projects:

- Development of Ceramic and UHMWPE Textile based Hybrid Polymer Composite Armor
- Developing thermal layers of extreme cold weather clothing for developing thermal layers of extreme cold weather clothing (Sponsored by NTTM, GoI)
- Comfort and Impact Protective Properties (Sponsored by NTTM, GoI)
- Development of 3D High Performance Knitted Sports Textiles with Thermo and Banana Fibre (Sponsored by NTTM, GoI)
- Development of Crop Cover, mulch, soil protection fabrics and other products (Sponsored by NTTM, GoI)
- Development of flame retardant Nylon 66 yarn/fibre indigenously (Sponsored by NTTM, GoI)
- Development of Specialized Firefighting Suit (Sponsored by NTTM, GoI)
- Development of Jute composite for automotive acoustic insulation and other uses
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Additional Secretary Department of Defence Production, Ministry of Defence, GoI. NITRA management congratulates both of them for making the organization proud.

Parichaya 2023 - the annual Fresher’s Party of NITRA Technical Campus

Parichaya 2023, the annual Fresher’s Party of NITRA Technical Campus (NTC) was held on 20th January, 2023 at NITRA, Ghaziabad. The fresher’s meet opened with the 1st year students presenting performing arts such as solo & group song, solo & group dance, skits, poetry recitation, dramatics, poster presentations and a series of fun games. The program also included a colorful ‘Ramp Walk’ by the aspirants of Mr. and Ms. Fresher title amongst the students of 1st year. Dr. Arindam Basu, Director General, NITRA and Director, NTC, graced the occasion and distributed prizes along with other faculty members during the occasion.

NITRA Technical Campus Organizes Annual Sports Meet 2023

NITRA Technical Campus (NTC) organized 3-day intra-college annual Sports Meet 2023 during 7-9 February, 2023 at NTC Campus, Ghaziabad. Six disciplines of sports activities such as, cricket, football, table tennis, volleyball, badminton, and chess were included in this year’s sports meet. About 350 students from various branches have participated with great enthusiasm in this meet. Dr. Arindam Basu, Director General, NITRA & Director, NTC, Dr. M. S. Parmar, Director, NITRA along with other faculty members distributed the prizes in the closing ceremony.

Placement Activities (B. Tech) at NITRA Technical Campus

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Recruiting Company</th>
<th>Branch</th>
<th>Student’s Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Arham Spinning Mills, Bhiwadi</td>
<td>TT</td>
<td>Gopal Shah, Tarun Kumar and Vaish Khan</td>
</tr>
<tr>
<td>2.</td>
<td>Symbiosis Technologies</td>
<td>CSE</td>
<td>Nadinuddin</td>
</tr>
<tr>
<td>3.</td>
<td>DracERP Solutions</td>
<td>CSE</td>
<td>Shivam Tiwari and Rishabh Dev Singh</td>
</tr>
</tbody>
</table>

CONSULTANCY CORNER

- Inspection: Full body Protector (1unit), Water bottle (1unit), Riot Control Helmet (1unit), Cloth Disruptive (1unit), Rain Poncho (1unit), Jersey Woolen (3 units), Coat Combat (2 units), T Shirt (6 units), Shitting Angola Cloth (2 units), Blanket (5 units), Terry Towel (3 units), Nyco Camouflage Cloth (1unit), Cap Balclava (2units), Cotton Tape Newar (1unit), and Backpack (1unit).
- Fabric Defect analysis (6 units)
- Poor Phenolic yellowing rating in acrylic yarn (1unit)
- Setting up ZLD plant (1unit)
- Pollution prevention and efficient water use in Panipat (1unit)
- Breaking and loop skipping problem in sewing thread used in terry towel (1unit)
- Consultancy on UP Govt. Textile Policy (1unit)

HRD FOCUS

Training Program/Workshop/Seminar Conducted by NITRA staff

- Mr. R. K. Gaur and Mr. Lalit Giri Goswami conducted Training of Trainers program (23 participants) for M/s. Sangam India Limited, Sareri, Bhilwara during 21.03.23 to 24.03.23.

TESTING ZONE

During the period, total 1782 samples were tested in all the labs as per following table:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Lab Name</th>
<th>No. of samples tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Physical Quality Evaluation Lab</td>
<td>665</td>
</tr>
<tr>
<td>2</td>
<td>Chemical Quality Evaluation Lab</td>
<td>937</td>
</tr>
<tr>
<td>3</td>
<td>Heat &amp; Flame/Microbiology Lab</td>
<td>123</td>
</tr>
<tr>
<td>4</td>
<td>Polymer &amp; Technical Textiles Lab</td>
<td>39</td>
</tr>
<tr>
<td>5</td>
<td>Eco Lab</td>
<td>18</td>
</tr>
</tbody>
</table>

Total no. of Fabric Defect Analysis under taken during the period: 6

GLIMPSES

Research Advisory Committee (RAC) Meeting held at NITRA

Research Advisory Committee (RAC) Meeting was held at NITRA on January 14, 2023. It was chaired by Shri Sandeep Hora, Chairman RAC, Vice Chairman NITRA Council of Administration & MD Aeronav Safety Appliances, New Delhi. Ms. Roop
Rashi, IA&AS, Textile Commissioner, Ministry of Textiles, Govt. of India also attended the program. Dr. Arindam Basu, DG NITRA welcomed the Chairman RAC, Textile Commissioner and experts. Total 12 R&D projects were presented by NITRA scientists. As many as 16 RAC members & special invitees from Academia & industry had very intensive interactions and poured in good amount of suggestions and ideas. Chairman RAC and Textile Commissioner also gave fruitful inputs for the projects.

Global Investors Summit in Lucknow

Dr Arindam Basu, Director General, while representing NITRA in the Global Investors Summit in Lucknow on Feb 11, 2023 opined that Uttar Pradesh is a land of infinite textile opportunities. He stressed on adequate investments in the ‘Technical Textile’ sector in UP in order to make the state as one of the prosperous states in the country.

DG NITRA addresses at 3rd Global Textile Conclave (GTC) organized by CITI

Dr. Arindam Basu, Director General NITRA addressed at the 3rd Global Textile Conclave (GTC) organized by CITI held at Hotel Marriot, Jaipur during March 15-17, 2023. His views on TRAs commendable work in research & developments in diversified fields and approach of having a VISION OF 5 YEARS AHEAD were very much appreciated.

NITRA Partners NISTI in Seminar on Khadi and Handlooms for Sustainable Fashion

A seminar on “Khadi and Handlooms for Sustainable Fashion” was organized by NISTI on 4th Feb. 23 at IIT Delhi. NITRA was a Knowledge Partner in this program. DG NITRA addressed a large number of delegates. He mentioned about the quality control and usages of environment friendly wet processing that need to be strengthened for making them sustainable both environmentally and economically.

NITRA Scientists Awarded Ph.D at the 41st Convocation of DEI, Agra

It is a matter of great pride for NITRA that Dr. Neha Kapil and Dr. Shweta Saxena, both Principal Scientific Officer in NITRA, was awarded Doctorate degree at the 41st Annual Convocation of Dayalbagh Educational Institute (Deemed University) Dayalbagh, Agra on 18th Feb 2023. The degree was awarded by the chief guest Shri Sanjay Jaju, IAS, Former...