Issue: October - December 2019

FROM DIRECTOR GENERAL’S DESK

Dear Patrons,

To begin with at this last quarter edition of NITRA News Bulletin 2019, I want to wish you a happy new year 2020 which is already underway. At the same time I also hope that all of you had spent the year gone by pretty purposefully and achieved your goals. Friends, as usual this quarter has also been buzzed with activities both for NITRA and its academic wing NITRA Technical Campus. The prime events for this quarter comprise of the Research Advisory Committee (RAC) meet under the chairmanship of Sh. Raj Kumar Jain, Vice Chairman, NITRA Council of Administration and MD, Zonac Knitting Machines (P) Ltd. NITRA, since its inception, has always believed in working in order to support the industry. As a result of this, RAC meet is held at regular intervals so as to determine NITRA’s direction for conducting R&D that would directly benefit the industry. The members of RAC met during this quarter, assessed, discussed and reviewed the existing R&D projects, and set a guideline for its future projects.

During this period, NITRA also organized a 10 Day Training of Trainers (ToT) program in November at its campus Ghaziabad. A good number of new and existing trainers from various Textile Units/Training Providers have attended the program. New trainers were imparted two days training in the Domain and six days Platform skills. All trainers were assessed in last two days for domain and platform skills by third party assessment agency. Amongst the notable guests who visited NITRA during the reported period were Sh. Saugata Biswas IAS, Divisional Commissioner, Leh (Ladakh), Sh. R.K. Srivastava, Executive Director-NCDPD and Sh. Ranbir Singh, Director HMCM.

NITRA’s academic wing NITRA Technical Campus (NTC), on the other hand, also had a glorious time in this quarter. In continuation with the legacy of last three years, two students of NTC have clinched gold and silver medal whilst six of the students secured positions among the top 10 AKTU rankers in Textile Group for the year 2015-19 B. Tech exams. It simply shows NITRA’s continuous supremacy in the field of textile education. To top it up, we are also very proud to inform that top textile houses such as Trident Group, Alok Industries, Nahar Industrial Enterprises and many more recruited a good number of pass out from NTC.

To conclude at the end of this year, I once more solicit your invaluable suggestions in order to make the future issues more informative and user-friendly. So, please feel free to mail your opinion so that we can improve the publication.

Enjoy reading NITRA News Bulletin.

Regards,

Dr. Arindam Basu
Director General

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 four Government sponsored, three Industry sponsored and one In-house projects.

**Government Sponsored Projects - On-going:**
- New Approaches to Reduce Water Consumption in Textile Wet Processing
- Development of Value Added Products from different fibres produced in Himalayan Region
- Development of Air Cleaner Home Textiles to Reduce Indoor Air Pollution
- Setting up of Common Effluent Treatment Plant (CETP) -150 KLD at Ajrakhapur, Bhuj

**Industry Sponsored Projects - On-going:**
- Development of Improved version of body protector used for riots control
- Development of coat combat disruptive
- Development of technical textile products in the field of feminine hygiene

**In-house Project - On-going:**
- Development of an Android-based Mobile Application for Garment Industry for Instant Information Access and Quick Decision Making

**Recently Sanctioned Project:**
- Setting up of Common Facility Centre (CFC) for washing & finishing of Chikankari material at Asian Village Khadi Marketing Association, Lucknow

**Proposed Projects – Submitted to Government Agencies for Financial Support**
- Development of Stab, Impact and Puncture Testing Instrument for Body Protector (submitted to DST, Govt. of India)
- To initiate a process for making rural women economically self-reliance by engaging them to convert agriculture bio mass waste in to useful products (submitted to DST, Govt. of India)
- To develop protective work-wear for sewage and sanitary workers (submitted to DST, Govt. of India)
- Development of protective work wear for fire safety of women working in fire hazard areas such as kitchen, match sticks manufacturing, brick firing & fire work industry (submitted to DST, Govt. of India)

**RESEARCH PAPERS PUBLISHED/PRESENTED**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Title</th>
<th>Author(s)</th>
<th>Publication/Place</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Development of Thermal Resistance Textile materials for protective work wear</td>
<td>M.S. Parmar, Ruvinder Kumari and Swami Sharan</td>
<td>International Conference on Emerging Trends In Traditional &amp; Technical Textiles, Dr B.R. Ambedkar, NIT Jalandhar</td>
<td>November 1-3, 2019</td>
</tr>
<tr>
<td>2</td>
<td>Development of Lining and Thermal Layer for Skier wear suit</td>
<td>Nidhi Sisodia, Shweta Chauhan and M.S. Parmar</td>
<td>-do-</td>
<td>November 1-3, 2019</td>
</tr>
<tr>
<td>3</td>
<td>Services offered by COE (PROTECH), NITRA</td>
<td>Arindam Basu and M.S. Parmar</td>
<td>Textile Value Chain, p 22 - 23</td>
<td>November 2019</td>
</tr>
</tbody>
</table>
**CONSULTANCY CORNER**

- Third party inspection of textile manufacturing units for Woolen Jersey (6 units), T-shirt (1 unit), Gabardine (7 units), Angola shirting (5 units), Coat combat (4 units), jersey (1 unit), BD serge (1 unit), Terry towel (1 unit), Sleeping bag (3 units), Half sleeve round neck vest (1 unit), Cotton tape newar (8 units), Rain cape (2 units), Vest thermal (1 unit), Twill weave wool fabric serge (3 units), Twill weave wool fabric 50/50 (1 unit), Vest cotton (3 units), Under pant thermal (4 units), Cap comforter (1 unit) and Serge 50/50 (1 unit)

- Development/Improvement of systems and processes

  The department is offering consultancy in the area – “Development/Improvement of systems and processes” to one of the units at Gurgaon. The consultancy covers review of existing work practices and systems/formats in following departments and suggesting best practices to improve productivity, quality, layouts and reduce rework, rejections etc.

  - Fabric Stores
  - Trims Stores
  - Cutting
  - Sewing & IE
  - Finishing & Packing
  - Sampling and Merchandising

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**HRD FOCUS**

**NITRA organizes 10 Day Training of Trainers(TOT) Program**

10 Day Training of Trainers (ToT) program was conducted by NITRA from November 13-22, 2019 at its campus Ghaziabad. Total 31 trainers from various Textile Units/Training Providers have attended the program. This includes 17 new trainers and 14 existing trainers. New trainers were imparted two days training in the Domain and six days Platform skills.
All trainers were assessed in last two days for domain and platform skills by third party assessment agency. Trainers were from Powerloom, Handloom and Processing sub-sectors. Program was inaugurated by Dr. Arindam Basu, DG NITRA. It was very much appreciated by the participants and they have been very interactive during the sessions.

**TESTING ZONE**

During the period, total 1969 samples were tested in all the labs. Brief details are given in the Table. 14 cases of fabric defect analysis were also done.

### TECHNICAL TEXTILES

NITRA has been designated as Centre of Excellence for Protective Textiles and Automotive Textiles, under TMTT, by the Ministry of Textiles, Government of India.

**GARMENT WORLD**

**Job-Oriented Short Term programs:**

Since 2002, NITRA is conducting job-oriented professional training programs for the textile and apparel sector. During the year 2019-20, following programs are offered:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Program Title</th>
<th>Min Qualification</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fashion Marketing and Merchandising (FMM)</td>
<td>Graduation/Diploma</td>
<td>12 months</td>
</tr>
<tr>
<td>2</td>
<td>Apparel Production and Industrial Engg (APIE)</td>
<td>12th Pass with PCM /Diploma</td>
<td>12 months</td>
</tr>
<tr>
<td>3</td>
<td>Apparel Design and Quality Control (ADQC)</td>
<td>12th Pass</td>
<td>12 months</td>
</tr>
</tbody>
</table>

The above programs are approved by Apparel and Made-ups Home Furnishing Sector Skill Council (AMHSSC).

**Distance Learning Programs for Working Professionals:**

Since 2003, NITRA is conducting Distance Learning Programs for the working executives of textile and apparel sector. Programs offered in the year 2019-20 are given in Table.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Program</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Textile Technology &amp; Management (TTM-DLP)</td>
<td>12 months</td>
</tr>
<tr>
<td>2</td>
<td>Apparel Manufacturing and Merchandising (AMM-DLP)</td>
<td>12 months</td>
</tr>
<tr>
<td>3</td>
<td>Quality Evaluation of Textiles &amp; Garments (QETG-DLP)</td>
<td>12 months</td>
</tr>
</tbody>
</table>

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

**GLIMPSES**

**NITRA Organizes Research Advisory Committee Meeting**

Research Advisory Committee (RAC) Meeting was held at NITRA on December 14, 2019. The meeting was chaired by Sh. Raj Kumar Jain, Chairman RAC & MD, Zonac Knitting Machines Pvt. Ltd. Dr. Arindam Basu, Director General welcomed the RAC Chairman, members and special invitees in the meeting and expressed thankfulness for their kind presence. He explained that NITRA has completed two projects and is currently working on eight on-going projects. NITRA has also proposed three projects to Government agencies. NITRA Scientists made presentations on these projects. Total 20 RAC Members & special invitees from industries and academia had an intensive interaction and gave fruitful suggestions on the research activities carried out by NITRA. Sh. Abhijit Pal, Officiating Director, NITRA offered the vote of thanks.
Sh. Saugata Biswas IAS, Divisional Commissioner, Leh (Ladakh)

Sh. Saugata Biswas IAS, Divisional Commissioner, Leh (Ladakh) along with Sh. R.K. Srivastava, Executive Director-NCDPD and Sh. Ranbir Singh, Director HMCM visited NITRA on December 13, 2019.

Dr. Arindam Basu, DG NITRA warmly welcomed them and Mr. A. Pal (Officiating Director) made presentation on NITRA activities, latest developments done by NITRA and also discussed in detail about the Pashmina project for Leh & Ladakh.

Team also visited the various facilities of NITRA particularly the pilot plants of spinning, weaving and textiles laboratories. They had extensive discussions over the developments that NITRA has done in the field of natural fibres.

Nahar Industrial Enterprises Ltd. recruit Textile Graduates at NITRA Technical Campus, Ghaziabad

Mr. SK Tyagi, Business Head (Fabrics); Mr. Rajesh Singh, Unit Head (Spinning); Mr. Dharmesh Gera, Assistant Vice President & Head (HR) (Fabrics) and Mr. HN Singhal, President Corp HR of Nahar Industrial Enterprises Ltd. visited NITRA Technical Campus, Ghaziabad on December 5, 2019 for the recruitment of textile graduates. Dr. Arindam Basu, Director General, NITRA presented mementos to the dignitaries of Nahar Industrial Enterprises Ltd. and thanked them for recruiting 14 B. Tech. students.

Alok Industries Ltd. recruit Textile Graduates at NITRA Technical Campus, Ghaziabad

Shri Rajendra Maid (Vice President) & Shri Bashir Ansari from Alok Industries Ltd. visited NITRA Technical Campus, Ghaziabad on 7th & 8th November 2019 for the recruitment of textile graduates. Dr. Arindam Basu, Director General, NITRA presented mementos to both dignitaries and thanked them for recruiting B. Tech students. Three Textile Technology (TT) and Four Textile Chemistry (TC) students have been selected by them.

Incredible 6 students secure position among top 10 university rankers!
Repeating the success of last three years, the band of NITRA Technical Campus (NTC) students have brought laurels yet again! It is a matter of great delight that as many as six students of NITRA Technical Campus have secured positions among the top 10 AKTU rankers in Textile Group for the year 2015-19.
NTC students Aditi Kushwaha of Textile Technology branch (ranked 1st with 84.42%) (Branch: Textile Technology) and Sonia Chaudhary of Textile Chemistry branch (ranked 2nd with 83.36%) have clinched the gold and silver medals respectively while the rest four students featured amongst the top ten. This outstanding performance shows the excellent quality of teaching at NTC as the college has achieved this great feat for four consecutive years since its inception. The college management and its faculty members congratulate these students for making the institute proud.

**NITRA Officers Achievements**

BEE has certified Mr. Vikas Sharma as Accredited Energy Auditor- Textile Sector on 29th October 2019. Mr. Sourabh Jain has qualified for Certified Energy Manager.

**Training Program/Workshop Seminars attended by staff**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the program</th>
<th>Venue</th>
<th>Dates</th>
<th>Name of staff attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>National Workshop on Energy Conservation Guidelines for MSMEs organized by BEE and TERI</td>
<td>Magnolia Hall, India Habitat Centre, Lodhi Road, New Delhi</td>
<td>December 10, 2019</td>
<td>Mr. Vikas Sharma, Sourabh Jain &amp; R.C. Yadaw (As delegates)</td>
</tr>
<tr>
<td>2.</td>
<td>3rd edition of National Public Procurement Conclave 2019 organized by CII and GeM</td>
<td>Habitat Centre, New Delhi</td>
<td>December 5-6, 2019</td>
<td>Mr Vineet Tyagi (As delegate)</td>
</tr>
<tr>
<td>3.</td>
<td>Two day Capacity Building Workshop for establishing Trainer-Assessor Academies in India organized by National Skill Development Corporation and facilitated by Singapore Polytechnic International with assistance from Temasek Foundation, Singapore</td>
<td>India Habitat Centre, New Delhi</td>
<td>December 4-5, 2019</td>
<td>Mr. R.K. Gaur (As delegate)</td>
</tr>
<tr>
<td>4.</td>
<td>Techtextil 2019</td>
<td>NESCO Exhibition Centre Goregaon, Mumbai</td>
<td>Nov 20-22 , 2019</td>
<td>Mr. Vineet Tyagi &amp; Mohit Pandey (as Exhibitors)</td>
</tr>
<tr>
<td>5.</td>
<td>Workshop on Customer Relationship Management</td>
<td>Conference Hall, CII Office, Gurugram</td>
<td>November 19, 2019</td>
<td>Sh. Sanjeev Shukla, Ms. Neha Kapil &amp; Sh. Maheshwar Singh (As delegates)</td>
</tr>
<tr>
<td>6.</td>
<td>New Product Launch &amp; JaNets by JUKI INDIA</td>
<td>Tivoli Royal Court, Okhla Indl. Area Phase – 1, New Delhi</td>
<td>Nov 15, 2019</td>
<td>Mr. Vivek Agarwal, Ms.Shweta Saxena, Ms.Geeta Sharma &amp; Mr. Jaswant Yadav (As delegates)</td>
</tr>
<tr>
<td>7.</td>
<td>4 Days National Training Program on “Bio Gas Technology: Demonstration and its applications”</td>
<td>Sardar Swaran Singh National Institute of Bio Energy, Kapurthala</td>
<td>Nov 5-6, 2019</td>
<td>Mr. Vikas Sharma (As delegate)</td>
</tr>
<tr>
<td>8.</td>
<td>International Conference on Advances in Textile Materials and Processes [ATMP-2019]</td>
<td>UPTTI, Kanpur</td>
<td>December 2-3, 2019</td>
<td>Dr. M.S. Parmar (as a Paper Presenter &amp; Chairman of the session) and Ms. Nidhi Sisodia (Paper presenter)</td>
</tr>
</tbody>
</table>
NITRA membership
Following units have taken NITRA membership:
- M/s G.D. International, Kanpur
- M/s Integrated Defence Products Pvt. Ltd., Greater Noida
- M/s Adient Arvind Automotive Fabrics India Pvt. Ltd., Gandhi Nagar, Gujarat
- M/s Nexgen Fabrics Private Limited., Ghaziabad

New Arrivals of Books at Library
Following 5 titles (books) added in the Library during October – December 2019:
- NFPA-701 Standard methods of Fire Tests for Flame....
- Shape Memory Polymers and Textiles by Jinlian HU
- Structure and Mechanics of Textile Fibre Assemblies Edited by P Schwartz
- Textile Advances in the Automotive Industry, Edited by R Shishoo

Placement Activities at NITRA Technical Campus

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Recruiting Company</th>
<th>B. Tech Branch</th>
<th>Student's Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Trident Group</td>
<td>Textile Technology</td>
<td>Ankush Kumar</td>
</tr>
<tr>
<td>2</td>
<td>Trident Group</td>
<td>Textile Chemistry</td>
<td>Shubhangi Singh</td>
</tr>
<tr>
<td>3</td>
<td>Alok Industries</td>
<td>Textile Technology</td>
<td>Premansh Sen, Anuj Kumar and Poornima Singh</td>
</tr>
<tr>
<td>4</td>
<td>Alok Industries</td>
<td>Textile Chemistry</td>
<td>Krishna Jaiswal, Sneha Joshi, Jayant Sachan, Balkrishna Soni &amp; Sohit Sharma</td>
</tr>
<tr>
<td>5</td>
<td>uCertify</td>
<td>CSE</td>
<td>Nishtha Singh</td>
</tr>
<tr>
<td>6</td>
<td>NIIT</td>
<td>CSE</td>
<td>Amit Singh Rawat</td>
</tr>
<tr>
<td>7</td>
<td>NTT Data</td>
<td>CSE</td>
<td>Sanket Tiwari</td>
</tr>
<tr>
<td>8</td>
<td>Vardhaman Textiles Ltd.</td>
<td>TC</td>
<td>Devendra Pratap and Himanshi</td>
</tr>
<tr>
<td>9</td>
<td>Unthinkable</td>
<td>CSE</td>
<td>Utkarsh Srivastava and Yathish Mishra</td>
</tr>
<tr>
<td>10</td>
<td>AppSquadz Technologies Pvt. Ltd.</td>
<td>CSE</td>
<td>Lucky Tyagi</td>
</tr>
<tr>
<td>11</td>
<td>Vardhaman Textiles Ltd.</td>
<td>Textile Technology</td>
<td>Mohammad Osama</td>
</tr>
<tr>
<td>12</td>
<td>Winsome Yarns Ltd.</td>
<td>Textile Technology</td>
<td>Avinash Kumar and Rituraj Sahu</td>
</tr>
<tr>
<td>13</td>
<td>Nahar Industrial Enterprises Ltd.</td>
<td>Textile Technology</td>
<td>Aman Gupta, Sumit Kumar Singh, Mahak Dev Arora, Onkar Prashun, Varun Rana, Muskan Omar, Aaferen Fatma, Chandan Neog &amp; Dharmesh Duvey</td>
</tr>
<tr>
<td>14</td>
<td>Nahar Industrial Enterprises Ltd.</td>
<td>Textile Chemistry</td>
<td>Shraddha Yadav, Shreya Pathak, Sonal Yadav, Vishal Kumar Gupta &amp; Shivangi Mishra</td>
</tr>
</tbody>
</table>

NITRA Developments got commercialized
- Study material for “Fabric Defect Analysis” was transferred to M/s. Textile Sector Skill Council, New Delhi
- Technology to produce “Seamless low cost jute carry bags” was transferred to M/s. G. D. Industries, Kolkata
- Technology of Work wear for Cement Porters transferred to M/s. Arvind Ltd., Ahmedabad
- Technology of development of “Multi Layered Flame & Thermal Resistance Fabric for Fire Fighter Clothing” has been transferred to two of the leading textile manufacturing units i.e. Arvind Ltd. and Aeronav Industrial Safety Appliances
- Technology on “Development of stab and impact resistant material for anti riots body protector” has been transferred M/s. Applied Systems Mumbai
NITRA's Express Testing Services

Get sample test reports, wherever possible, within 48 hours of submission of samples - Just pay 1.5 times of normal testing charges

NITRA laboratories work 24X7 to serve its clients better. We make all efforts to provide you quick services. In this regard, NITRA has started express testing services where any client can get test reports, wherever possible, with in 48 hours of receipt of samples - just by paying 1.5 times of the normal testing charges.

NITRA's Fabric Smoothness Tester

License to manufacture NITRA’s Smoothness Tester for Fabric and Sheeting Materials has been given to following company

Contact details for query:
K.P. SHENOY
Tel.: +91-22-2778 0880 /81 Telefax : +91-22-2778 0882,
Phone : 9867349370
Email: kpshenoy@multifloinstruments.co.in
Web: www.multifloinstruments.co.in

NITRA Electronic Drape Meter

License to manufacture NITRA Electronic Drape Meter has been given to following company

Contact details for query:
Shri J Dinesh, CEO
Dinu Technology, 34/35 Sathy Cross Road
1st Street, Gandhipuram, Coimbatore 641012 (Tamil Nadu)
Mail ID: info@dinutech.com, dinesh@dinutech.com, Ph: 0422 2491494