



# ANNUAL REPORT 2018-2019



**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION**

Sector- 23, Raj Nagar, Ghaziabad- 201 002 (India)



# **ANNUAL REPORT**

## **2018-19**

**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION**

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

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## MESSAGE FROM THE CHAIRMAN COUNCIL OF ADMINISTRATION



Dear Patron,

It is a matter of great rejoice for me that as the Chairman of NITRA, whenever I settle down to pen down this annual column, it gives me a sense of pride and satisfaction for being associated with NITRA, the leading textile research association in the country. 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 more diversified manner year after year. The best part of 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 esteemed patrons, valued clientele and efficient workforce for this.

Friends, though the Indian textiles & clothing industry had experienced a moderate run of fortune during the last fiscal but it has done relatively better during the fiscal 2018-19. The positive trend in the entire textile value chain has been the result of pragmatic approach shown by the union finance and commerce ministries over the past few years. The Centre's support to the sector includes disbursement of Rs. 1,300 crore for the Samarth Scheme, Rs. 6,000 crore for apparel & made-ups package along with various state incentives, resolution of goods and services tax (GST)-related issues and increase in import duty on various textile and apparel commodities. This timely policy support and intervention served as an important step when the industry was under severe stress, especially after the implementation of GST.

While talking about NITRA, I feel happy to inform that during the reported period NITRA scientists have carried out 9 R&D projects out of which 2 are completed and 7 in the pipeline. In addition to this, 3 need-based projects are also proposed to Govt. of India for which the sanction is awaited. As many as 34 research papers are also published/ presented by NITRA scientists during the reported period. The other activities of NITRA i.e. technical consultancy, material quality evaluation, and manpower training have also been quite satisfactory during the last one year. It is also delightful to note that the CoE for Protective Textiles & Automotive Textiles at NITRA is doing excellently in developing niche products using innovative technologies. The highly sophisticated Focus Incubation Center (FIC) at our premises is also fully operational now for providing technical support to budding entrepreneurs interested in making innovative technical I textiles products. Also, during the reported period NITRA successfully hosted 58<sup>th</sup> Joint Technological Conference wherein Gen. (Retd.) V. K. Singh, Hon'ble MoS, Ministry of External Affairs made his august presence as the chief guest.

NITRA's academic wing NITRA Technical Campus, established in 2011-12, has also grown up steadily during the reported period and has successfully been conducting two 4-year B.Tech. programs on Textile Technology and Computer Science & Engineering. Both the programs are affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow and approved by AICTE. The first three batches of students have passed out with excellent results and are placed in various renowned textiles and IT companies around the length and breadth of the country.

Before I put my pen aside, I profusely thank the Ministry of Textiles, Govt. U.P. State Govt., members of the industries, various para-military agencies and all others whoever sought and availed NITRA's technical expertise and infrastructural facilities for supporting us. I sincerely hope for a prolonged relationship with all our stakeholders in the coming days.

**S.K. KAPOOR**

## FROM THE DIRECTOR GENERAL'S DESK



During the financial year 2018-19, NITRA has done commendable work to support the Indian textiles & garment industry. Following are the highlights:

### Activities at a glance (2018-19)

<b>R&amp;D</b>		<b>Clientele</b>	
Projects completed	02	Clients served	1156
Projects ongoing	08	New clients inducted	170
Research papers	34		
<b>Consultancy services</b>		<b>PLSCs</b>	
Technical consultancies	80	Technical assistance/consultancies	56
Technical opinions & defect analysis	34	Design developed	31
International assignments	02	Liaison visits/Survey carried out (No. of units covered)	4025
<b>Testing services</b>		Sample tested	2602
Quality evaluation in NITRA labs	5069	Persons trained	1281
<b>Training services</b>		Exhibitions/seminars organized	82
Manpower training programs	18	Clients served	525
Personnel trained by NITRA	577	New clients added	65

### 1. Chemical & Quality Evaluation Division and Polymer & Technical Textile Divisions

#### Completed Projects:

- Development of protective work-wear for cement porters
- Development of multi-layered flame & thermal resistant fabric for fire-fighting clothing

#### On-going Projects:

- New approaches to reduce water consumption in textile wet processing
- Development of value added products from different fibres in Himalayan region (along with Mechanical Processing Division - Wvg)
- Development of Air cleaner home textiles to reduce indoor air pollution

#### Proposed Projects:

- Development of Improved Body Protector for Defence Forces (submitted to Ministry of Textiles, Govt. of India)

- Development of Stab, Impact and Puncture Testing Instrument for Body Protector (submitted to Deptt. of Science & Technology, Govt. of India)
- Development of chemical and pesticides protective clothing for industrial workers and farmers (submitted to Ministry of Textiles, Govt. of India)

Publications: 26 (05 with other Divisions)

Technical Consultancy: 06 (04 with other Divisions)

Training Programs: 06 (05 with other Divisions)

## 2. Mechanical Processing (Spg.) and Human Resource Development Division

Ongoing Project:

- Investigation on process variables on functional properties of cotton/corn blended fabric

Technical Consultancy: 06

International Assignments: 01

Training Programs: 04 (with other divisions)

## 3. Software Development Centre

Publications: 04

Training Programs: 03

## 4. Engineering Division

Publications: 03

Technical Consultancy: 16

International Assignments: 01

Training Programs: 01 (with other division)

## 5. Environmental Engineering Division

Ongoing Project:

- Setting up of Common Effluent Treatment Plant (CETP)- 150 KLD at Ajrakhpur, Bhuj (Sponsored by Ministry of Textiles, Govt. of India)

Proposed Project:

- Setting up of Common Facility Centre (CFC) for washing & finishing of Chikankari material at Asian Village Khadi Marketing Association, Lucknow (Sponsored by Ministry of Textiles, Govt. of India)

Technical Consultancy: 03

Training Programs: 01

## 6. Physics & Quality Evaluation Division

Publication: 01

Technical Consultancy: 50 (38 with other divisions)

Training Program: 01 (with other division)

## 7. Garment Centre

On going Project:

- Development of an Android-based Mobile Application for Garment Industry for Instant Information Access and Quick Decision Making

Publications: 05 (with other division)

Training Programs: 12 (04 with other division)

## 8. Publication Division

Technical Consultancy: 01 (with PLSC, Bhilwara)

Training Programs: 05 (with other division)

## 9. Mechanical Processing (Wvg.) Division

On going Project:

- Development of value added product from different fibres in Himalayan region (along with Chemical & Quality Evaluation Division).

Publications: 02 (with other division)

Technical Consultancy: 13 (with other division)

Training Programs: 04 (with other division)

## Quality Evaluation at NITRA Laboratories

Altogether 5,069 samples were tested at NITRA's NABL accredited laboratories during 2018-19. Following is the laboratory-wise break up for the same:

Physics Quality Evaluation Laboratory	-	2243 samples
Chemical Quality Evaluation Laboratory	}	- 1960 samples
Heat & Flame Testing Laboratory		
Polymer & Technical Textiles Laboratory	-	613 samples
Environment Laboratory & Eco Laboratory	-	253 samples

In addition to above, 33 fabric defect/damage analysis and technical opinions and 01 Garment defect analysis were 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, 34 research & technical papers are published/ presented in technical journals and forums. Total 8 Nos. of TABLETS (English & Hindi) and 3 Nos. of GaPS have been published during the year. (For details refer chapter Library and Information Services).

## Commercialization of NITRA Developments

- M/s. Multiflo Instruments Pvt. Ltd., Navi Mumbai, has been given license to manufacture NITRA's Fabric Smoothness Tester, developed under a project sponsored by Ministry of Textiles, Govt. of India.
- Technology of Work wear for Cement Porters transferred to M/s. Arvind Ltd., Ahmedabad.
- Two of the leading textile manufacturing units have shown interest for commercialization of NITRA's developed "Multi Layered Flame & Thermal Resistance Fabric for Fire Fighter Clothing" and have given letter of acceptance.



## Powerloom Service Centres

In order to strengthen the decentralized powerloom 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).

## Patent

Following patent was filed during the year:

1. Patent Application No. 201811047418 dt. 14.12.2018 for "Extraction of fibres from Kanghi or Atibala plant (Abutilon Indicum) using retting process"

## Important Events and Happenings during 2018-19\*

- Director General, NITRA chairs a session at 4th National Conclave on "Standards for Technical Textiles"
- Organizes 58<sup>th</sup> Joint Technological Conference at NITRA
- Release of books
- Organizes Tech-Tex 2019 – Conference on Protective Textiles
- Talk by Dr. Arindam Basu, DG NITRA on "Managing R&D Institutes" for Officers of Ethiopian Textile Industry Development Institute (ETIDI), Ethiopia
- Past NITRA Chairman Dr. Rikhab C. Jain Awarded Prestigious "Transforming India Award" by Ministry of Textiles, Government of India
- NITRA Organizes Research Advisory Committee Meeting
- Hon'ble Union Minister of State for Textiles, Sh. Ajay Tamta inaugurates Focus Incubation Centre (FIC)
- Shri S. K. Kapoor Elected as NITRA's New Chairman at the 42<sup>nd</sup> AGM
- NITRA's New Chairman Graces 15<sup>th</sup> Convocation

- NITRA helps CITI in conducting "InnoTex 2018" as Knowledge partner
- NITRA Joins Swachhata Hi Seva Movement – Organizes Exhibition and seminar on Recycling of textile waste and process waste
- NITRA observes 4<sup>th</sup> International Yoga Day
- NITRA Signs MoU with All India Artisans and Craft workers Welfare Association "AIACA"
- Textile Association (India) awards a prestigious scholarship to B.Tech Students
- NITRA Technical Campus Students Bring Laurel Again, Crack IITs and NIFT
- 5 Students from NITRA Technical Campus Amongst University's Top 10 Rankers!
- NITRA Technical Campus Organizes Techno-Science Quiz 2018
- Voluntary Blood Donation Camp Organized at NITRA Technical Campus

*\*For details please refer chapter Important Events and Happenings during 2018-19.*

**Dr. ARINDAM BASU**

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

NITRA always believes in satisfying its clients. That is why it has been able to retain most of its existing clients and at the same time include 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 2018-19.

Total clients served	: 1156
New Clients added	: 170

Approx. 20% of the clients at NITRA have availed services 5 times or more during the year.

- **Units availed services more than 100 times**

Unit	No. of Services
TUV-SUD South Asia Pvt. Ltd.	102

- **Units availed services more than 50 and less than or up to 100 times**

Unit	No. of Services
Alps Industries Limited	76
Arihant Spinning Mills, Malerkotla	75
TUV Rheinland India Pvt. Ltd.	71
Ordnance Equipment Factory, Kanpur	50

- **Units availed services more than 30 and less than or up to 50 times**

Unit	No. of Services
G.M. Trading Co., Haridwar	47
JCT Ltd., Phagwara	47
Ordnance Clothing Factory, Shahjahanpur	45
Shahi Exports Pvt. Ltd., Ghaziabad	37
Uniproducts India Limited, Rewari	36
KKK Mills, Ludhiana	34
Nahar Industry Enterprises, Ludhiana	34
Aeronav Industrial Safety Appliances, Noida	32
Asst. Dy. Commissioner of Customs, Noida	31
Pilkuwa Water Proofing Co. Pvt. Ltd., Ghaziabad	31
Protech Textiles & Trims Pvt. Ltd., Gurgaon	31

- **Total No. of services availed by clients at NITRA**

Testing	2482
Consultancy/ Training etc.	138
Total Services availed	2620

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

### **Government Grant**

Ministry of Textile (MoT), Govt. of India, deserves special thanks for helping NITRA by releasing timely grant for recurring expenditure. MoT released a grant of Rs.100 lacs towards recurring expenditure and Rs.222.686 lacs was released for R&D projects. NITRA have received grant of Rs.122 lacs from Office of the Textile Commissioner, Mumbai for continuing the activities of Power Loom Service Centres at Tanda, Meerut, Ludhiana, Kanpur, Gorakhpur, Panipat, Bhilwara & Varanasi.

NITRA received Rs.43.80 lacs grant for a project namely Setting up of Common Effluent Treatment Plant at Ajrakhpur, Bhuj, Gujarat from Handicraft Mega Cluster Mission, New Delhi.

### **Council of Administration**

The management of the Association is entrusted to the Governing Council. At the 42<sup>nd</sup> Annual General Meeting of the Association held on 18<sup>th</sup> September, 2018, 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 matters 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**

Research Advisory Committee meeting was held on Dec. 29, 2018 at NITRA, Ghaziabad. 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 2019, 135 textile and garment units have 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 2018-19, NITRA worked on ten projects. Out of which two have been successfully completed during the period whilst work is in progress for the eight projects.

Work done in the area of R&D during the year 2018-2019 is categorized as below:

### 1. GOVERNMENT SPONSORED PROJECTS

#### 1.1 Completed projects

(i) **Project title** : Development of protective work wear for cement porters  
(Sponsored by Ministry of Textiles, Govt. of India)

**Objectives** :

- To determine the magnitude of occupational health hazards among cement porters.
- To design and standardize dustproof and comfortable material such as gloves, socks and workwear for cement porters which can suit the climatic and working conditions.
- To evaluate effectiveness of the developed material in actual practice and standardization of test methods.

**Research Outcome** :

- Fabric samples were developed after intensive survey of cement user/ manufacturers.
- Fabric dust proof property analyzer has been fabricated and a patent has been filed.
- Cement work wear is developed and commercialized.
- Project completed and technology transferred to M/s. Arvind Ltd., Ahmedabad.

(ii) **Project title** : Development of multi layered flame & thermal resistant fabric for fire-fighter clothing (Sponsored by Ministry of Textiles, Govt. of India)

**Objectives** :

- To study existing fire fighter clothing/suit being used in India for their suitability related to safety and other physiochemical properties.
- To study fire fighter/clothing suit used in developed country for their safety and physiochemical properties.

- To identify gaps in the existing fire fighter suits being used in Indian fire fighters in comparison to fire fighter suits of developed country.
- Development of multilayered fabrics using various weaves structure, fibres composition and finishing applications in the manufacturing of fibre fighter suit.
- To evaluate multilayered fabrics for its performance for safety and other physiochemical properties as per standard.
- Development of fire fighter clothing/suit.

**Research Outcome :**

- Fire fighter suits were procured and their physiochemical properties were evaluated.
- Gaps were identified.
- Multilayered fabric for fire fighter suit is developed.
- Evaluation of developed material is carried out.
- Provisional patent has been filed for thermal layer.
- Fire fighter suit is fabricated
- Commercialization is under progress.
- Provisional patent has been filed for thermal layer.
- Project completed.

**1.2 Ongoing projects**

(i) **Project title** : New Approaches to Reduce Water Consumption in Textile Wet Processing (Sponsored by Ministry of Textiles, Govt. of India)

- Objectives** :
- To conduct preliminary trials to test suitability for various dyes, used for textile material.
  - Designing and fabrication of equipment for dyeing and standardization
  - Conducting dyeing trial on various types of textile materials
  - To compare dyed material out of new approach and conventional dyeing method in terms of quality and consumption of water.

- Progress of work** :
- Preliminary trials in various units are in progress.
  - Designing work of equipment for dyeing is in progress.
  - Various approaches of dyeing are being tested to conserve water.

(ii) **Project title** : Development of value added product from different Fibres in Himalayan Region (Sponsored by Ministry of Textiles, Govt. of India)

- Objectives** :
- To standardize a method for extraction of fibers from Pine Needles, Indian Flax, Nettle etc.

- Development of machines for extraction of fibres.
- To produce yarn with pure fibres and blends by optimizing mechanical parameters
- To develop various kinds of fabric utilizing those yarns
- To develop final value added products / home textile using these fabrics

**Progress of work :**

- Cultivation of flax fibres has been done.
- Extraction of fibre from Pine leaves has been standardized.
- Analysis of extracted fibres is completed.
- Machines have been procured.
- Training of NITRA employees completed.
- A patent has been filed regarding extraction of textile grade fibre from pine needles.

**(iii) Project title :** Development of air cleaner home textiles to reduce indoor air pollution (Sponsored by Ministry of Textiles, Govt. of India)

- Objectives :**
- Understanding nature of air pollutions in the indoor places using primary and secondary data and preparing research design
  - To evaluate various finishing chemicals/materials having characteristics to absorb/reduce air pollution
  - To select suitable fabrics and apply selected finishing chemicals using various techniques
  - To evaluate finished fabrics for various physico-chemical and performance properties
  - To take field trial of developed fabric in actual practice and modify, if required

**Progress of work :**

- Collecting details of air pollutants present in indoor air using primary and secondary data was done
- Identification of finishing chemicals required to reduce indoor pollution are going on through available sources
- Procurement of some finishing chemicals has been done
- Preliminary trial of application of finishing chemicals was done

**(iv) Project title :** Setting up of Common Effluent Treatment Plant (CETP) -150 KLD at Ajrakhpur, Bhuj (Sponsored by Ministry of Textiles, Govt. of India)

**Objectives :**

- Environment protection
- Ground water saving
- Energy conservation through reduction in ground water lifting
- To increase investment opportunity
- Creation of employment opportunities through overall business growth

**Scope of work:**

- Preparation of DPR with detailed BOQ.
- Preparation of drawings, tendering & tender evaluation
- Supply, construction, installation of all civil units as per the design and drawing.
- Supply & installation of electro-mechanical equipments as per the design and specification.
- Piping work and Hydraulic testing
- Setting-up of testing lab.
- Commissioning of CETP & performance analysis.
- Training of manpower
- 6 months hand holding

The foundation stone of the Common Effluent Treatment Plant (CETP) was laid on March 18, 2017 by Union Textile Minister Smt. Smriti Zubin Irani.

**Progress of work:**

- Detailed project report (DPR) has been prepared, contract awarded through tendering
- Prepared environmental impact assessment report
- Environmental clearance (EC) obtained
- Consent to Establish (CTE) has been granted by the Gujarat Pollution Control Board.
- Fabrication of MS tanks is partly completed.
- Civil work is underway.

## **2. IN-HOUSE PROJECTS**

### **2.1 Ongoing Projects:**

(i) **Project title :** Investigation on process variables on functional properties of cotton/corn blended fabric.

- Objectives :**
- To have critical study of the properties of corn fibres.
  - To produce yarn samples using corn fibres with different manufacturing process variables
  - To produce fabric using yarn samples produced from corn fibres using different parameters

- To have detailed investigation on the behavior of the process variables on the functional characteristics of the fabric
- To apply statistical tools and prepare mathematical models for predicting the functional behavior of corn blended material.

- Progress of work :**
- To process the corn / cotton blends rotor spinning system has been taken for the experiments.
  - Following variables have been chosen for the experiments during yarn manufacturing:
    - Rotor speed
    - Blend proportion
    - Rotor diameter
    - Opening roller speed
  - Yarn evenness, imperfection and tensile properties were measured and the impact was assessed with the change in the process variables.
  - Preparation of fabric with the produced yarn is under progress.
  - Assessment of fabric performance will be done in terms of functional characteristics such as flammability, abrasion resistance, air-permeability, antimicrobial properties etc.

**(ii) Project title :** Development of an Android-based Mobile Application for Garment Industry for Instant Information Access and Quick Decision Making

- Objectives :**
- Indian Garment Industry, especially exports, mainly comprises of small and medium size manufacturing units. Most of SME's do not have any MIS such as ERP due to reasons such as very high cost, customization and maintenance issues due to which the top management is unable to access correct information at the right time. Keeping these factors in mind, NITRA started working on development of a Mobile App that would address most of these issues. The project is started in Dec. 2018. Following modules shall be developed in the app.
    1. Daily Cutting Status
    2. Daily Sewing Status
    3. Daily Finishing Status
    4. Daily Packing Report
    5. Daily Production Report

**Progress of work :**

- Survey of garment units has completed.

### 3. INDUSTRY SPONSORED PROJECTS

#### 3.1 Ongoing Projects:

- (i) Development of Improved version of body protector used for riots control.
- (ii) Development of coat combat disruptive.

### 4. PROPOSED PROJECTS

#### 4.1 Proposed to Government:

(i) **Project title** : Development of Improved Body Protector for Defence Forces

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

**Objectives** :

- To study existing body protectors being used by Indian defence forces with respect to its suitability to protect them from various hazard like stabbing, impact and puncture.
- To evaluate the material to be used for various parts of body protector as per the requirement of para-military forces and Indian Climatic conditions
- To design and develop body protector for men and women paramilitary personnel.
- To evaluate body protector for its performance, for safety and other physiochemical properties as per existing defence standard
- To take field trial of developed body protector in actual practice and modify, if required.

(ii) **Project title** : Development of stab, impact and puncture testing instrument for body protector

**Sponsoring Agency** : Department of Science & Technology, Govt. of India

**Objectives** :

- To design the instrument as per the requirement
- To develop/fabricate the instrument as per design
- To take preliminary trials on the developed/fabricated apparatus to verify/optimize the suitability of design and if required to modify accordingly
- To analyse body protector samples for stab and impact resistant properties using newly developed/fabricated apparatus and verify the tested results with the same samples tested in the international laboratory.

- (iii) Project title** : Development of chemical and pesticides protective clothing for industrial workers and farmers
- Sponsoring Agency** : Ministry of Textiles, Govt. of India
- Objectives** :
- To determine the magnitude of occupational health hazards among chemical industry workers and farmers and to analyze the suitability of present personnel protective work wear.
  - To standardize chemicals & pesticides resistant, comfortable and durable work wear material keeping in mind Indian climatic and working conditions.
  - To design work wear for chemical industry workers and farmers.
  - To evaluate effectiveness of the developed protective work wear in actual practice and standardization.

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

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

- Objectives** :
- Replacement of traditional facilities by the state art of modern technology
  - Improvement in the quality of final product
  - Increase in investment opportunity
  - Design innovations
  - Provide adequate training and developing appropriate market linkages
  - Environment protection by facilitating them with the effluent treatment plant (ETP)

**Scope of work:**

- Review of Present status of cluster and their activities
- Assessment of existing facilities
- Preparation of DPR with needed facilities
- Preparation of Tender Documents with specification of Machines, equipments etc.
- Tendering & tender evaluation
- Installation/commissioning of machines
- Providing training to personnel on CFC functioning

## CONSULTANCY SERVICES

Technical consultancy is 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 third party inspection, feasibility study, system certification, infrastructure set up, valuations, manpower rationalization, energy audits, water audit, inspection and product/process & design development etc.

Major areas of consultancy services offered during the period 2018-19 are given below:

### Areas of Consultancies

- Machinery maintenance audit of spinning mills
- Production process audit
- Third party Verification of Khadi mark
- Third party inspection of blankets, T-shirts, Gabardine, Coat combat, Serge/BD Serge, Towel, Cotton Tape Mewar, Wool comforter, Jersey, Thermal vest, shorts, Coat parka and Angola shirtings
- Setting up of Common Effluent Treatment Plant (CETP)
- Energy audit
- Process house study
- Framing of specifications
- Diagnostic study of a textile printing mill
- Training centre validation and alignment of course content to the respective TSC QPs

\*Consultancy projects undertaken in the year 2018-19 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 six laboratories i.e. Physical lab, Chemical lab, Heat & Flame Testing lab, Polymer & Technical Textiles lab, Eco lab and Environment 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:** 2243

In addition to this, around 100 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, Brief, 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 Garments, Trousers, 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 and Geo-textiles, 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 etc.

#### **New Clients Added:**

Surya Marketing & Engineering Services, New Delhi; Shree G R Enterprises, Kolkata; Feera Terra India P. Ltd, Greater Noida; GTN Industries, Sangareddy, Telungana; Sonic Electricals, Ghaziabad; K M Poly Yarn P. Ltd., Delhi; Atul Textiles P. Ltd., Ghaziabad; Swastik Enterprises, New Delhi; Nuovatex Projects Co., New Delhi; Klassik Lamitex P. Ltd., Rewari; Ganges Apparel (India) P. Ltd., Kanpur; Sumaja Electro Infra P. Ltd., Kanpur; Garne Threads P. Ltd., Delhi; Sejwar Hoisery, Narela, New Delhi; Gramin Mahila

Utthan Samiti, Pilkhuwa; Ashwin Khadi Gramodyog Samiti, Modi Nagar; Manav Sewa Samiti, Khazakpur, Modi Nagar; N V International, New Delhi; Dreams Business Venture Pvt. Ltd., Thane; Safar Polyfibre P. Ltd., Rajkot; Fusewell A P Corporations, Delhi; Shiva Fibre P. Ltd., Gurugram; Vinayak Manufacturers P. Ltd., Kolkata; Manglam Ventures Ltd., Faridabad; Texperts India Pvt. Ltd., Gurugram; Syspa Aero System, Agra; Poonam Enterprises, Sonitpur, Assam; Harshit's, Jaipur; Universal Exim, Delhi; Mahalaxmi Spintex Pvt. Ltd., Solan; Sanskar Group, Ajmer; Diamond Varun Thread Mills P. Ltd., New Delhi; Rajshree Polyester P. Ltd., Hyderabad; Genus Apparels Limited, Faridabad; Vishal Mega Mart, Gurugram; Jindal Spinning Mills, Panipat; Sanjeev Textiles, Jaipur; Dainty Indian Needle Works Export House, Lucknow; Sky Textile Industries, Delhi; Hanuman Trading Co., Delhi; R T Creations, Surat; Kubera Universal (OPC) P. Ltd., Delhi; Sivanta Spintex P. Ltd., Udham Singh Nagar; Vaibhav Overseas, Panipat; Som Extracts Ltd., Sahibabad; Shree Bankey Bihari Enterprises, Noida; Sunny International, Delhi; Indian Armour Systems P. Ltd., Palwal; Suryadeep Industries, Kolkata; VPM Marketing (India), Delhi; Abhilasha Commercials P. Ltd., Noida; Laxmi Enterprises, Cuttack; UK Engg. Industries, Chandigarh; Om Distributors, Cuttack; Anjani Impex, New Delhi; Attal Plastics, Hyderabad; Shiv Naresh Sports P. Ltd., New Delhi; Kores India Ltd., Mahim; SAAV Inc., Sonapat; Earth Construction, Guna; Shree Patel Sewashram, Sharnli; Tanishka Fibre & Fabrics, Noida; GT Cargo Filling India Pvt. Ltd., Greater Noida; Sutra Handicrafts P. Ltd., New Delhi; Agartex Venture P. Ltd., Kanpur; Regal Sports, Jodhpur.

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

**No. of Commercial Samples Tested:** 1960

In addition to this, around 200 R&D samples were also tested.

### **Type of Samples received:**

**CQE :** Fibres, Yarns, Fabrics, Garments, Technical Textiles (Protech, Nonwoven, Automotive etc.), Dyes & Chemical Auxiliaries, 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, 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 & Crib test, Oxygen index, Smoke visibility test, Toxicity index, Fire resistance test, Methanamine table test, Hot metal nut test and Vertically oriented specimen, etc.

**New Clients Added in CQE and H&F Labs :**

Title Product Pvt. Ltd., Panipat; Maha Laxmi Trading Co., New Delhi; Sonic Electricals, Ghaziabad; Deepika Fabrics, Ghaziabad; Tulip International, Sonapat; Medi Trade, Delhi; Sumaja Electro Infra Pvt. Ltd., Kanpur; Hansvahini Auto Interior Pvt. Ltd., Gurgaon; Aktion Safety Solutions Pvt. Ltd., New Delhi; N.V. International, New Delhi; Maruti Suzuki Ltd., Gurgaon; Aska Equipments Ltd., Haridwar; Mateswari Industries, Ghaziabad; Ecotone Acoustics, Ahmedabad; J.S. Spintex Ltd., Punjab; Guru Gobind Singh Indraprasth, Delhi; Central Jail, Bareilly; Protech Textiles and Trims Pvt. Ltd., Gurgaon; Blanket Factory, Bhadohi; Glocale Sourcing India, Ghaziabad; Lindstorm, Mumbai; Thermadyne, Haryana; Unify Home Décor, Agra; Atlas Surgical, New Delhi; Prime Comfort, Noida; Clear Edge Filtration, Rajasthan; Geo Chem Laboratory, Gurgaon; Global Exim, Noida; Leal Exim Pvt. Ltd., Raipur; S.K. Enterprises, Delhi; Srishti Wool Combers, Punjab.

**POLYMER & TECHNICAL TEXTILES LABORATORY**

**No. of Commercial Samples Tested : 613**

**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, 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, etc.

**New Clients Added:**

TAL Secure Systems Pvt. Ltd., New Delhi; FAN Services Materials & Product Testing Lab, Maharashtra; Entermonde Polycoaters Ltd.; Raj Laghu Udyog, Delhi; E Pack Polymers Pvt. Ltd., Delhi; R.C. Industries, Delhi.

## ECO LABORATORY

Number of samples analyzed: 97

### 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 conducted

- 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

### New Clients Added

Derpa Industrial Polymers (P) Ltd., Ghaziabad; Keshav Exports, Panipat; Orient Fashion Exports (India) Pvt. Ltd., Noida; Ankita Enterprises & General Suppliers, Firozabad; R Homes, Ghaziabad; Shriram Institute for Industrial Research, Delhi; Welkin Apex, Varanasi; Kochar Woolen Mills (P) Ltd., Amritsar; Nagpal Woolen Textile Industries, Chandigarh; Barnala Auxi Colour LLP, Delhi; Sangam (India) Limited, Bhilwara.

## ENVIRONMENT LABORATORY

Number of samples analyzed: 156

### Type of samples received:

Raw Water, Treated Water, De-mineralized Water, Drinking Water, RO Feed, 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, Sizing Agents, Starch, Caustic, Auxiliary Chemicals, Silicon Softener, Sewing Thread, Research and Consultancy Samples etc.

### Type of analyses conducted:

- 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> 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.

**New Clients Added:**

Uttar Pradesh Textile Technology Institute (UPTTI), Kanpur; Universal Yarns & Tex Pvt. Ltd., Kanpur; Indu Chemicals, Ghaziabad; GarTex Impex, Delhi; Shiva Texyarn Limited, Coimbatore

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

- NITRA, Ghaziabad
- BTRA, Mumbai
- SASMIRA, Mumbai
- Green Economy Initiatives, Mohali

## TRAINING SERVICES

Keeping in view the growing need of trained manpower in textile and garment industry, NITRA offered various training programs throughout the year to meet the manpower requirement of textile and apparel industry. In addition to in-plant training programmes for working professionals, NITRA also offered job-oriented programs for young graduates and 12<sup>th</sup> pass aspiring to make their career in the textile and garment industry. These programs cater to meet the needs of different departments such as Production, Quality Control, Merchandising and Industrial Engg departments.

### Job-Oriented short term programs:

Since 2002, NITRA is conducting job-oriented professional training programs for the textile and apparel sector. During the year 2018-19, following full time programs were offered in various disciplines. A total of 102 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	45
2	Apparel Design and Quality Control (ADQC)	12 <sup>th</sup> Pass	12 months	33
3	Apparel Production and Industrial Engg. (APIE)	12 <sup>th</sup> Pass	12 months	24

### Internships and Placements:

NITRA has a very successful placement track record with more than 90% students getting jobs in garment/home textiles export/buying houses every year. For the batch of 2018-19, following garment/home textiles units have provided internships/recruited NITRA students of short term programs and skill development programs:

S. No.	Name of the Company	S. No.	Name of the Company
1	Chelsea Mills, Gurgaon	11	CGS Apparels, Noida
2	International Sourcing Inc.	12	C&R Textiles, Noida
3	MI Fabrics, Delhi	13	Sai Creations, Noida
4	Oriole Sourcing, Delhi	14	TCNS, Noida
5	Paramount Products, Noida	15	Parmeshwar Creations, Noida
6	Radiant Exports, Noida	16	Pee Empro Exports, Faridabad
7	Shapes and Size Garments, Noida	17	Arnit Creations, Noida
8	MTS Lab, Noida	18	Paragon Apparels
9	Speciality Merchandising Services, Noida	19	Raj Lakshmi Mills
10	Superhouse Group, Kanpur	20	Rikit Apparels

5 new recruiters were added during this period.

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

Since 2003, NITRA is conducting distance learning programs for the working executives of textile and apparel sector. During the year 2018-19, following distance learning programs were offered in various disciplines. Details of the programs offered are given below:

<b>S. No.</b>	<b>Name of the Program</b>	<b>Duration</b>
1	Textile Technology & Management (TTM-DLP)	12 months
2	Apparel Manufacturing and Merchandising (AMM-DLP)	12 months
3	Quality Evaluation of Textiles & Garments (QETG-DLP)	12 months

Contact sessions are conducted twice in a month on alternate Sundays in NITRA campus. A total of 76 working professionals were trained in above programs.

### **Summer Training Programs**

NITRA conducts one month summer training programs for the students of textile universities, colleges and polytechnics pursuing Post Graduation/Graduation/Diploma level courses. Every year, the programs are offered in the months of June/July. During the year 2018-19, one month summer training program in the area of Textile Manufacturing and Textile Testing was offered. A total of 29 students were trained in this program. Students from Government Polytechnic, Varanasi; Vidya Institute of Fashion Technology, Meerut; and KCMT, Bareilly attended the program.

### **Skill Development under Uttar Pradesh Skill Development Mission (UPSDM) Project**

The Department of Vocational Education and Skill Development, Govt. of Uttar Pradesh through Uttar Pradesh Skill Development Society has launched the Uttar Pradesh Skill Development Mission (UPSDM) to provide an opportunity to the youth for skill training based on their aptitude and skill level.

NITRA offered 3 programs in the year 2018-19 - (i) Sampling Tailor (ii) Quality Assessor (iii) Fashion Designer. Total of 103 trainees underwent training during this period.

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

NITRA Technical Campus was established during 2011-12. 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 fourth batch of B.Tech. students of NITRA Technical Campus has made a record. Till 31<sup>st</sup> March 2019, 58 students of Textile Technology, Textile Chemistry and Computer Science & Engg. branches have been placed in renowned companies like Orient Craft Ltd.; Mahavir Spinfab Pvt. Ltd.; SEL India Limited; Sara Textiles Ltd.; Winsome Yarns Ltd.; Vardhman Textiles Ltd.; Hohenstein India Pvt. Ltd. (A unit of Hohenstein Institute, Germany); Sahu Exports; CTA Apparels Private Limited; Khosla Profil Pvt Ltd.; Gimatex Industries Private Limited; Trident Group; Soft Solution Zone Pvt. Ltd.; eSec Forte Technologies; Satyam WebTech Solution; Step Ahead Foundation; Contemporary Connect; Elpida Nootbook; Moody's Analytics; IT Technovita; Logic Info Solutions; TATA Consultancy Services Limited (TCSL); Binary Consulting and Solutions LLP and Joulesto Watts Business Solutions Pvt. Ltd.

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

## LIBRARY AND INFORMATION SERVICES

NITRA library is equipped with printed and digital resources, with dedicated computers to provide on-line access to library resources.

### Resources

The library has developed a specialized Collection of Books, Journals, Reports, Thesis and Bound Volume Journals with specialized focus on textiles and allied subjects as follows:

Books	9273
Journals (For list of journals refer Annex-11&12)	33
Project reports	253
Thesis (MSc/PhD, B.Tech - CSE/TT)	143
Journals (Bound Volumes)	4954

### Library Services

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

- Library collection is computerized and the online catalogue provides bibliographic information about 10,000 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

## **NITRA Publications**

Following 11 Booklets were revised and printed during the year:

### **TABLEts Series:**

- S A 8000, 2<sup>nd</sup> Edition
- Oeko Tex Standards, 2<sup>nd</sup> Edition
- U V Protection Evaluation, 2<sup>nd</sup> Edition

### **GaPS Series:**

- Chemical Finishing, 3<sup>rd</sup> Edition
- Pigment Dyeing, 3<sup>rd</sup> Edition
- Utilities, 2<sup>nd</sup> Edition

### **TABLEts (वस्त्र एवं परिधान पुस्तिकायें) (Hindi)**

- सीम पकर
- स्टेन्स
- डेनिम वाशिंग
- निट्टेड वस्त्रों की सिलाई
- परिधान निर्माण में गुणवत्ता आश्वासन

## **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.

## **New Arrivals of Books at Library**

- Data Compression : The complete reference by David Solomn
- Automation in Garment Manufacturing, Ed. By Nayak & Padhye
- ASTM Standard on Colour and Appearance Measurement, 8<sup>th</sup> ed. By ASTM
- Technical Manual of the AATCC, 2018
- Textbooks of Engineering Mathematics-Sem-1, 11<sup>th</sup> ed., by N.P. Bali & Manish Goyal
- Introduction to Engineering Mathematics, Vol.1 by Dass & Verma
- Standard Methods for the Examination of Water and Waste Water, 23<sup>rd</sup> ed., by APHA
- Textbooks of Engineering Mathematics-Sem-III/IV, 3<sup>rd</sup>, 9<sup>th</sup> ed., by N.P. Bali & Manish Goyal
- Annual Book of ASTM Standards, Vol. 7.01
- Annual Book of ASTM Standards, Vol. 7.02
- A Text Book of Fibre Science & Technology by SP Mishra
- Fibre Structure by SP Mishra
- Weaving : Calculation, costing and projects by MK Talukdar, Anirban Guha

## IMPORTANT EVENTS AND HAPPENINGS DURING 2018-19

### **Director General, NITRA chairs a session at 4<sup>th</sup> National Conclave on "Standards for Technical Textiles"**

Dr. Arindam Basu, DG NITRA chaired a session "Standards for Security and Safety" at 4<sup>th</sup> National Conclave on Standards for Technical Textiles - Building standards for New India on February 21, 2019. The conclave was organized by Ministry of Textiles, Govt. of India in collaboration with BIS and FICCI, New Delhi.

### **Organizes 58<sup>th</sup> Joint Technological Conference at NITRA**

Joint Technological Conference is an annual feature of India's premier textile research associations ATIRA, BTRA, SITRA and NITRA. Major technical developments based on R&D by TRAs during the year, are presented and deliberated in the conference. The 58<sup>th</sup> edition of this event was hosted by NITRA at its campus in Ghaziabad on 15<sup>th</sup> Feb. 2019. It was inaugurated by Shri S.K Kapoor, Chairman, NITRA & MD, Surya Processors Limited. Sh. Rajkumar Jain Vice Chairman, NITRA; Dr. Anjan Mukhopadhyay, Director, BTRA; Shri Prakash Vasudevan, Director, SITRA; Shri M.N. Subramanian, Director, ATIRA and Dr. Arindam Basu, Director General, NITRA, also graced the occasion. Gen.(Retd.) V.K. Singh, Hon'ble MoS for External Affairs illuminated the 58<sup>th</sup> JTC as Chief Guest. He expressed happiness over the activities and achievements of the four TRAs. Gen. Singh was particularly satisfied with NITRA's R&D and product developments in the area of protective textiles and also suggested a few new areas where NITRA can work. An exhibition & poster presentation was organized along with JTC.

On the backdrop of 58<sup>th</sup> JTC at NITRA, Chief Guest Gen. (Retd.) V. K. Singh, Hon'ble MoS for External Affairs felicitated nine NITRA employees who have completed 25 years of dedicated service to NITRA. He also vowed to the dedication of those employees.

### **Release of books**

NITRA's technical publication is always acclaimed as useful and authentic reference to textile industry. Before the technical presentations of Tech-Text began on Feb.16, 2019, the official 58<sup>th</sup> JTC Book of Abstracts and four latest publications, Hindi version of Textile & Apparel Booklets, known as TABLET series in the industry, were released.

### **Organizes Tech-Text 2019 – Conference on Protective Textiles**

On 16<sup>th</sup> Feb. 2019 NITRA organized Tech-Text 2019, a conference on protective & automotive textiles. Present on the occasion were heads of ATIRA, BTRA and NITRA along with officials from several defense outfits and the industry. DG NITRA Dr. Arindam Basu spoke about technical textiles industry and detailed about NITRA's work through its CoE. Nine papers were presented in Tech-Text 2019 by organizations such as Indian Army, ITBP, CRPF, BIS, SMPP, RSWM, Marvel Vinyls and SITRA. Host NITRA also presented one paper.

### **Talk by Dr. Arindam Basu, DG NITRA on "Managing R&D Institutes" for Officers of Ethiopian Textile Industry Development Institute (ETIDI), Ethiopia**

Officers of Ethiopian Textile Industry Development Institute (ETIDI) attended a talk on "Managing R&D Institutes" which was given by Dr. Arindam Basu, Director General NITRA on Feb. 9, 2019 at NITRA, Ghaziabad. All officers of ETIDI, Ethiopia had a very intensive discussion over the challenges faced by the management in managing the R&D institute. They also visited the facilities of NITRA including laboratories.

### **Past NITRA Chairman Dr. Rikhab C. Jain Awarded Prestigious "Transforming India Award" by Ministry of Textiles, Government of India**

In a glittering ceremony held by Ministry of Textiles & CMAI on 06<sup>th</sup> February 2019 in Mumbai, Dr. Rikhab C. Jain, NITRA Past Chairman and Chairman of TT Group was awarded the prestigious "Transforming India Award" by Honourable Minister of Textiles, Smt. Smriti Zubin Irani.

### **NITRA Organizes Research Advisory Committee Meeting**

Research Advisory Committee (RAC) Meeting was held at NITRA on December 29, 2018. 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 three projects and is currently working on two on-going projects. NITRA has also proposed five projects to Government agencies. NITRA Scientists made presentations on these projects. Total 16 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.

### **Hon'ble Union Minister of State for Textiles, Sh. Ajay Tamta inaugurates Focus Incubation Centre (FIC)**

Keeping NITRA's excellent service for the textile industry in mind, MoT, GoI has designated NITRA as Centre of Excellence (CoE) for Protective Textiles & Automotive Textiles with providing infrastructure for developing expertise and technical capability for quality evaluation, product development and knowledge dissemination in the field of protective textiles. In this context a Focus Incubation Centre (FIC) at NITRA was inaugurated on 27<sup>th</sup> July, 2018 by the Hon'ble Union Minister of State for Textiles, Sh. Ajay Tamta in presence of Sh. Sanjay Kumar Jain, Chairman, NITRA and its Past Chairmen, Sh. R. K. Jain and Sh. R. L. Nolkha. Also present on the occasion were Dr. Arindam Basu, Director General, NITRA and many eminent industrialists. In his welcome address Chairman NITRA, Mr. Jain said that this was a move to promote innovation and startups in the textile arena by providing the right facilities and support to budding entrepreneurs of the industry.

Director General, NITRA, Dr. Arindam Basu, while addressing, proudly added that FIC will provide necessary facilities and technical guidance to encourage technical textile entrepreneurs for testing new ideas and technologies and thereby leap forward to more innovations in the products that they make. He is very confident that many new

developments will happen in FIC and invites entrepreneurs from across the country to join FIC to make their dreams a reality.

Hon'ble MoS, Textiles, Sh. Ajay Tamta, in his address mentioned about the deep impact of textile industry in Indian economy. He asserted about the various necessary steps taken and attractive scheme offered by the govt. to boost the Indian textile industry with special thrust for technical textiles. Past Chairman, NITRA, Sh. R.L. Nolkha proposed the formal vote of thanks.

#### **Shri S. K. Kapoor Elected as NITRA's New Chairman at the 42<sup>nd</sup> AGM**

The members of Council of Administration NITRA met in the 42<sup>nd</sup> AGM held on September 18, 2018 at NITRA Campus, Ghaziabad and elected its new leadership team for 2018-19.

Sh. S. K. Kapoor, MD, Surya Processors (P) Ltd. is elected as the new Chairman of NITRA. Sh. Dinesh Nolkha, MD, Nitin Spinners Ltd. is elevated as Dy. Chairman. Young and dynamic entrepreneur Sh. Raj Kumar Jain, MD, Zonac Knitting Machines (P) Ltd. has been inducted as the new Vice Chairman. Sh. Sanjay K. Jain, the outgoing Chairman handed over the baton to the new team. While taking over the charge, the newly appointed chairman profusely thanked the outgoing Chairman for his invaluable guidance that had helped NITRA grow during his tenure. Sh. Kapoor also assured to intensify NITRA's R&D and other services for Indian T&C industry.

#### **NITRA's New Chairman Graces 15<sup>th</sup> Convocation**

NITRA's 15<sup>th</sup> Convocation Ceremony was held on Tuesday, September 18, 2018 at NITRA, Ghaziabad in presence of Sh. S. K. Kapoor, Chairman, NITRA & MD, Surya Processors Pvt. Ltd., Sh. Raj Kumar Jain, Vice Chairman, NITRA & MD, Zonac Knitting Machines (P) Ltd. and Sh. Sanjay Kumar Jain, Immediate Past Chairman, NITRA & MD, TT Ltd. Amongst the eminent textile & garment industrialists, exporters and academicians present were Sh. Sanjay Gulati, MD, Growel Impex, Sh. Pawan Arya, GM, Orient Craft, Sh. R. C. Kesar, DG, OGTC and Prof. R. Chattopadhyay, IIT, Delhi. Also present on the occasion were Dr. Arindam Basu, Director General, Sh. Abhijit Pal, Officiating Director and faculty members. A total of 140 students were awarded certificates and medals in the convocation.

Dr. Arindam Basu welcomed the audience while Sh. Sanjay K. Jain and Sh. Sanjay Gulati delivered special address. The newly elected Chairman of NITRA Sh. S. K. Kapoor, after delivering his Convocation Address distributed the awards and medals where other dignitaries also joined hands. Sh. Abhijit Pal, Officiating Director, proposed the formal vote of thanks.

#### **NITRA helps CITI in conducting "InnoTex 2018" as Knowledge Partner**

CITI, with NITRA as a knowledge partner, has organised an Innovation Contest "InnoTex 2018", first time in textile industry, for having innovations in Design, Method, Process, Product and Cost in Ginning, Spinning, Weaving, Knitting, Processing, Garmenting and Technical Textiles<sup>1</sup>.

### **NITRA Joins Swachhata Hi Seva Movement – Organizes Exhibition and seminar on Recycling of textile waste and process waste**

NITRA had an exhibition on Recycling of textile waste and process waste from 15<sup>th</sup> September 2018 to 2<sup>nd</sup> October 2018 at NITRA, Ghaziabad. Lot of visitors visited exhibition which include common people, Managing Directors of big textile companies such as TT Ltd, Surya Processors, Growel Impex, Orient Craft etc. The students also participated in the exhibition. More than 500 students of various renowned colleges visited the exhibition.

NITRA also conducted a Seminar on the above topic on 18<sup>th</sup> September 2018. Many students and NITRA scientists exchange their views on the recycling and waste reduction in textiles and apparel industry. Also the best models and posters created by the students were awarded. Around 150 people attended the seminar.

NITRA and its academic wing NITRA Technical Campus actively took part in the ongoing Swachhata Hi Seva Movement. It is a fortnight-long string of awareness programs and cleaning operations all over the country during the period 15<sup>th</sup> September'18 to 2<sup>nd</sup> October 2018 as announced by the Govt. of India to mark the commencement of Mahatma Gandhi's 150<sup>th</sup> birth anniversary on 2<sup>nd</sup> October. To make this movement a success, all the employees of NITRA took part in "Shramdaan" on September 15, 2018.

### **NITRA Observes 4<sup>th</sup> International Yoga Day**

United Nations General Assembly has declared 21<sup>st</sup> of June as International Yoga Day. Yoga is ceremoniously practiced all over the world on this date. Furthermore, it is a matter of great pride that Yoga was originated in India in ancient time when people were used of meditation to transform their body and mind. In order to mark this day, NITRA has observed the 4th International Yoga Day at its campus in Ghaziabad. A series of speeches on benefits of practicing regular yoga to keep fit were delivered by practicing yoga experts. Staff members of both NITRA and NITRA Technical Campus were greatly benefited by the speeches and interactions amongst.

### **NITRA Signs MoU with All India Artisans and Craft workers Welfare Association "AIACA"**

NITRA has one more feather in its cap by signing an MoU with the All India Artisans and Craft workers Welfare Association (AIACA) on April 19, 2018. The purpose of this MoU is to create a framework for a platform of collaboration between NITRA and AIACA with specific objectives as given below:

- a. To promote eco-friendly production processes in the handicrafts and handloom sectors;
- b. To carry out relevant lab testings for various craft groups/ enterprises from AIACA's network and Craftmark members who apply for Craftmark Green;
- c. To act as an advisory body for various consultation and policy related work/ events to promote green production-consumption in the handicrafts/ handloom sector and strengthening measurable indicators;
- d. To work for enhancing technical knowledge and professional expertise in the crafts sector by providing technical trainings to various crafts clusters, organizations, SMEs, etc., on understanding and upgrading their production processes to include environment friendly practices and processes.

### **Textile Association (India) awards a prestigious scholarship to B.Tech Students**

It is a matter of great pride that four of NTC students, Mr. Ashutosh Yadav-B.Tech. (TT), Mr. Aman Bhardwaj-B.Tech.(TT); Mr. Shivang Maurya-B.Tech.(TT); and Mr. Nitin Kumar-B.Tech.(TC) have been awarded a prestigious scholarship by the Textile Association (India) by Sri. D.K Singh, unit president Delhi Textile Association (India) on 3<sup>rd</sup> March 2019 in the presence of Mr. Bhaskar Gupta Director(A), NITRA Technical Campus.

### **NITRA Technical Campus Students Bring Laurel Again, Crack IITs and NIFT**

It is the time for NITRA Technical Campus (NTC), a quality hub-centre for technical education in NCR, to rejoice again. Two of its final year students of Textile Chemistry branch, Mr. Vivek Yadav and Mr. Prabhat Singh have already qualified for higher studies in India's premier institutes. The first of them, Mr. Vivek Yadav, has qualified the GATE examination and selected for pursuing M. Tech. program from IIT Delhi while the second one, Mr. Prabhat Kumar qualified the NIFT Entrance Examination and selected for pursuing M.F.Tech. program from NIFT. One student of Computer Science branch, Mr. Rahul Chausisa has also been selected in M.Tech. at IIT Jodhpur. In this context, it must be mentioned that the tireless efforts of the pool of qualified and experienced NITRA Technical Campus faculty has played a big role in this success story, in addition to the students' individual hard work. NITRA Technical Campus wish them every success in life.

### **5 Students from NITRA Technical Campus Amongst University's Top 10 Rankers!**

It is a matter of great delight that following five students from NITRA Technical Campus secured positions amongst top 10 university rankers in B. Tech in the recently concluded B. Tech final examination conducted by AKTU, Lucknow:

1. Vivek Yadav	2 <sup>nd</sup> rank	4. Vijay Kumar Singh	7 <sup>th</sup> rank
2. Mayukshi Devi	5 <sup>th</sup> rank	5. Harendra Kumar Ray	8 <sup>th</sup> rank
3. Pushpendra Dixit	6 <sup>th</sup> rank		

### **NITRA Technical Campus Organizes Techno-Science Quiz 2018**

The 5<sup>th</sup> Techno-Science Quiz Contest was organized by NITRA Technical Campus (NTC) at NITRA, Ghaziabad on 17<sup>th</sup> November, 2018. The competition was open for 12<sup>th</sup> Standard science-stream students from various reputed schools situated in and around Ghaziabad. As many as 140 students from 13 schools participated in this quiz competition. Sh. Manish Tiwari from KGDS SVM School emerged the winner of the contest. Sh. Manan Goel from Dehra Doon Public School secured the 2<sup>nd</sup> position whilst Sh. Vipul Singh from KGDS SVM School ranked at the 3<sup>rd</sup> position. All the winners were rewarded with cash prize and certificate. Participation certificate was also awarded to all contestants in order to acknowledge and encourage the young scientific minds. In addition to above, memento was presented to each participating school as a token of recognition. Sh. A. Pal, Officiating Director, NITRA, Sh. Bhaskar Gupta, Director (A), NTC and respective HoDs of CSE and TT branches Dr. B. K. Sharma and Sh. Neeraj Agarwal distributed the prizes.

### **Voluntary Blood Donation Camp Organized at NITRA Technical Campus**

A voluntary Blood Donation Camp was organized at NITRA Technical Campus (NTC) on 29<sup>th</sup> October, 2018. This noble event is organized with a view to inculcate the moral value of social responsibility amongst its students. At the same time, this event also encourages the students become part of various philanthropic activities that they should indulge in from a very young age. Ghaziabad District Hospital (MMG) associated with NTC to hold this camp. Dr. Arindam Basu, Director General; Sh. Bhaskar Gupta, Director (A); and Dr. Panwar (Ex CMS) were present on the occasion to encourage the students who donated blood voluntarily.

## 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 decentralised 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 decentralised power loom sector and make them aware of need and importance of testing required for meeting forthcoming changes in reference to the globalisation 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 decentralised power loom industry towards upgrading / modernising 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 Looms Service Centres carried out following activities during the year 2018-2019:

1. Liaison visits/survey carried out (no. of units covered)	-	4025
2. Technical assistance/consultations provided	-	56
3. Designs developed	-	31
4. Samples tested	-	2602
5. No. of persons trained	-	1281
6. Exhibitions/seminars conducted	-	82

## 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	58	168	1359	672	345	2602

## 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	11	15	26

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 decentralised Power Loom Sector.

## SOCIAL SECURITY RELATED ACTIVITIES

Power Loom Service Centres are also involved in insuring power loom workers under Group Insurance Scheme (previously known as Janshree Bima Yojana) towards their social security. During the year 2018-19 a total of 13,611 powerloom workers were insured through NITRA Power loom Service Centres.



Hon'ble MoS for External Affairs Gen. (retd.) V. K. Singh, Chief Guest at the 58<sup>th</sup> JTC at NITRA, felicitates Sh. Abhijit Pal, Officiating Director for completing 25 years of service at NITRA as Dr. Arindam Basu, DG looks on Feb 15, 2019.



Dignitaries visiting the poster-presentation pavilion at 58<sup>th</sup> JTC on Feb 15, 2019.



Distinguished audience at the 4<sup>th</sup> National Conclave on Standards for Technical Textiles being greeted by Dr. Arindam Basu, Director General and other experts present in the meet on Feb 21, 2019.



Hon'ble MoS for Textiles along with members of NITRA Council of Admn and DG, NITRA unveils Focus Incubation Centre at NITRA campus on 27.07.18.

# ANNEXES

**MEMBERS OF THE COUNCIL OF ADMINISTRATION 2018-2019**

- |    |   |  |
|----|---|--|
| 1. | Shri S.K. Kapoor<br>(Chairman)          | Managing Director<br>Surya Processors Pvt. Ltd.<br>619, Bisrakh Road,<br>Village Chhapraulla,<br>Distt. Ghaziabad - 201 001                                    |
| 2. | Shri Dinesh Nolkha<br>(Deputy Chairman) | Managing Director<br>Nitin Spinners Ltd.<br>12, Badal Textile Market<br>Pur Road<br>Bhilwara - 311 001 (Raj.)  |
| 3. | Shri Raj Kumar Jain<br>(Vice Chairman)  | Managing Director<br>Zonac Knitting Machines Pvt. Ltd.<br>D-1, D-2, Site B<br>Surajpur Industrial Area,<br>Greater Noida – 201 306<br>Distt. Gautam Budh Nagar |
| 4. | 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                                     |
| 5. | Shri Ramesh Kumar Jain                  | Chairman-cum-MD<br>Pasupati Spg & Wvg Mills Ltd.<br>127, 128 Tribhuvan Complex<br>Nehru Place, Mathura Road<br>Ishwar Nagar<br>New Delhi - 110 065             |
| 6. | Shri R.L. Nolkha                        | Chairman<br>Nitin Spinners Ltd.<br>16-17 KM Stone, Chittor Road<br>Hamirgarh – 311 025<br>Bhilwara (Rajasthan)   |
| 7. | Shri H.M. Vashisth                      | Executive President<br>Sutlej Textiles & Industries Ltd.<br>(Unit: Rajasthan Textile Mills)<br>Pachpahar Road<br>Bhawanimandi - 326 502 (Raj.)                 |

- |     |                                   |  |
|-----|-----------------------------------|--|
| 8.  | Shri Rajeev Jain                  | Business Head-Operations<br>(Yarn Business)<br>RSWM Limited<br>Village – Kharigram<br>Gulabpura – 311 021 (Bhilwara)         |
| 9.  | Shri G. Balasubramanian           | Secretary General<br>NITMA<br>PHD House, Sector 31-A<br>Chandigarh – 160 031   |
| 10. | Shri K.K. Agarwal                 | Chairman-cum-MD<br>Alps Industries Ltd.<br>57/2 & 58/1, Site-IV, Industrial Area<br>Sahibabad, Ghaziabad-201010 (U.P.)       |
| 11. | Shri Sushil Jindal                | Managing Director<br>Jindal Handtex Pvt. Ltd.<br>Khasra No.371-372, Vill. Sahzadpur<br>Muradnagar – 201206, Distt. Ghaziabad |
| 12. | Dr. Anil Gupta                    | Director Finance<br>NTC Ltd.<br>Core IV, Scope Complex<br>7, Lodhi Road,<br>New Delhi – 110 003                              |
| 13. | Shri Vivek Plawat                 | Executive Director<br>NTC Ltd.<br>Core IV, Scope Complex<br>7, Lodhi Road,<br>New Delhi – 110 003                            |
| 14. | Director General                  | Council of Scientific and<br>Industrial Research<br>Anusandhan Bhawan<br>2, Rafi Marg<br>New Delhi – 110 002                 |
| 15. | Addl. Secretary &<br>Fin. Advisor | Ministry of Textiles<br>Govt. of India<br>Udyog Bhawan<br>New Delhi – 110 011  |
| 16. | Joint Secretary (R&D)             | Ministry of Textiles<br>Govt. of India<br>Udyog Bhawan<br>New Delhi – 110 011  |

17. The Textile Commissioner  
Ministry of Textiles  
Office of the Textile Commissioner  
(Powerloom Development Cell)  
48, Vithaldas Thakarsee Marg  
Nishta Bhawan (New C.G.O. Bldg.)  
Mumbai – 400 020
18. Shri Mehu Trivedi  
Chairman, TMMA (I) &  
Director  
The Indian Card Clothing Co. Ltd.  
Mumbai-Pune Road, Pimpri  
Pune – 411 018
19. Dr. Arindam Basu  
Director General  
NITRA  
Sector 23, Raj Nagar,  
Ghaziabad – 201 002
20. Shri M.N. Subramanian  
Director  
Ahmedabad Textile Industry's Research  
Association,  
P.O. Ambawati Vistar  
Ahmedabad – 380 015 (Gujarat)
21. Dr. Prakash Vasudevan  
Director  
The South India Textile Research  
Association  
13/37, Avanashi Road  
Coimbatore – 641 014
22. Dr. Anjan K. Mukhopadhyay  
Director  
The Bombay Textile Research Association  
Lal Bahadur Shastri Marg  
Ghatkopar (West)  
Mumbai – 400 086
23. Shri Sanjiv Malhotra  
Addl. Secretary General (Officiating)  
Apparel Export Promotion Council  
Apparel House, Institutional Area  
Sector 44, Gurgaon - 122 003 (Haryana)
24. Prof. Ashwini Agrawal  
Professor & Head  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi - 110 016
25. Dr. S. Sunanda  
Secretary General  
CITI, 6<sup>th</sup> Floor, Narain Manzil  
23, Barakhamba Road  
New Delhi – 110 001

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|-----|----------------------------------|--|
| 26. | Shri Ashish Bagrodia             | Chairman & Managing Director<br>Winsome Textile Industries Ltd<br>SCO 191-192, Sector 34 A<br>Chandigarh – 160 022   |
| 27. | Shri Rajeev Mehani               | Sr. Vice President<br>Vardhman Textiles Limited<br>Chandigarh Road<br>Ludhiana – 141 010   |
| 28. | Shri Vidit Jain                  | Jt. Managing Director<br>Pasupati Spg. & Wvg. Mills Ltd.<br>127, 128 Tribhuvan Complex<br>Nehru Place, Mathura Road<br>Ishwar Nagar<br>New Delhi - 110 065 |
| 29. | Shri Basudev Basu                | A.V.P. (R&D)<br>Ginni Filaments Limited<br>D-196, Sector-63<br>Noida – 201 307 (U.P.)  |
| 30. | Prof. Manjeet Jassal             | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas<br>New Delhi – 110 016  |
| 31. | Dr. J.V. Rao                     | Former DG & Advisor - NITRA<br>F-1, Friends Apartments<br>Madhu Vihar, I.P. Extn.<br>Patparganj<br>New Delhi – 110 092                                     |
| 32. | Shri R.C. Kesar                  | PNC 024 The Pinnacle<br>DLF City Phase V<br>Sector 43<br>Gurgaon - 122 009 (Haryana)   |
| 33. | Prof. Ravishankar Chattopadhyaya | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas<br>New Delhi - 110 016  |
| 34. | Shri Anup Banerjee               | Vice President (Tech. & Dev.)<br>APM Industries Ltd.<br>(Unit Orient Syntex)<br>SP 147 RIICO Industrial Area, Bhiwadi<br>Distt. Alwar – 301 019 (Raj.)     |

35. Shri Ashok Kapoor  
General Manager  
Nahar Spinning Mills Ltd.  
Nahar Tower, 373 Indl. Area-A  
Ludhiana – 141 003 (Punjab)
36. Shri L.N. Jhunjunwala  
LNJ Bhilwara Group  
Bhilwara Towers  
A-12 Sector-1  
Noida – 201 301
37. Shri Sharad Jaipuria  
Chairman & Managing Director  
Ginni International Ltd.  
2<sup>nd</sup> Floor, Shanti Chamber  
11/6B, Pusa Road  
New Delhi – 110 005
38. Shri Shishir Jaipuria  
Managing Director  
Ginni Filaments Ltd.  
H-6, Sector-63  
Noida – 201 301
39. Dr. Rikhab Chand Jain  
Chairman  
T.T. Limited  
879, Master Prithvi Nath Marg  
Opp. Ajmal Khan Park,  
Karol Bagh  
New Delhi – 110 005
40. Representative  
Federation of Hosiery Manufacturers'  
Association of India  
Metro Towers, 8<sup>th</sup> Floor  
1, Ho Chi Minh Sarani  
Kolkata – 700 071
41. Representative  
The Cotton Corpn. of India Ltd.  
Kapas Bhawan, Plot No. 3A  
Sector-10, CHD – Belapur  
Navi Mumbai - 400 614

## MEMBERS OF THE FINANCE & ADMINISTRATIVE SUB-COMMITTEE 2018-2019

- |    |  |  |
|----|--|--|
| 1. | Shri Dinesh Nolkha<br>(Chairman - FAC) | Managing Director<br>Nitin Spinners Ltd.<br>12, Badal Textile Market<br>Pur Road<br>Bhilwara - 311 001 (Raj.)                                      |
| 2. | Shri S.K. Kapoor                       | Managing Director<br>Surya Processors Pvt. Ltd.<br>619, Bistrakh Road,<br>Village Chapraula,<br>Distt. Ghaziabad - 201 001                         |
| 3. | Shri Raj Kumar Jain                    | CEO<br>Zonac Knitting Machines Pvt. Ltd.<br>D-1, D-2, Site B<br>Surajpur Industrial Area,<br>Greater Noida – 201 306<br>Distt. Gautam Budh Nagar   |
| 4. | 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                         |
| 5. | Shri Ramesh Kumar Jain                 | Chairman-cum-MD<br>Pasupati Spg & Wvg Mills Ltd.<br>127, 128 Tribhuvan Complex<br>Nehru Place, Mathura Road<br>Ishwar Nagar<br>New Delhi - 110 065 |
| 6. | Shri R.L. Nolkha                       | Chairman<br>Nitin Spinners Ltd.<br>16-17 KM Stone, Chittor Road<br>Hamirgarh – 311 025<br>Bhilwara (Rajasthan)                                     |
| 7. | Shri Shishir Jaipuria                  | Managing Director<br>Ginni Filaments Ltd.<br>H-6, Sector-63<br>Noida – 201 301   |

- |     |                          |  |
|-----|--------------------------|--|
| 8.  | Dr. Rikhab Chand Jain    | Chairman<br>T.T. Limited<br>879, Master Prithvi Nath Marg<br>Opp. Ajmal Khan Park, Karol Bagh<br>New Delhi – 110 005                               |
| 9.  | Secretary General        | CITI, 6 <sup>th</sup> Floor, Narain Manzil<br>23, Barakhamba Road<br>New Delhi – 110 001   |
| 10. | Joint Secretary (R&D)    | Ministry of Textiles, Govt. of India<br>Udyog Bhawan<br>New Delhi – 110 011  |
| 11. | The Textile Commissioner | Ministry of Textiles<br>Office of the Textile Commissioner<br>48, Vithaldas Thakarsee Marg<br>Nishta Bhawan (New C.G.O. Bldg.)<br>Mumbai – 400 020 |
| 12. | Shri Rajeev Jain         | Business Head - Operations<br>(Yarn Business)<br>RSWM Limited<br>Vill. Kharigram<br>Gulabpura – 311 021<br>Distt. Bhilwara                         |
| 13. | Prof. Ashwini Agrawal    | Professor & Head<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas<br>New Delhi - 110 016                             |
| 14. | Dr. Arindam Basu         | Director General<br>NITRA<br>Sector 23, Raj Nagar,<br>Ghaziabad – 201 002  |
| 15. | Dr. J.V. Rao             | Former DG & Advisor - NITRA<br>F-1, Friends Apartments<br>Madhu Vihar, I.P. Extn.<br>Patparganj<br>New Delhi – 110 092                             |
| 16. | Shri R.C. Kesar          | PNC 024 The Pinnacle<br>DLF City Phase V<br>Sector 43<br>Gurgaon-122 009 (Haryana)   |

17. Dr. Anil Gupta  
Director - Finance  
NTC Ltd.  
Core IV, Scope Complex  
7, Lodhi Road,  
New Delhi – 110 003
18. Prof. Ravishankar Chattopadhyaya  
Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi - 110 016
19. Shri Basudev Basu  
A.V.P. (R&D)  
Ginni Filaments Ltd.  
D-196, Sector-63  
Noida – 201302 (U.P.)
20. Shri G. Balasubramanian  
Secretary General  
NITMA  
PHD House, Sector 31-A  
Chandigarh – 160 031
21. Shri Anup Banerjee  
Vice President (Tech. & Dev.)  
APM Industries Ltd.  
(Unit Orient Syntex)  
SP-147, RIICO Indl. Area  
Bhiwadi  
Distt. Alwar – 301 019

## MEMBERS OF THE RESEARCH ADVISORY COMMITTEE 2018-2019

- |    |   |   |
|----|---|---|
| 1. | Shri Raj Kumar Jain<br>(Chairman - RAC) | Managing Director<br>Zonac Knitting Machines Pvt. Ltd.<br>D-1, D-2, Site B<br>Surajpur Industrial Area,<br>Greater Noida – 201 306<br>Distt. Gautam Budh Nagar    |
| 2. | Shri Dinesh Nolkha                      | Managing Director<br>Nitin Spinners Ltd.<br>12, Badal Textile Market<br>Pur Road<br>Bhilwara - 311 001 (Raj.)   |
| 3. | 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   |
| 4. | Shri S.K. Kapoor                        | Managing Director<br>Surya Processors Pvt. Ltd.<br>619, Bisrakh Road, Village Chhapraulla,<br>Distt. Ghaziabad - 201 001  |
| 5. | Dr. Arindam Basu                        | Director General<br>NITRA<br>Sector 23, Raj Nagar,<br>Ghaziabad – 201 002   |
| 6. | Shri Abir Chakrabarti                   | Head (TRADC)<br>Textile Research & Application<br>Development Centre, Birla Dham<br>Kharach, Kosamba (R.S.)<br>Distt. Bharuch – 394 120 (Gujarat)                 |
| 7. | Dr. Anjan K. Mukhopadhyay               | Director<br>BTRA<br>Lal Bahadur Shastri Marg<br>Ghatkopar (West)<br>Mumbai – 400 086  |
| 8. | Shri Ajay Sharma                        | General Manager (R&D)<br>(Rajasthan Spg. & Wvg. Mills Ltd.,<br>Unit : Banswara), LNJ Bhilwara Group<br>Bhilwara Towers, A-12, Sector 1,<br>Noida - 201 301 (U.P.) |

9. Shri Arvind Yadav  
Chairman cum Managing Director  
Arikav Textiles Ltd.  
C-4, Site-IV, UPSIDC Indl. Area  
Kasana Road, Greater Noida  
Gautam Budh Nagar (U.P.)
10. Dr. Amit Rawal  
Associate Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi - 110 016
11. Dr. Ashwini Kumar Agrawal  
Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi - 110 016
12. Dr. Abhijit Majumdar  
Associate Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi - 110 016
13. Lt. Commander Arun Samal  
Dy. Director (S&D) for Principal Director  
Integrated Headquarter  
Ministry of Defence (Navy)  
Directorate of Clothing & Victualling  
D-II Wing, Sena Bhawan  
New Delhi – 110 011
14. Dr. B.S. Butola  
Associate Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi – 110 016
15. Dr. B.S. Yadav  
General Manager  
Mahima Fibres Pvt. Ltd.  
406, Corporate House, 4<sup>th</sup> Floor  
Opp. Jhabua Tower, 169 RNT Marg  
Indore – 452 001 (M.P.)
16. Dr. Deepti Gupta  
Professor  
Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas  
New Delhi – 110 016

- |     |                          |  |
|-----|--------------------------|--|
| 17. | Shri Jagvart Singh       | Vice President (Processing)<br>SPL Limited<br>Plot No. 21, Sector 6<br>Faridabad (Haryana)   |
| 18. | Dr. J.V. Rao             | CEO<br>Textile Skill Sector Council<br>1501,<br>15 <sup>th</sup> Floor, Nirmal Tower<br>26, Barakhamba Road<br>New Delhi – 110 001                 |
| 19. | Dr. Kavita Gupta         | Textile Commissioner<br>Office of the Textile Commissioner<br>48, Vithaldas Thakarsee Marg<br>Nishta Bhawan (New C.G.O. Bldg.)<br>Mumbai – 400 020 |
| 20. | Dr. Mangala Joshi        | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas<br>New Delhi – 110 016                                    |
| 21. | Dr. Manjeet Jassal       | Professor<br>Deptt. of Textile Technology<br>Indian Institute of Technology<br>Hauz Khas<br>New Delhi – 110 016                                    |
| 22. | Shri M.N. Subramanian    | Director<br>ATIRA<br>P.O. Ambawati Vistar<br>Ahmedabad – 380 015 (Gujarat)   |
| 23. | Dr. N.N. Mahapatra       | Vice President – Business Development<br>Colourant Ltd.<br>B-5/104, Goyal Intercity<br>Nr. SAL Hospital, Drive-in Road<br>Ahmedabad – 380 054      |
| 24. | Dr. Prakash Vasudevan    | Director<br>SITRA<br>13/37, Avanashi Road<br>Coimbatore Aerodrome<br>Coimbatore – 641 014 (T.N.)   |
| 25. | Shri Prasanta Kumar Deka | Vice President – Sales & Marketing<br>Rieter India Pvt. Ltd.<br>Karegaon Bhima, Pune   |

26. Shri Rajeev Jain  
Business Head – Operations  
(Yarn Business), RSWM Limited  
Kharigram, Gulabpura  
Distt. Bhilwara – 311 021 (Rajasthan)
27. Dr. R.S. Rengasamy  
Professor, Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas, New Delhi – 110 016
28. Dr. Ravishankar Chattopadhyaya  
Professor, Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas, New Delhi 110 016
29. Shri R.C. Kesar  
Director General  
Okhla Garment and Textile Cluster  
(OGTC), Y-29, Okhla Indl. Area  
Phase-2, New Delhi-1110 020
30. Dr. R. Alagirusamy  
Professor, Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas, New Delhi 110 016
31. Shri Sanjay Gulati  
Managing Director  
Growel Impex Pvt. Ltd.  
E-16, Greater Kailash, Part-II  
New Delhi - 110 048
32. Shri Sandip Hora  
C.E.O.  
Aeronav Industrial Safety Appliances  
E-24, Secor-7, Noida-201 301
33. Dr. S.M. Ishtiaque  
Professor, Deptt. of Textile Technology  
Indian Institute of Technology  
Hauz Khas, New Delhi - 110 016
34. Shri S.M. Dwivedi  
Managing Director  
Sara Textiles Ltd.  
Sara House, B-8, Sector-4  
Noida, Distt. G.B. Nagar
35. Shri Tarashankar  
Director (Deptt. of IT)  
Ministry of Information Technology  
Govt. of India  
6, CGO Complex  
Electronics Niketan, Lodi Road  
New Delhi – 110 003

## LIST OF MEMBER UNITS

**A. Units in Rajasthan**

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

**B. Units in Haryana**

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

**C. Units in U.P.**

1. Alps Industries Ltd.
2. Awadh Textwood (P) Ltd.
3. Bureau Veritas Consumer Products Services (India) Pvt. Ltd.
4. Dewan Textiles
5. Ginni Filaments Ltd.
6. Gajroula Spinning Mills
7. J.K. Synthetics Ltd.
8. Pasupati Acrylon Ltd.
9. Pawan Exports Pvt. Ltd.
10. Pasupati Fabrics
11. Shamken Multifab Ltd.
12. Shamken Spinners Ltd.
13. Sai Electricals
14. Sarla Fabric Ltd.
15. Surya Processors Pvt. Ltd.
16. Mahavir Spinfab Pvt. Ltd.
17. Jayshree International
18. Orient Craft Limited
19. Sybly Industries Ltd.
20. Aeronav Industrial Safety Appliances
21. Radnik Auto Exports
22. Shahi Exports Pvt. Ltd.
23. Pilkhuwa Water Proofing Co. Pvt. Ltd.
24. Zonac Knitting Machine (I) Ltd.
25. Derpa Industrial Polymers (P) Ltd.

**U.P. State Spg. Co. Ltd.**

1. Akbarpur unit
2. Barabanki Unit
3. Mau Nath Bhanjan unit
4. Rai Bareilly unit

**U.P.S.Y.C. Ltd.**

1. Banda unit
2. Jaunpur unit
3. Meja unit
4. Rasra unit

**U.P.S.T.C. Ltd.**

1. Jhansi Unit
2. Jaspur Unit
3. Kashipur Unit
4. Partapur Unit
5. Sandila Unit

**N.T.C. Ltd.**

1. Swadeshi Cotton Mills (Naini)
2. Swadeshi Cotton Mills (Mau)

**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. Shades of India Craft Pvt. Ltd.
8. Growel Impex Pvt. Ltd.
9. Kay Tent Industries

**E. Units in Punjab**

1. Abhishek Industries Ltd.
2. Adhinath Dyg. & Fsg. Mills
3. Abhinav Cotspin Ltd.
4. Bhandari Exports
5. J.C.T. Ltd.
6. Kharar Textile Mills
7. Malwa Cotton Spg. Mills Ltd.
8. Malwa Cotton Mills Ltd.
9. Nahar Fibres Ltd.
10. Nahar Industrial Enterprises Ltd.
11. Nahar Exports Ltd.
12. Nahar Fabric Ltd.
13. Oswal Cotton Spg. Mills Ltd.
14. Rishab Spg. Mills
15. Rainbow Denim
16. Suraj Textile Mills
17. Vardhman Textiles Ltd.
18. Eveline International
19. Superfine Knitters
20. Duke Fashions
21. Top Gear Fashions

**F. Units in Himachal Pradesh**

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

**G. Units in J&K**

1. Chenab Textile Mills
2. H.E.G. Ltd.

**H. Units in Madhya Pradesh**

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

**I. Unit in Maharashtra**

1. Surya Lakshmi Cotton Mills
2. Alok Industries Ltd.
3. Kusumgar Corporate India Pvt. Ltd.

**J. Unit in Andhra Pradesh**

1. Shree Manufacturing Co. Ltd.

**K. Unit in West Bengal**

1. Jayashree Textiles

**L. Unit in Karnataka**

1. Bhoruka Textile Ltd.

**M. Units in Tamil Nadu**

1. K.G. Denim
2. Shubh Swasan India Pvt. Ltd.

**N. Units in Nepal**

1. Butwal Spinning Mills Ltd.
2. Jyoti Spg. Mills Ltd.

**O. Unit in Thailand**

1. Thai Acrylic Fibre Co.

**P. Unit in Gujarat**

1. Arvind Ltd.
2. Reliance Industries Ltd.

### Total Member Units

#### State-wise :

Andhra Pradesh	-	01	Punjab	-	21
Delhi	-	09	Rajasthan	-	19
Gujarat	-	02	Tamil Nadu	-	02
Haryana	-	23	Uttar Pradesh	-	40
Himachal Pradesh	-	04	West Bengal	-	01
Jammu & Kashmir	-	02	<b>Overseas :</b>		
Karnataka	-	01	Nepal	-	02
Madhya Pradesh	-	04	Thailand	-	01
Maharashtra	-	03			

**Total No. of Member Units - 135**

**STAFF MEMBERS**  
(As on 31.03.2019)

NAME	DESIGNATION	QUALIFICATION
<b>Dr. Arindam Basu</b>	<b>Director General</b>	<b>B.Sc. Tech. (Text. Tech.), M.Text., Ph.D., PGDBIM, FIE, FSAB, FTA</b>
Mechanical Processing Division (Spg.):		
Mr. Abhijit Pal	Officiating Director Head of Department	B.Sc.Tech. (Text. Tech.), MS (by Research), FIE, FIV
Mr. U.C. Sharma	Asstt. Director	B.Sc., AMIE (Text.), MS (by Research), MIE, FIV
Mr. Vineet Tyagi*	Business Development Manager	B.Sc., PG Dip. in Retail Management
Ms. Nashrah H. Kidwai*	Scientific Officer	B.Tech. (Textile Technology), M.Tech. (Textile Engg. & Mgt.)
Mr. Satyanarayana V.	S.T.A.	SSC, ITI, ATA
Environmental Engineering Division:		
Mr. Rahul Srivastava*	Env. Engineer	B.Tech. (Env. Engg.)
Physics & Quality Evaluation Division:		
Mr. Sanjeev Shukla	P.S.O Head of Department	B.Sc., B.Text., M.Tech., PGDBM
Mr. R.K. Sharma	S.S.O	B.Sc., ATA
Mr. Vikas Khurana	S.T.A.	M.Sc., Certi. Course in Computing
Mrs. Seema Sharma	S.T.A.	M.Sc.
Mr. R.P. Tripathi	Sr. Investigator	B.A.
Mr. G.C. Bajpai	Sr. Investigator	B.Sc. (Chem.)

NAME	DESIGNATION	QUALIFICATION
Chemical & Quality Evaluation Division and Polymer & Technical Textiles Division:		
Dr. M.S. Parmar	Jt. Director (Academics) Head of Department	M.Sc., Ph.D, PGDMM, DCPA
Dr. A.A. Ansari	Asstt. Director	M.Sc., M.Phil., Ph.D.
Mr. Maheshwar Singh	S.S.O.	B.Sc., Diploma in Tex.Chem.
Mrs. Neha Kapil	S.S.O.	M.Sc. (Textile & Clothing)
Dr. Girendra Pal Singh*	S.S.O.	Dip. in Handloom Technology, B.Tech. (Textile Technology), M.Tech. (Fibres and Textile Processing Technology, Ph.D.
Ms. Shweta Chauhan*	Scientific Officer	B.Tech. (Manmade Fibre Tech.), M.Tech. (Fibre Sc. & Tech.)
Mrs. Nidhi Sisodia*	Scientific Officer	M.Sc., M.Tech. (Text. Chem.)
Mr. Durgesh Raj Maurya*	Scientific Officer	B.Tech. (Carpet & Textile Tech.), M.Tech. (Textile Chemistry)
Ms. Ruvinder Kumari*	Scientific Officer	B.Tech. (Textile Chemistry) M.Tech. (Textile Engg. & Mgt.),
Mr. Kuldeep Singh	S.T.A.	M.Sc., PG Dip. in QC & ISO 9000, ATA
Mr. Swami Sharan	S.T.A.	M.Sc. (Chem.), ATA
Mr. Yogesh Kumar	S.T.A.	M.Sc. (Chem.), ATA
Mr. Atul Kumar Sharma	S.T.A.	B.Sc.
Mrs. Anjula Sharma	Data Processor	B. Com (P)
Mr. Prakash	Sr. Investigator	B.Sc., ITI
Mr. Harendra Singh	Sr. Investigator	M.Sc. (Chem.)
Mr. Devendra Singh	Sr. Investigator	B.A.

NAME	DESIGNATION	QUALIFICATION
Human Resource Development Division:		
Mr. R.S. Yadav	Asstt. Director Head of Department	B.Tech.(Text.), MS (by Research), MIE
Publications:		
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
Mechanical Processing Division (Wvg.):		
Mr. A.K. Pandey*	P.S.O.	B.Text. (Text. Tech.)
Mr. Mrinal Kanti Datta*	S.S.O.	B.Sc.Tech. (Text. Tech.), M.Tech.(Text. Tech.)
Mr. Vijay Shankar Khoiwal*	Scientific Officer	B.E. (Text. Tech.), M.Tech. (Text. Engg.)
Garment Centre:		
Mr. M.M.Tiwari*	Asstt. Director	B.Sc., Dip. in Text.
Mr. Vivek Agarwal	Asstt. Director	B.Tech, PGDBM, MS (by Research)
Mr. Neeraj Aggarwal	Asstt. Director	B.Text, MS (by Research)
Mr. M.K. Bansal	S.S.O.	Dip. in Text. Tech., MBA
Mrs. Shweta Saxena	S.S.O.	M.Sc. (Textile & Clothing)
Mr. Sanjay Gupta	J.S.O.	M.Sc.
Mr. Jaswant Singh	S.T.A.	Intermediate
Ms. Mona Chauhan*	Admission Coordinator	M.A., Dip. in Mass Communication
Engineering Division:		
Mr. Vikas Sharma	P.S.O. Head of Department	B.E.(Mech.), Adv. Dip. in MM & CM, BEE Cert. Energy Auditor
Mr. Raj Kumar Saini*	Asstt. Engineer (Elect.)	Diploma (Electrical), BEE Cert. Energy Manager

NAME	DESIGNATION	QUALIFICATION
Software Development Centre:		
Dr. B.K.Sharma	P.S.O. Head of Department	M.Sc., M.Tech., Ph.D., SMCSI, FIETE, MIAE, MCSTA, SMIACIT
Mr. Avnish Kumar Sharma	S.S.O.	M.Sc., PGD in Computer Programming, Diploma in Operations Management, MCA
Mr. Krishan Kumar Dewan	S.S.O.	B.A., BHM, e-Commerce, PGDBM, M.Sc. (Comp. Sc.)
Administration & Accounts:		
Mr. Atul Baijal*	Dy. Manager (Accounts) Head of Department	M.Com, L.L.B., MBA
Mr. Puneet Agrawal	Dy. Manager (Accounts)	B.Com., ACA
Mr. N. Govindaraj*	Data Processor	SSLC
Mr. S.A.A. Rizvi	Sr. Supervisor (Purchase)	B.Sc., PG Dip. in Computer Science & Application, MBA
Mr. Amit J. Singh	Sr. Supervisor (Accounts)	M.Com., MBA
Mr. Rajeev Singh Rawat	Sr. Supervisor (Accounts)	B. Com.
Mr. V.K. Singhal	Asstt. Accountant	M.Com.
Mr. P.K. Butola*	Store & Purchase Sup.	M.A.
Mrs. Saraswathi Devi*	Receptionist	B.A.
Library:		
Mr. Abbas Raza	Asstt. Librarian	B.Sc., M.A., DPA, PGDCA, MLISC
Directorate:		
Mr. Hari Om Sharma*	Steno-typist/ Data Processor	B.A., LL.B., PG Dip. in Pers. Mgt., Dip. in Stenography

NAME	DESIGNATION	QUALIFICATION
Customer Service Promotion Cell:		
Mr. Partha Basu	Public Relations Officer	B. Com, PGD in Advtg. & Mktg. Mgmt.
UPSDM Project:		
Ms. Ruchi*	Trainer	M.A.
NITRA Technical Campus:		
Mr. Bhaskar Gupta*	Director (Academics)	B.E. (Electronics & Commn.), M.Tech. (Electronics & Commn.)
Dr. Meghna Tyagi	Asstt. Prof. (Mathematics)	M.Sc., Ph.D.
Mr. R.C. Yadaw	Asstt. Prof. (Mechanical)	B.Tech. (Mech. Engg.), M.Tech. (Machine Design)
Mr. A.P. Srivastava*	Asstt. Prof. (CSE)	B.Tech. (IT), M.Tech. (CS), PGDBM
Mr. Nitin Kumar Sharma*	Asstt. Prof. (CSE)	B.Tech. (CSE), M.Tech. (CSE)
Mr. Sourabh Jain*	Asstt. Prof. (CSE)	B.E. (ECE), M.Tech. (Aerospace Engg.-D&C)
Mr. Pushkal Kumar Shukla*	Asstt. Prof. (CSE)	B.Tech. (CSE), M.Tech. (IT)
Mr. Umesh Joshi*	Project Officer	B.Tech. (Mech. Engg.)

#### SUPPORTING STAFF (TECHNICAL)

Environmental Engineering Division

*Jr. Investigator:*

Mr. D. Chakraborty\*

Physics & Quality Evaluation Division

*Laboratory Assistant:*

Ms. Supriya Singh\*  
Ms. Shalini Singh\*  
Ms. Shweta Yadav\*  
Mr. Vipin Jindal\*

*Peon:*

Mr. Ranveer Singh

Chemical & Quality Evaluation Division and Polymer & Technical Textiles Division:

*Jr. Investigator:*

Mr. Dushyant Kumar  
Mr. Umesh Pathak

*Laboratory Instructor:*

Mr. Sumit Kumar\*

*Lab Attendant:*

Mr. Om Pal Singh  
Mr. Sandeep Kumar\*

*Lab Assistant:*

Mr. Mohit Pandey\*  
Mr. Saurabh Dhar\*

Mechanical Processing Division (Wvg.)

*Weaver Helper:*

Mr. V. Ramesh

Garment Centre:

*Trainer Apparel Manufacturing:*

Mr. Asif Ali

UPSDM Project:

*Master Trainer Core Skill:*

Mr. Sushant Saurabh\*

Engineering Division

*Electrician:*

Mr. Sandeep Sharma\*  
Mr. Sachin Kumar\*

NITRA Technical Campus:

*Laboratory Instructor:*

Mr. Madan Gopal Pal\*  
Mr. Mahendra Sagar\*  
Mr. Rohitash Singh\*

*Laboratory Assistant:*

Mr. Dharmendra Kumar\*  
Mr. Ram Milan Kumar\*  
Mr. Raju Yadav\*  
Mr. Shiva Choudhary\*  
Mr. Vinay Pratap\*  
Mr. Ashish Kumar\*

SUPPORTING STAFF (NON-TECHNICAL)

Administration

*Sewing Machine Technician:*

Mr. Mukesh Kumar Tomar

*Driver:*

Mr. Anil Kumar

*Office Attendant:*

Mr. Narender Singh

Peon:  
Mr. Sukh Pal Sharma

Accounts

Accounts Assistant:  
Mr. Manjeet Singh Sachdeva\*

Trainee:  
Mrs. Santoshi Rana\*  
Mr. Hemand Kumar\*

Library:  
Draughtsman:  
Mr. M.K. Tomar

Directorate

Daftari: Mr. Dharamveer Singh      Driver: Mr. Ganesh Lal      Peon: Mr. Ramveer Singh      Courier: Mr. Radhey Shyam

NITRA Technical Campus:

Peon: Mr. Rajpal Singh\*      Caretaker Girls' Hostel: Mrs. Kala Naidu\*      Caretaker Boys' Hostel cum Supervisor: Mr. Yogesh Kumar Tiwari\*

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

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NAME	STATUS	QUALIFICATION	DIVISION
Mr. Kushagra Prakash*	Resident Manager	B.Text. (Text. Tech.) M.F. Tech.	PLSC, Meerut
Mr. M.K.S. Rathore	Technical Officer	B.Sc., Dip. in Manmade Fibre	PLSC, Kanpur
Mr. Om Singh	Incharge	Intermediate	PLSC, Bhitwara
Mr. D.K. Rai	T/F	ITI	PLSC, Gorakhpur
Mr. S.K. Pathania	T/F	High School	PLSC, Ludhiana
Mr. S. Ansari	Resident Manager	Dip. in Hand. Tech.	PLSC, Tanda
Mr. Jai Narain*	Resident Manager	M.Tech.	PLSC, Panipat
Dr. A.V. Agrawal	Deputy Director & Incharge	M.Text. (Text. Tech.), Ph.D., FIE, FIV	PLSC, Varanasi

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\*On contract.

**RESIGNATIONS, RETIREMENTS, DISMISSAL AND DEATH DURING THE PERIOD  
APRIL 2018 TO MARCH 2019**

S.No.	NAME	DIVISION	DESIGNATION
<b>A) Resignations / Expiry of contract:</b>			
1.	Mr. Kamal Raj*	PQE	Laboratory Asstt.
2.	Ms. Shradha Srivastav*	PQE	Laboratory Asstt.
3.	Mr. Riyasat Ali*	UPSDM Project	SMO Trainer
4.	Mr. Himanshu Kaushik*	UPSDM Project	Project Officer
5.	Mr. V.S. Kushwaha	PLSC, Ludhiana	Resident Manager
6.	Mrs. Seema Sharma*	UPSDM Project	SMO Trainer
7.	Mr. Vikram Singh*	Engineering	Sr. Electrician
8.	Mr. Manoj Kumar*	NTC	Assistant Registrar
9.	Mr. Vivek Saini*	NTC	Trainee
10.	Mr. Anuj Choudhary*	NTC	Laboratory Asstt.
11.	Mr. Shubham Awasthi*	NTC	Executive
<b>B) Retirements:</b>			
1.	Mr. M.M. Tiwari	Garment Centre	Assistant Director
2.	Mr. Atul Baijal	Accounts	Dy. Manager (Accounts)
3.	Mr. R.P. Tyagi	PLSC, Panipat	Tech. Asstt. II
4.	Mrs. Elizabeth John	Administration	Stenographer-I
5.	Mr. A.K. Singh	PQE	Assistant Director
<b>C) Dismissal:</b>			
1.	Mr. Ashwani Kumar Sharma	Administration	Data Processor
<b>D) Death:</b>			
1.	Mrs. Usha Rajan	Directorate	Stenographer-I

\*On contract.

## RESEARCH PAPERS PUBLISHED AND PRESENTED

S.No.	Title	Author(s)	Publication/Place	Date
1.	Value Added Products from Natural Fibres of Indian Himalayan Region	Arindam Basu, A. K. Pandey, M. S. Parmar & Shweta Chauhan	International Journal of Engineering Research & Technology, Vol. 8, Issue 03, p 118-122	March 2019
2.	Compressed air monitoring system for textile industry	Vikas Sharma, Paurush Godhar & Saurabh Kr. Rajput	International Journal of Engineering Research & Technology, Vol. 8, Issue 03, p 118-122	March 2019
3.	Development of speciality embroidery thread for application in stretchable knitted fabrics for body-fit garments	Neeraj Agarwal, M.S.Parmar & Vivek Agarwal	International Journal of Engineering Research & Technology (IJERT), Vol. 8, Issue 03, p 191-194	March 2019
4.	Unconventional natural fibers for textile application	M.S. Parmar & Arindam Basu	One-day Seminar on "Organic Food & Organic Textiles for Sustainable Environment" at Lakshmibai College, (University of Delhi)	February 20, 2019
5.	Study on thermal and moisture transfer performance of Fire-fighter's protective clothing at different conditions	M.S. Parmar, Ruvinder Kumari & Swami Sharan	58 <sup>th</sup> JTC, NITRA, Ghaziabad	February 15, 2019
6.	Surface Modification of Cotton Fabric to Dye it Using Disperse Dye to Conserve Water	M.S. Parmar, Durgesh Raj Maurya, Nidhi Sisodia, Maheshwar Singh & Girendra Pal Singh	58 <sup>th</sup> JTC, NITRA, Ghaziabad	February 15, 2019

S.No.	Title	Author(s)	Publication/Place	Date
7.	Development of value added products from natural fibres produced in Indian Himalayan Region	Arindam Basu, A.K. Pandey, M.S. Parmar & Shweta Chauhan	58 <sup>th</sup> JTC, NITRA, Ghaziabad	February 15, 2019
8.	Standardization of protective textiles	A. Basu	4th National Conclave on "Standards for Technical Textiles" organized by Ministry of Textiles, Govt. of India in collaboration with BIS and FICCI, New Delhi	February 21, 2019
9.	Facilities of Protective and Automotive Textiles in NITRA	Neha Kapil	Tech Tex 2019 organized by NITRA, Ghaziabad	February 16, 2019
10.	R&D in technical textiles	A. Basu	National conclave on technical textiles, Ministry of Textiles, Gol, Taj Mahal & Palace Tower, Mumbai	January 29, 2019
11.	NITRA Initiative in Protective Textiles: Special Attention on Riot Control Body Protector	Neha Kapil	Seminar on Technical Textiles and its opportunities in Defense Sector at Global Textile Expo 2019, Coimbatore	Jan. 28, 2019
12.	Stab and Impact Resistance properties of the present anti riot body protector	Neha Kapil, M.S. Parmar & Sangita Saini	International Seminar on Recent Trends and experimental approaches in science, technology, nature and management, FDDI, Jodhpur, Rajasthan	December 23-24, 2018

S.No.	Title	Author(s)	Publication/Place	Date
13.	Analysis of thermal and moisture transfer performance of Fire-fighter's protective clothing	M.S. Parmar, Ruvinder Kumari & Swami Sharan	6th International Conference on Technical Textiles and Nonwovens, IIT Delhi	December 6-8, 2018
14.	Opportunities for Technical Textiles in India - Panel Discussion	M.S. Parmar	Global Textiles Conclave 2018, organized by CITI, Vigyan Bhawan, New Delhi	November 27-28, 2018
15.	A new approach for dyeing cotton hank yarn	M.S. Parmar, Nidhi Sisodia, Neah Gaur, Ruchira Agarwal & Durgesh Raj Maurya	International Conference on Advances in Textile Materials and Processes, Organised by UPTTI, Kanpur with Knowledge incubation for TEQIP, IIT Kanpur	November 19-20, 2018
16.	Development of protective work-wear for cement workers	Shweta Saxena, M.S. Parmar, Durgesh Raj Maurya, Sangita Saini, Narendra Kajale & Mamta Singh	International Conference on Advances in Textile Materials and Processes (ATMP), Organised by UPTTI, Kanpur with Knowledge incubation for TEQIP, IIT Kanpur	November 19-20, 2018
17.	Thermal and flame retardant property of FR viscose and Aramid Blends	M.S. Parmar, Noopur Sonee & Chitra Arora	International Conference on Advances in Textile Materials and Processes, Organised by UPTTI, Kanpur with Knowledge incubation for TEQIP, IIT Kanpur	November 19-20, 2018

S.No.	Title	Author(s)	Publication/Place	Date
18.	R-CNN based Object Detection and Classification Method for Complex Sceneries	Jaswinder Singh & B.K. Sharma	International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 13	November, 2018
19.	Innovative weave designs for development of conductive woven fabric	D.N. Pandey, Arindam Basu & Pramod Kumar	International Conference on Advances in Textile Materials and Processes, Organised by UPTTI, Kanpur with Knowledge incubation for TEQIP, IIT Kanpur	November 19-20, 2018
20.	An Analysis on Stock Market Prediction using Data Mining Techniques for effective decision making	B.K. Sharma	National Seminar on Future Trends in AI and IOT, IPEM, Vijay Nagar, Ghaziabad	November 17, 2018
21.	Analysis and Improvement of Present Anti riot Body Protector	M.S. Parmar, Neha Kapil & Sangita Saini	International Conference on Advance in Polymer Science & Technology, Kathmandu, Nepal	November 1-3, 2018
22.	Comparative study of surface coating for automotive application-A review	R.C.Yadaw et.al	International Journal of Applied Engineering Research	Oct,2018
23.	Development of Cement porter/worker work wear	M.S. Parmar & Shweta Saxena	National Council for Cement and Building Material (NCB), Faridabad during their ongoing training program	Sept. 25 2018
24.	Protective work wear for unorganized workers and its standardization	Arindam Basu	Asian Textile Journal	August 2018

S.No.	Title	Author(s)	Publication/Place	Date
25.	Tribological behavior of thin film coating-a review	R.C.Yadaw et.al	International Journal of Engineering & Technology	August 2018
26.	Fabric surface smoothness measurement via newly developed smoothness tested	M.S. Parmar, Nidhi Sisodia & Maheshwar Singh	Online International Interdisciplinary Research Journal, Volume, Issue 04, p 107-114	July-August, 2018
27.	Electro-magnetic shielding performance of three-dimensional woven fabrics with copper-based hybrid yarn in X-band frequency range	D.N. Pandey, Arindam Basu, P. Kumar & H. Baskey	Journal of Industrial Textiles	July 2018
28.	Protective work wear : some uncommon fields	Arindam Basu	Asian Textile Journal	July 2018
29.	Application of Artificial Intelligence in Pattern Recognition	B.K. Sharma	FDP on Pattern Recognition, ABES Engg. College, Ghaziabad	July 9, 2018
30.	Indigenous protective textiles and their standardization	A. Basu	Technotex 2018, Mumbai	June 28, 2018
31.	Study on Polyamide-Cellulose and Polyester-Cellulose Blends for Uniform Cloth of Defense Personnel	M. S. Parmar, Maheshwar Singh & Nidhi Sisodia	Journal of the Textile Association, Vol 79, No.1, p 11-17	May-June 2018
32.	Third party Inspection of various clothing items	M.S. Parmar	ITBP H.O., CGO Complex, New Delhi	May 24, 2018
33.	Fabric Drape and its measurements	A. Basu	Asian Textile Journal, p 43-46	April 2018
34.	Face Recognition Techniques – A Review	Bhaskar Gupta	AKGEC International Journal of Technology, Vol. 9, No.1, ISSN 0975-951	Jan-June 2018

### TRAINING PROGRAMS, WORKSHOPS AND SEMINARS CONDUCTED

S. No.	Nature of Program	Venue	Division	No. of batches	No. of trainees
1.	Awareness & Internal Auditing as per ISO/IEC 17025:2017	TRADC, Kosamba	PUB/CQE	01	14
2.	Training program of quality control personnel (Investigators)	NITRA, Ghaziabad	CQE	01	03
3.	Awareness program on "Gender Equality at Work Place"	NITRA, Ghaziabad	Garment Centre	01	40
4.	Faculty Development Program (FDP) on Recent Trends in Data Mining Techniques and its Applications	NITRA, Ghaziabad	CSE	01	37
5.	Workshop on "Adobe Digital Disha" (AICTE approved skill development workshop)	NITRA, Ghaziabad	CSE	01	87
6.	Workshop on "Virtual Labs"	NITRA, Ghaziabad	CSE	01	98
7.	Training of Assessors (TOA)	NITRA, Ghaziabad	Publications/ MPD(Spg.)/ MPD(Wvg.)/ CQE/ Garment Centre	03	74
8.	Executive Development Program for Non Textile Executives	NITRA, Ghaziabad	Publications/ MPD(Spg.)/ MPD(Wvg.)/ CQE/ Garment Centre/ Engineering	01	07
9.	Fashion Marketing and Merchandising	NITRA, Ghaziabad	Garment Centre	01	45
10.	Apparel Design and Quality Control	NITRA, Ghaziabad	Garment Centre	01	33
11.	Apparel Production and Industrial Engg.	NITRA, Ghaziabad	Garment Centre	01	24

S. No.	Nature of Program	Venue	Division	No. of batches	No. of trainees
12.	Textile Technology and Management (DLP)	NITRA, Ghaziabad	Garment Centre	01	38
13.	Apparel Manufacturing and Merchandising (DLP)	NITRA, Ghaziabad	Garment Centre	01	16
14.	Quality Evaluation of Textiles and Garments	NITRA, Ghaziabad	Garment Centre	01	22
15.	Summer Training programs for College Students	NITRA, Ghaziabad	Garment Centre	01	29
16.	ETP – Operation, Maintenance & Trouble shooting	Laxmi Fab Dye Printing Pvt. Ltd., Greater Noida	ENV.	01	10

## CONSULTANCIES PROVIDED

S.No.	Type of Consultancy	Division	No. of Units
1.	Machinery Maintenance Audit	MPD Spg./HRD	04
2.	Energy Audit	Engg.	16
3.	Third party inspection for Blankets	PQE/CQE	08
4.	Third party inspection for T-shirts	PQE/CQE	10
5.	Third Party Inspection of Gabardine	PQE/MPD Wvg.	09
6.	Third Party Inspection of Angola Shirting	PQE/CQE	04
7.	Third Party Inspection of Coal Combat	PQE/MPD Wvg.	03
8.	Third Party Inspection of Serge / BD Serge	PQE/CQE/MPD Wvg.	03
9.	Third Party Inspection of Serge	PQE/MPD Wvg.	01
10.	Third Party Inspection of Thermal vest	PQE	01
11.	Third Party Inspection of Towel	PQE	05
12.	Third Party Inspection of Cotton Tape Newar	PQE	01
13.	Third Party Inspection of Wool Comforter	PQE	01
14.	Third Party Inspection of Jersey	PQE	01
15.	Third Party Inspection of Coat Parka	PQE	01
16.	Third Party Physical Verification of Khadi Marks	PQE	02
17.	Development of specifications (machines & materials) for garment unit	Garment Centre	01
18.	Process House Study	CQE	01
19.	Production Process Audit	MPD Spg./HRD	02
20.	Framing of Specification of Rain Suit (Protective Textile) for Indian Navy	CQE	01
21.	Diagnostic Study of a Textile Printing Mill	Env.	01
22.	Training Centre Validation and Alignment of Course Content to the respective TSC QPs	Publication/ PLSC, Bhilwara	01
23.	Working of Operation & Maintenance cost of CETP	Env.	01
24.	Adequacy Report of ETP	Env.	02

**International Consultancy:**

<b>S.No.</b>	<b>Type of Consultancy</b>	<b>Name of Company</b>	<b>Division</b>	<b>No. of Units</b>
1.	Energy Audit Study	M/s. PT Sunrise Bumi Textiles, Indonesia	Engg.	01
2.	Manpower Assessment Study	M/s. Thai Rayon, Thailand	MPD (Spg.)	01

## STAFF PARTICIPATION IN HRD PROGRAMS

Sl. No.	Details of the program	Venue	Date	Participants status
1.	National Seminar on "Role of Women in Upliftment of Textile Industry"	SVPISTM, Coimbatore	March 22, 2019	Mrs. Neha Kapil (as speaker)
2.	Conference on "Game changing in textile process and linking fashion for value creation".	FDDI, Jodhpur	March 7, 2019	Dr. A. A. Ansari (as speaker)
3.	India Plast 2019	Expo Centre, Greater Noida	March 3, 2019	Mrs. Neha Kapil & Mr. Vineet Tyagi (as delegates)
4.	Yarn, Fabric and Accessories Show	Panipat	Jan. 23-25, 2019	Mr. Vineet Tyagi & Mr. Jai Narayan (as delegates)
5.	9 <sup>th</sup> International Conference on Cloud Computing, Data Science and Engineering, CONFLUENCE-2019	Amity University, Noida	Jan. 10, 2019	Dr. B.K. Sharma (as Session Chair)
6.	International Seminar on recent trends and experimental approaches in science, technology, nature and management	FDDI, Jodhpur	Dec. 23-24, 2018	Mrs. Neha Kapil (as speaker)
7.	Texcon 18	Hotel The Lalit	Dec. 13-14, 2018	Mrs. Neha Kapil (as delegate)
8.	CITI Global Textiles Conclave and Innotex 2018	Vigyan Bhawan, New Delhi	Nov. 27-28, 2018	NITRA Technical Officers and students of final year B.Tech (TT & TC) (as delegates)
9.	Textile Summit -2018	PHD House, New Delhi	Nov. 17, 2018	Dr. M.S. Parmar Mr. R.K. Gaur Mr. Vineet Tyagi Ms. Neha Kapil Ms. Nidhi Sisodia Mr. V. Satyanarayan (as delegates)

Sl. No.	Details of the program	Venue	Date	Participants status
10.	CII – GeM National Public Procurement Conclave 2018	India Habitat Centre, New Delhi	Oct. 30-31, 2018	Mr. Vineet Tyagi (as special invitee)
11.	5 day-Entrepreneurship Development Program on "Solar PV Roof Top"	National Power Training Institute Punjab (India)	Oct. 8-12, 2018	Mr. R.C.Yadaw (as delegate)
12.	Workshop on " AICTE Internship Policy-2018"	AICTE, New Delhi	Sep.25, 2018	Mr. Bhaskar Gupta & Mr. Avnish Kr. Sharma
13.	Faculty Training program on "General Financial Rules & Official Procedures"	AKTU, Lucknow Campus	Aug.31, 2018	Mr. Avnish Kumar Sharma
14.	Yarn, Fabric and Accessories Show	Ludhiana	Aug.30-Sep.01, 2018	Mr.Vineet Tyagi & Mr. Rahul Kumar Singh (as delegates)
15.	One week FDP on "Application of MATLAB and LABVIEW IN Engineering "	ABES Engineering College, Ghaziabad	July 9-13, 2018	Dr. B.K. Sharma (as delegate)
16.	5-day FDP on "Ubiquitous Computing"	GNIOT, Greater Noida	July 9-13, 2018	Mr. Pushkal Kumar Shukla (as delegate)
17.	Faculty Development Program on Advanced Wireless Sensor Network	KIET, Ghaziabad	July 9-13, 2018	Mr. A.P. Srivastava (as participant)
18.	Technotex – 2018, organized by Ministry of Textile, Govt. of India and FICCI	Bombay Exhibition Central, Mumbai	June 28-29, 2018	Dr. Arindam Basu (as speaker), Dr. M.S. Parmar, Mr. Vineet Tyagi, Mr. Swami Sharan (as delegates)
19.	5 days NABL Assessors Training Course organized by NABL, Gurugram	NITTTR, Chandigarh	June 25-29, 2018	Mr. RK Gaur & Mr. Sanjeev Shukla (as participants)
20.	Google's Train-the-	ITS Engineering	June 25-29,	Mr. Nitin Kumar Sharma &

Sl. No.	Details of the program	Venue	Date	Participants status
	Trainer program on "Android Developer Fundamentals"	College, Greater Noida	2018	Mr. Saurabh Jain (as participants)
21.	"National Conference on Going Green" organized by AIACA, New Delhi	India Habitat Centre, New Delhi	June 11, 2018	Dr. A. A. Ansari as Panelist
22.	Conference on Apparel Logistics by Apparel Connect	Hotel Sangri La, New Delhi	May 17, 2018	Sh. Vivek Agarwal (as Panel speaker) & Sh. Kushagra Prakash (as delegate)
23.	Training of Master Trainer (ToMT)	AIMA, New Delhi	June 26-29 2018	Sh. Vivek Agarwal (as participant)

## ADDITIONAL SERVICES TO NITRA MEMBERS

NITRA has been providing laudable services to member units since its inception in 1975. 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 Asstt. 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	Monthly
2.	Asian Dyer	Monthly
3.	Asian Textile Journal	Monthly
4.	Asian Technical Textile Journal	Quarterly
5.	Apparel Online	Fortnightly
6.	Colourage	Monthly
7.	Computer Sanchar Soochna	Monthly
8.	Competition Success Reviews	Monthly
9.	CSI Communication	Monthly
10.	Express Computer	Monthly
11.	Digit	Monthly
12.	India Today (English)	Weekly
13.	Indian Journal of Fibre & Textile Research	Quarterly
14.	Indian Textile Journal	Monthly
15.	Journal of Textile Association	Monthly
16.	Journal of Textile Institute	Bi-monthly
17.	Textile Progress	Quarterly
18.	The Textile Magazine	Bi-monthly
19.	Textiles Magazine	Quarterly

**JOURNALS RECEIVED ON COMPLEMENTARY BASIS**

	<b>Name of Journal</b>	<b>Frequency</b>
1.	Apparel	Monthly
2.	BTRA Bulletin	Monthly
3.	BTRA Scan	Quarterly
4.	Fibre to Fashion	Monthly
5.	Garmentline	Monthly
6.	Hosiery Times	Weekly
7.	SIMA Review	Monthly
8.	SITRA Focus	Bi-monthly
9.	SITRA News	Bi-monthly
10.	SITRA Trends	Quarterly
11.	Textile Mirror	Bi-monthly
12.	Textile Times	Monthly
13.	Textile Value Chain	Monthly

**PLACEMENT OF STUDENTS OF NITRA TECHNICAL CAMPUS  
(As on 31.03.2019)**

**Branch : Textile Technology**

<b>S.No.</b>	<b>Student Name</b>	<b>Name of Company</b>
<b>2017-18</b>		
1.	Amit Singh	Hohenstein India Pvt. Ltd., Gurgaon
2.	Gajendra Rajput	Sahu Exports, Noida (U.P.)
3.	Anujeshwar Pal	CTA Apparels Private Limited, Noida (U.P.)
4.	Himanshi Gangwar	CTA Apparels Private Limited, Noida (U.P.)
5.	Kalpana Singh Samraat	CTA Apparels Private Limited, Noida (U.P.)
6.	Sudhir Kumar	CTA Apparels Private Limited, Noida (U.P.)
7.	Sunil Rathore	CTA Apparels Private Limited, Noida (U.P.)
8.	Surendra Kumar	CTA Apparels Private Limited, Noida (U.P.)
9.	Mamta Yadav	CTA Apparels Private Limited, Noida (U.P.)
<b>2018-19</b>		
10.	Anurag Kumar	Winsome Yarns Ltd., Chandigarh
11.	Akshay Kumar	Winsome Yarns Ltd., Chandigarh
12.	Kandarpa Kumar Nath	Winsome Yarns Ltd., Chandigarh
13.	Suraj Yadav	Vardhman Textiles Ltd.
14.	Nitin	Vardhman Textiles Ltd.
15.	Hazratun Nisha	Sara Textiles Ltd., Noida
16.	Rajat Pandey	Sara Textiles Ltd., Noida
17.	Avanish Yadav	Orient Craft Ltd., Gurgaon, Haryana
18.	Sonal Verma	Orient Craft Ltd., Gurgaon, Haryana
19.	Khitish Hazarika	Orient Craft Ltd., Gurgaon, Haryana
20.	Utkarsh Maurya	Orient Craft Ltd., Gurgaon, Haryana
21.	Lohit Gautam	RSWM Limited, Gulabpura Unit
22.	Manoj Kumar	RSWM Limited, Gulabpura Unit
23.	Susheel Kumar Yadav	RSWM Limited, Gulabpura Unit
24.	Asha Kumari	SEL India Limited
25.	Aditi Kushwaha	Mahavir Spinfab Pvt. Ltd., Kanpur
26.	Archana Kumari	Mahavir Spinfab Pvt. Ltd., Kanpur

**Branch : Textile Chemistry**

<b>S.No.</b>	<b>Student Name</b>	<b>Name of Company</b>
<b>2017-18</b>		
1.	Prashant Kumar	CTA Apparels Private Limited, Noida (U.P.)
2.	Akshay Singh	CTA Apparels Private Limited, Noida (U.P.)
3.	Smrati	CTA Apparels Private Limited, Noida (U.P.)
<b>2018-19</b>		
4.	Himanshu Gupta	Khosla Profil Pvt Ltd
5.	Diwakar Jaiswal	Gimatex Industries Private Limited, Dholka-Gujarat
6.	Neeraj kumar Sahu	Gimatex Industries Private Limited, Dholka-Gujarat
7.	Sunny Dowarah	Gimatex Industries Private Limited, Dholka-Gujarat
8.	Govind Kumar Kushwaha	Gimatex Industries Private Limited, Dholka-Gujarat
9.	Amit kumar	Gimatex Industries Private Limited, Dholka-Gujarat
10.	Anushka Saxena	Gimatex Industries Private Limited, Dholka-Gujarat
11.	Ankit Kumar Singh	Orient Craft Ltd., Gurgaon, Haryana
12.	Gaurav Kumar Singh	Orient Craft Ltd., Gurgaon, Haryana
13.	Sachin Katiyar	Orient Craft Ltd., Gurgaon, Haryana
14.	Umesh Mishra	Sara Textiles Ltd., Noida
15.	Dev Narayan Yadav	Trident Group

**Branch : Computer Science & Engineering**

<b>S.No.</b>	<b>Student Name</b>	<b>Name of Company</b>
1.	Satyam Pathak	Soft Solution Zone Pvt. Ltd., Ghaziabad
2.	Aditya Nama	eSec Forte Technologies, Gurugram
3.	Sandeep Sahu	Satyam WebTech Solution, Noida
4.	Rasna Devi	Step Ahead Foundation, Ghaziabad
5.	Chandan Mishra	Contemporary Connect, New Delhi
6.	Praveen Kumar	Elpida Nootbook, Delhi
7.	Mohammed Sahil	Moody's Analytics
8.	Harsh Rohilla	IT Technovita
9.	Jatin Kumar Gaur	Logic Info Solutions
10.	Siddhartha Singh	Logic Info Solutions
11.	Chandan Rai	TATA Consultancy Services Limited (TCSL)
12.	Vipul Kedia	Binary Consulting and Solutions LLP
13.	Satyajeet Mukerjee	Joulesto Watts Business Solutions Pvt. Ltd.
14.	Shri Om	Joulesto Watts Business Solutions Pvt. Ltd.
15.	Shubham Singh	Joulesto Watts Business Solutions Pvt. Ltd.
16.	Alkesh Chaurasia	Joulesto Watts Business Solutions Pvt. Ltd.
17.	Ashwani Raj Agrahari	Joulesto Watts Business Solutions Pvt. Ltd.



At the 42<sup>nd</sup> AGM of NITRA: (L-R) Dr. Arindam Basu, Director General, Sh. S. K. Kapoor, Chairman, Sh. Raj Kumar Jain, Vice Chairman and Sh. Sanjay Kumar Jain, Immediate Past Chairman, NITRA on 18.09.18.



Pass-out students receive certificate from Dr. Arindam Basu, DG, Sh. S. K. Kapoor, Chairman and Sh. Raj Kumar Jain, Vice Chairman during NITRA's 15<sup>th</sup> Convocation Ceremony on 18.09.18.



Members of the Council and other guests visit an exhibition organized by students of NITRA Technical Campus on the occasion of "Swachhata Hi Seva" movement during 15.09.18 to 02.10.18.



Ms. Neha Kapil, Sr. Scientific Officer receives a memento after presenting a paper at Global Textile Expo at Coimbatore, Tamil Nadu on 28.01.19.

**AUDITOR'S REPORT**  
**&**  
**BALANCE SHEET**

# BRAJESH AGRAWAL & ASSOCIATES

## CHARTERED ACCOUNTANTS

201, SHRI GANESH COMPLEX, e-35, JAWAHAR PARK, LAXMI NAGAR,  
DELHI-110092 PHONE: 011-22467890, 43026550 MOB.: 9810417310  
E-MAIL : agrawalbrajesh.ca@gmail.com

### AUDITOR'S REPORT

1. We have audited the attached Balance Sheet of NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION, Ghaziabad as at 31<sup>st</sup> March, 2019 and Income and Expenditure Account for the year ending 31<sup>st</sup> March, 2019 annexed thereto. These financial statements are the responsibility of the Association's Management. Our responsibility is to express an opinion on these financial statements based on our audit.
2. We conducted our audit in accordance with auditing standards generally accepted in India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.
3. We report that :
  - a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
  - b) The Balance Sheet and Income & Expenditure A/c referred to in this report are in agreement with the books of Account.
  - c) In our opinion and to the best of our information and according to the explanation given to us, the account read with accounting policies and notes on accounts give a true and correct view;
    - i. In case of balance sheet, of the state of Affairs of the Association as at 31<sup>st</sup> March, 2019, and
    - ii. In the case of Income and Expenditure A/c of the Excess of Expenditure over Income for Accounting year ending on that date.

For BRAJESH AGRAWAL & ASSOCIATES  
CHARTERED ACCOUNTANTS  
FRN-010696N

Sd/-

(CA BRAJESH AGRAWAL)

FCA/Partner

M.NO. - 089312

UDIN – 19089312AAAADKU795

Place: Ghaziabad  
Date : 27/07/2019

**NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION, GHAZIABAD**

**SOURCES OF FUNDS AND MANNER OF EMPLOYMENT AS AT 31<sup>ST</sup> MARCH 2019**

*(Amount in ₹)*

Sources of Funds	SCH. No.	As at 31.3.2019	As at 31.3.2018
Capital Funds:			
i) Corpus	1	82,82,219	82,17,219
ii) Assets created out of Grants	2	50,71,48,777	45,28,32,027
Reserves & Surplus	3	39,58,661	39,58,661
Depreciation Fund	4	9,82,71,566	9,49,25,349
R & D Reserve	5	3,81,61,589	5,31,15,797
Grants pending utilization	6	(1,59,25,812)	1,00,33,495
Current Liabilities	7	1,70,70,989	1,55,30,594
<b>Total :</b>		<b>65,69,67,989</b>	<b>63,86,13,142</b>
<b>Manner of Employment</b>			
Fixed Assets	8	57,49,82,566	52,00,75,176
Investments against Earmarked fund.	9	1,90,00,000	4,36,00,000
Current Assets, Loans & Advances	10	6,29,85,423	7,49,37,966
<b>Total:</b>		<b>65,69,67,989</b>	<b>63,86,13,142</b>

Sd/-  
**CHAIRMAN**  
Governing Council

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

Sd/-  
**DIRECTOR**  
GENERAL

Sd/-  
**DY. MANAGER**  
ACCOUNTS

Subject to our report of even date.  
For **BRAJESH AGRAWAL & ASSOCIATES**  
Chartered Accountants

Sd/-  
**(C.A. BRAJESH AGRAWAL)**  
PARTNER  
Membership No. 089312

Place : Delhi

Date : 27<sup>th</sup> July 2019

**STATEMENT OF INCOME GENERATION AND ITS UTILISATION**

**FOR THE YEAR ENDING 31<sup>ST</sup> MARCH, 2019**

*(Amount in ₹)*

<b>INCOME GENERATION</b>	<b>SCH. No.</b>	<b>As at 31.3.2019</b>	<b>As at 31.3.2018</b>
Grant-in-Aid to meet Recurring Expenditure (Non Plan)		1,00,00,000	1,10,00,000
Industry Contribution & Educational	11	6,68,82,624	7,15,03,669
Other Income	12	1,10,92,871	1,11,37,093
Grant-in-Aid to meet Expenditure on Projects	14	79,73,911	1,14,42,389
Grant-in-Aid to meet Expenditure at Powerloom Service Centres	15	1,56,94,290	1,34,97,000
<b>Total :</b>		<b>11,16,43,696</b>	<b>11,85,80,151</b>
<b>Deficit adjusted from R&amp;D Reserve</b>		<b>1,49,54,208</b>	
<b>UTILISATION</b>			
Expenditure of Establishment	13	6,31,84,333	5,26,49,798
Expenditure on Projects	14	87,02,896	1,43,81,026
Expenditure on Powerloom Service Centres	15	1,65,44,260	1,55,73,830
Expenditure on General Administration	16	3,48,20,198	2,01,63,039
Transfer to Depreciation Fund		33,46,217	34,94,558
<b>Total :</b>		<b>12,65,97,904</b>	<b>10,62,62,251</b>
Balance available for Appropriation		-	1,23,17,900
Transfer to R&D Reserve		-	1,23,00,000
Surplus transferred to Balance Sheet		-	17,900

Sd/-  
CHAIRMAN  
Governing Council

Sd/-  
CHAIRMAN  
Finance & Adm  
Committee

Sd/-  
DIRECTOR  
GENERAL

Sd/-  
DY. MANAGER  
ACCOUNTS

Subject to our report of even date  
For **BRAJESH AGRAWAL & ASSOCIATES**  
Chartered Accountants

Sd/-  
**(C.A. BRAJESH AGRAWAL)**  
PARTNER  
Membership No. 089312

Place : Delhi  
Date : 27<sup>th</sup> July 2019

**SCHEDULE – 1**

*(Amount in ₹)*

<b>CAPITAL FUNDS</b>	<b>As at 31.3.2019</b>	<b>As at 31.3.2018</b>
<b>1. Capital</b>		
<b>Corpus</b>		
a) Admission Fees (Members)	24,01,779	23,81,779
Balance at the beginning	65,000	20,000
Receipts during the year		
<b>Sub Total:</b>	<b>24,66,779</b>	<b>24,01,779</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>82,82,219</b>	<b>82,17,219</b>

**SCHEDULE – 2**

*(Amount in ₹)*

<b>CAPITAL FUND - ASSETS CREATED OUT OF GRANTS RECEIVED FROM GOVERNMENT AGENCIES</b>	<b>Balance As on 31.3.2018</b>	<b>Additions / Write-off during the year</b>	<b>Balance As on 31.3.2019</b>
<u>Capital Reserve : I – (Non Plan)</u>	32,76,379	-	32,76,379
<b>Sub Total :</b>	<b>32,76,379</b>	<b>-</b>	<b>32,76,379</b>
<u>Capital Reserve : II</u>			
(Sponsored Projects) - MOT	1,92,67,089	4,58,30,233	6,50,97,322
<b>Sub Total :</b>	<b>1,92,67,089</b>	<b>4,58,30,233</b>	<b>6,50,97,322</b>
<u>Capital Reserve : III</u>			
(Other Agencies) – National Jute Board DST	38,60,698	-	38,60,698
<b>Sub Total :</b>	<b>38,60,698</b>	<b>-</b>	<b>38,60,698</b>
<u>Capital Reserve : IV</u>			
(Power Loom Service Centres)	78,50,034	-	78,50,034
<b>Sub Total :</b>	<b>78,50,034</b>	<b>-</b>	<b>78,50,034</b>
<u>Capital Reserve : V</u>			
<u>(PLSC's income)</u>	4,91,755	22,420	5,14,175
<b>Sub Total :</b>	<b>4,91,755</b>	<b>22,420</b>	<b>5,14,175</b>
<u>Capital Reserve : VI</u>			
Government of Rajasthan for Bhilwara Centre	3,51,052	-	3,51,052
<b>Sub Total :</b>	<b>3,51,052</b>	<b>-</b>	<b>3,51,052</b>

<b>CAPITAL FUND - ASSETS CREATED OUT OF GRANTS RECEIVED FROM GOVERNMENT AGENCIES</b>	<b>Balance As on 31.3.2018</b>	<b>Additions / write-off during the year</b>	<b>Balance As on 31.3.2019</b>
<b><u>Capital Reserve : VII</u></b>			
Testing Lab Bhiwara, Panipat, Meerut & NITRA, Ghaziabad.	1,71,60,660	-	1,71,60,660
<b>Sub Total :</b>	<b>1,71,60,660</b>	<b>-</b>	<b>1,71,60,660</b>
<b><u>Capital Reserve : VIII</u></b>			
(CAD Centres at Bhiwara, 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	68,76,072	63,35,798	1,32,11,870
<b>Sub Total :</b>	<b>68,76,072</b>	<b>63,35,798</b>	<b>1,32,11,870</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>	15,41,12,797	18,26,439	15,59,39,236
<b>Sub Total :</b>	<b>15,41,12,797</b>	<b>18,26,439</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>	11,88,31,627	-	11,88,31,627
<b><u>Capital Reserve ; XIV - FIC (COE)</u></b>	2,87,26,617	3,01,860	2,90,28,477
<b>GRAND TOTAL:</b>	<b>45,28,32,027</b>	<b>5,43,16,750</b>	<b>50,71,48,777</b>
<b>Previous year</b>	<b>43,00,71,723</b>	<b>2,27,60,304</b>	<b>45,28,32,027</b>

**SCHEDULE-3***(Amount in ₹)*

<b>RESERVES AND SURPLUS</b>	<b>As at 31.3.2019</b>	<b>As at 31.3.2018</b>
Surplus accumulated: Excess of Income over Expenditure		
Balance at the beginning of Financial Year	39,58,661	39,40,761
Surplus for the year as per Account annexed	-	17,900
<b>Total :</b>	<b>39,58,661</b>	<b>39,58,661</b>

**SCHEDULE – 4***(Amount in ₹)*

<b>DEPRECIATION FUND</b>	<b>As at 31.3.2019</b>	<b>As at 31.3.2018</b>
Opening Balance	9,49,25,349	9,20,16,222
Depreciation for the year	33,46,217	(5,85,431) 34,94,558
<b>Total :</b>	<b>9,82,71,566</b>	<b>9,49,25,349</b>

**SCHEDULE – 5**

*(Amount in ₹)*

<b>R &amp; D RESERVE</b>		<b>As at 31.3.2019</b>	<b>As at 31.3.2018</b>
a) Opening Balance		5,31,15,797	4,08,15,797
+ Transfer to R&D Reserve		-	1,23,00,000
- Deficit Adjusted		1,49,54,208	
		<b>3,81,61,589</b>	<b>5,31,15,797</b>
b) Income from PLSCs'	26,66,293	-	-
(-) Spent under capex	22,420	-	-
Less : Adjustment during the year	26,43,873	-	-
<b>Total :</b>		<b>3,81,61,589</b>	<b>5,31,15,797</b>

**SCHEDULE – 6**

(Amount in ₹)

S. No.	GRANTS PENDING UTILISATION	Balance at the beginning	Receipts During the year	Adjustment during the year	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)	-	1,00,00,000	-	-	1,00,00,000	-
	NON-PLAN Previous Year	-	1,10,00,000	-	-	1,10,00,000	-
<b>II.</b>	<b>Plan (Ministry of Textiles &amp; other Agencies)</b>						
1.	Designing a compressed air monitoring system optimize energy consumption in a textile mill.	(14,59,245)	-	-	-	-	(14,59,245)
2.	Development of specialty embroidery yarn for application in stretchable fabric like knitted fabrics	(8,64,000)	-	-	-	-	(8,64,000)
3.	Study to Enhance Indian Apparel Exports	(13,38,750)	-	-	-	-	(13,38,750)
4.	Development of Electronic Drape Meter (DST) Based on Image Analysis Technique	(13,08,861)	5,00,000	-	-	-	(8,08,861)
5.	Development of Multi Layered Flame & Thermal Resistance Fabric for Fire Fighter Clothing	(11,25,729)	-	-	-	2,59,715	(13,85,444)
6.	Development of smart protective textiles for fire fighter soldier & old age people.	(27,161)	-	-	-	-	(27,161)
7.	Development of Protective Work Wear for Cement Porters	(7,26,101)	-	-	2,62,749	4,78,969	(14,67,819)
8.	Development of Fabric Smoothness Tester	(17,66,382)	7,99,000	-	-	-	(9,67,382)
9.	New approaches to reduce water consumption in textile wet processing	(32,910)	-	-	5,42,975	9,62,281	(15,38,166)
10.	Development of value added product from different fibres produced in Himalayan Region (Basic research)	1,46,97,205	2,01,07,200	-	4,49,81,880	55,96,913	(1,57,74,388)

S. No.	GRANTS PENDING UTILISATION	Balance at the beginning	Receipts During the year	Adjustment during the year	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
11.	Development of Air cleaner home textiles to reduce indoor air pollution	-	12,32,000	-	-	3,40,629	8,91,371
12.	Common Effluent Treatment Plant (CETP) Azrakpur, Bhuj	(2,65,166)	43,80,000	-	18,61,250	3,35,404	19,18,180
	<b>Sub Total:</b>	<b>57,82,900</b>	<b>2,70,18,200</b>	<b>-</b>	<b>4,76,48,854</b>	<b>79,73,911</b>	<b>(2,28,21,665)</b>
	<b>Previous Year:</b>	<b>(5,13,952)</b>	<b>1,95,85,400</b>	<b>-</b>	<b>18,99,203</b>	<b>1,13,89,345</b>	<b>57,82,900</b>
<b>III. POWERLOOM SERVICE CENTRES</b>							
1.	TANDA	-	12,00,000	1,85,646 82,154	-	14,67,800	-
2.	MEERUT	(6,48,358)	17,00,000	5,99,400 7,24,635	-	23,75,677	-
3.	LUDHIANA	(4,15,952)	15,00,000	3,13,095 4,67,307	-	18,64,450	-
4.	KANPUR	(10,94,555)	17,00,000	5,63,720 11,46,016	-	23,15,181	-
5.	GORAKHPUR	-	12,00,000	80,200 65,992	-	13,46,192	-
6.	PANIPAT	(24,71,333)	17,00,000	3,48,481 25,21,368	-	20,98,516	-
7.	BHILWARA	(21,73,911)	17,00,000	75,000 22,16,224	-	18,17,313	-
8.	VARANASI	22,922	15,00,000	4,78,331 50,836	-	20,52,069	-
	<b>Sub Total:</b>	<b>(67,81,187)</b>	<b>1,22,00,000</b>	<b>26,43,873</b> <b>72,74,532</b>	<b>-</b>	<b>1,53,37,218</b>	<b>NIL</b>
	<b>Previous Year:</b>	<b>(88,04,290)</b>	<b>1,22,00,000</b>	<b>33,20,103</b>	<b>-</b>	<b>1,34,97,000</b>	<b>(67,81,187)</b>
IV	PLSC Varanasi	1,18,28,292	-	27,00,000	72,33,563	-	18,94,729
V	Swachh Bharat Abhiyan	5,00,000	-	-	-	3,57,072	1,42,928
<b>VI. COE</b>							
	COE TMTT	(58,02,029)	-	76,66,743	18,64,714	-	NIL
	COE Focus Incubation Centre	(3,52,677)	-	3,52,677	-	-	NIL
<b>VII. ISDS</b>							
	ISDS Project	48,58,196	-	-	-	-	48,58,196
	<b>Grand Total:</b>	<b>1,00,33,495</b>	<b>4,92,18,200</b>	<b>56,127</b> <b>1,52,93,952</b>	<b>5,67,47,131</b>	<b>3,36,68,201</b>	<b>(1,59,25,812)</b>
	<b>Previous Year:</b>	<b>2,40,43,192</b>	<b>4,32,85,400</b>	<b>33,20,103</b>	<b>2,44,71,340</b>	<b>3,61,43,860</b>	<b>1,00,33,495</b>

**SCHEDULE – 7***(Amount in ₹)*

<b>S.NO.</b>	<b>CURRENT LIABILITIES</b>	<b>As at 31.3.2019</b>	<b>As at 31.3.2018</b>
1.	Sundry Creditors	16,84,003	23,56,632
2.	Outstanding Liabilities	61,85,272	36,98,004
3.	Security & other Deposits	92,01,714	94,75,958
<b>Total :</b>		<b>1,70,70,989</b>	<b>1,55,30,594</b>

SCHEDULE – 8

(Amount in ₹)

S. No.	FIXED ASSETS	Total cost as on 31.3.2018	Additions during the Year	Adjustment of sale/ W/o	Total cost as on 31.3.2019
1.	Building*	2,62,99,861	-	-	2,62,99,861
2.	Air conditioning Plant & Room Air-Conditioners	4,02,015	-	-	4,02,015
3.	Furniture A/c	19,58,035	-	-	19,58,035
4.	Fixture & Fittings	13,55,221	56,884	-	14,12,105
5.	Office Equipments	78,04,974	1,57,312	-	79,62,286
6.	Cooler (Room & Water)	6,46,384	-	-	6,46,384
7.	Vehicles	20,03,390	-	-	20,03,390
8.	Fire Extinguisher	1,36,288	-	-	1,36,288
9.	Intercom, Telephones	2,84,542	-	-	2,84,542
	<b>Machinery &amp; Equipments:</b>				
	A. In House R&D	2,14,94,486	4,00,558	-	2,18,95,044
	B. Sponsored Projects**	3,13,76,827	4,58,24,849	-	7,72,01,676
	C. CAD & Powerloom Service Centres**	2,30,87,227	63,39,488	-	2,94,26,715
	D. Testing Lab, Panipat Bhiwara & Meerut**	1,23,89,045	-	-	1,23,89,045
	E. Testing Lab, NITRA, Ghaziabad**	47,78,640	-	-	47,78,640
	F. Centre of Excellence Protech**	15,41,12,797	18,26,439	-	15,59,39,236
	G. Focus Incubation Centre (CoE)**	2,87,26,617	3,01,860	-	2,90,28,477
10.	ASIDE Govt. share **	5,77,20,000	-	-	5,77,20,000
	NITRA share	2,66,67,200	-	-	2,66,67,200
11.	ISDS Project **	11,88,31,627	-	-	11,88,31,627
	<b>Grand Total :</b>	<b>52,00,75,176</b>	<b>5,49,07,390</b>	<b>-</b>	<b>57,49,82,566</b>
	<b>Previous Year:</b>	<b>49,13,25,267</b>	<b>2,93,74,875</b>	<b>6,24,966</b>	<b>52,00,75,176</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.

**SCHEDULE – 9***(Amount in ₹)*

<b>S. No.</b>	<b>Investments against Earmarked fund (FDR with Banks)</b>	<b>As at 31<sup>st</sup> March 2019</b>	<b>As at 31<sup>st</sup> March 2018</b>
1.	Projects	-	2,66,00,000
2.	Others	1,90,00,000	1,70,00,000
<b>Total :</b>		<b>1,90,00,000</b>	<b>4,36,00,000</b>

**SCHEDULE – 10**

*(Amount in ₹)*

<b>S.No.</b>	<b>CURRENT ASSETS &amp; LOANS AND ADVANCES</b>	<b>As at 31.3.2019</b>	<b>As at 31.3.2018</b>
1.	Sundry Debtors	75,02,487	68,14,547
2.	Advance	3,44,203	3,79,572
3.	Sundry Deposits	16,34,818	6,25,098
4.	Prepaid Expenses	7,09,368	5,01,378
5. a)	Cash in Hand	1,22,798	1,51,997
b)	Balance with Banks	60,62,893	34,61,889
6.	Other Receivables	1,44,98,544	1,54,54,507
7.	FDR with Banks	3,03,14,605	4,46,96,740
8.	Accrued Income	17,95,707	28,52,238
<b>Total :</b>		<b>6,29,85,423</b>	<b>7,49,37,966</b>

**SCHEDULE – 11**

*(Amount in ₹)*

<b>S.No.</b>	<b>INDUSTRY CONTRIBUTION &amp; EDUCATIONAL</b>	<b>Current Year</b>	<b>Previous Year</b>
<b>1.</b>	<b>Training &amp; Consultancy</b>		
a)	Foreign assignments 18,18,919		
b)	ISDS & other Educational / Training Prog. 91,71,525		
c)	Other consultancy 81,89,653		
d)	NTC 3,44,15,249	5,35,95,346	5,39,95,761
<b>2.</b>	<b>Sample Testing Fees</b>	1,15,32,215	1,60,05,045
<b>3.</b>	<b>Income Testing Lab Bhilwara, Panipat &amp; Meerut</b>	8,37,563	8,72,863
<b>4.</b>	<b>Membership Subscription</b>	9,17,500	6,30,000
<b>Total :</b>		<b>6,68,82,624</b>	<b>7,15,03,669</b>

**SCHEDULE – 12***(Amount in ₹)*

<b>S.No.</b>	<b>OTHER INCOMES</b>	<b>Current Year</b>	<b>Previous Year</b>
1.	Overhead Recovery on Projects	39,76,142	42,10,812
2.	NITRA Publications	57,079	63,320
3.	Income from Investments	48,03,184	56,69,900
4.	Waste field cotton & Yarn & Income from land utilization	7,56,033	7,67,550
5.	Application Forms	1,18,652	84,000
6.	Miscellaneous Income	13,81,781	3,41,511
<b>Total :</b>		<b>1,10,92,871</b>	<b>1,11,37,093</b>

SCHEDULE – 13

(Amount in ₹)

EXPENDITURE ON ESTABLISHMENT	Current Year	Previous Year
NITRA	6,96,97,182	6,38,36,315
<b>Sub Total :</b>	<b>6,96,97,182</b>	<b>6,38,36,315</b>
<b>Less : Transferred to Expenditure on Projects</b>	<b>65,12,849</b>	<b>1,11,86,517</b>
<b>Total:</b>	<b>6,31,84,333</b>	<b>5,26,49,798</b>

SCHEDULE – 14

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

(Amount in ₹)

Sl. No.	Name of the Sponsored Project	2018-2019		2017-2018	
		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 Electronic Drape Meter (DST) Based on Image Analysis Technique	-	-	6,31,075	6,31,075
2.	Development of Smart protective Textiles for fire fighter, soldier & old age people	-	-	1,86,745	1,30,722
3.	Development of fabric smoothness tester	-	-	26,27,338	13,13,669
4.	Development of Multi layered flame & thermal resistance fabric for fire fighter clothing	3,71,022	2,59,715	19,27,155	13,49,009
5.	Development of protective work wear for cement porters	6,84,241	4,78,969	14,29,220	10,00,454
6.	New Approaches to Reduce Water Consumption in Textile Wet Processing.	13,74,687	9,62,281	18,73,445	13,11,412
7.	Development of value added product from different fibres produced in Himalayan Region (Basic research)	55,96,913	55,96,913	21,95,595	21,95,595
8.	Development of Air cleaner home textiles to reduce indoor air pollution	3,40,629	3,40,629	-	-
9.	Common Effluent Treatment Plant Azrakpur, Bhuj	3,35,404	3,35,404	34,57,409	34,57,409
10.	Centre of Excellence	-	-	53,044	53,044
	<b>Total :</b>	<b>87,02,896</b>	<b>79,73,911</b>	<b>1,43,81,026</b>	<b>1,14,42,389</b>

SCHEDULE-15

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

(Amount in ₹)

S.No	Place of the Centre	2018-2019		2017-2018	
		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	14,67,800	14,67,800	13,98,400	12,91,000
2.	MEERUT	23,75,677	23,75,677	24,08,339	18,60,000
3.	KANPUR	23,15,181	23,15,181	20,77,783	19,90,000
4.	LUDHIANA	18,64,450	18,64,450	16,74,990	15,90,000
5.	GORAKHPUR	13,46,192	13,46,192	13,47,443	12,20,000
6.	PANIPAT	23,37,986	20,98,516	21,70,314	19,25,000
7.	BHILWARA	20,77,813	18,17,313	22,10,104	17,80,000
8.	VARANASI	24,02,089	20,52,089	22,86,457	18,41,000
9.	Swachh Bharat Abhiyan PLSCs	3,57,072	3,57,072	-	-
<b>TOTAL :</b>		<b>1,65,44,260</b>	<b>1,56,94,290</b>	<b>1,55,73,830</b>	<b>1,34,97,000</b>

**SCHEDULE – 16**

*(Amount in ₹)*

<b>EXPENDITURE ON GENERAL ADMINISTRATION</b>	<b>Current Year</b>	<b>Previous Year</b>
Electricity Charges & DG Running	30,34,322	28,66,242
Traveling & Conveyance	17,70,185	14,49,367
Building Maintenance & Housekeeping	6,06,072	5,42,707
Repairs Plant & Machinery, Computer, Building & others	19,28,858	18,61,855
Legal & Professional Exps.	11,23,780	9,14,258
Security Arrangement	21,04,439	21,12,592
Books, Periodicals & Publication	2,80,031	3,99,217
Advertisement exps	11,79,748	11,46,445
Insurance	2,30,869	2,26,695
Cultivation / Horticulture Exps.	6,23,601	5,48,491
Postage & Telephone Exps.	4,64,676	6,00,543
Car Running & Maintenance	2,14,231	2,29,483
Printing & Stationery	9,75,450	9,99,809
Chemicals, Glassware and Spares Stores Consumed	6,90,725	8,21,825
Training & Seminar Exps.	4,96,841	94,258
Meeting Exps.	3,63,186	4,08,132
In House Project Exps.	5,66,979	2,81,107
Amount Write Off.	1,71,93,251	31,12,709
Audit fees	60,000	60,000
Testing lab exps., - Panipat, Bhilwara & Meerut	1,77,104	2,42,503
Other Expenses	7,35,850	12,44,801
<b>Total :</b>	<b>3,48,20,198</b>	<b>2,01,63,039</b>

## SCHEDULE – 17

### Accounting Policies and Notes on 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.

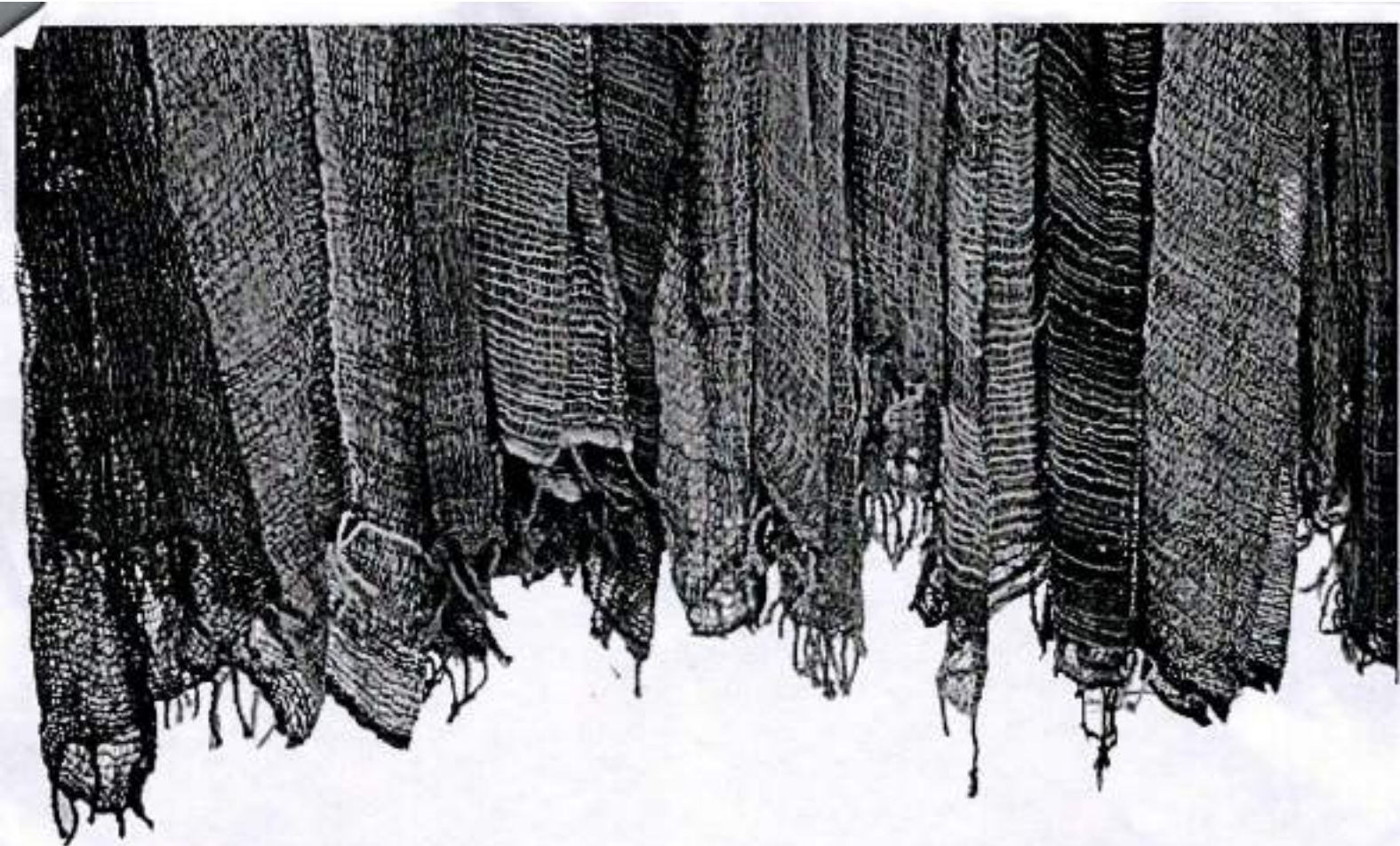
### NOTES ON ACCOUNTS:

1. Figures in Balance Sheet are rounded off to the nearest rupee.
2. Previous year figures have been regrouped or rearranged wherever considered necessary to make them comparable with those of Current year.

#### 3. AUDITOR'S REMUNERATION

	CURRENT YEAR	PREVIOUS YEAR
Audit Fees	60,000.00	60,000.00

4. Excess expenditure of earlier years Rs. 72.74 lacs in PLSC's written off during the year.
5. Rs. 76.67 lacs spent by NITRA against interest adjusted from 2011-12 to 2013-14 by TXC and Rs. 3.53 lacs excess expenditure of FIC has also written off during the year.
6. During the year Sundry Debtors / other balances of Rs. 18.99 lacs (net) has been written off.



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## **NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION**

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