



ANNUAL REPORT 2017-18



NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION

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



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

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MESSAGE FROM THE CHAIRMAN COUNCIL OF ADMINISTRATION



Dear Patron,

It is a proud privilege for me to be associated with NITRA, the leading textile research association in the country, for quite a long time now. NITRA, as you all know, has been providing R&D and other technical support to Indian textile and clothing industry since its inception in 1974 and caters to a long list of satisfied clientele. The pursuit for excellence is still on and the organization is growing at a steady pace. NITRA's esteemed patrons, valued clientele and efficient workforce deserve immense credibility for this.

Friends, the Indian textiles & clothing industry had experienced a moderate run of fortune during the fiscal 2017-18. On the flip side, the overall textile exports from India marginally dipped again and stood at \$37.74 billion as compared to \$38.6 billion in the previous year and of course missed the initial target of \$45. This perhaps happened due to the fact that the industry actually reeled under the impact of GST roll out resulting in tariff advantages being entirely enjoyed by our competitors like Bangladesh and Vietnam. However on the sunny side, the market started looking up riding on rejuvenated domestic demand, especially on the retail market, that has also steadily recovered from the impact of demonetization clamped more than a year back. In this opportune time, to take Indian textile industry to fast-track again, I personally feel that we are in dire need to have a comprehensive national and state coordination committee to streamline the policies of the centre and states, and bridge the gaps in communication.

While talking about NITRA, I feel happy to inform that during the reported period NITRA scientists have carried out 13 R&D projects, 7 completed, out of which one has been commercialized and six in the pipeline. 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 Centre of Excellence (CoE) for Protective Textiles & Automotive Textiles at NITRA is doing excellently for enhancing innovative technologies. In a very short span of time NITRA scientists had come up with many innovative products such as Military and paramilitary uniforms from NYCO, Cut resistant gloves from composite metallic yarn, and Development of Fabric for stab resistant vest to name a few in this domain. The highly sophisticated Focus Incubation Center (FIC) at our premises, has become operational by the time this is going to press,

for providing technical support to budding entrepreneurs interested in making innovative technical textiles products, will also add a feather to NITRA's cap.

NITRA's academic wing **NITRA Technical Campus**, established in 2011-12, has also grown up steadily during the reported period and successfully conducting three 4 year B.Tech. programs on Textile Technology, Textile Chemistry and Computer Science & Engineering. All the three programs are affiliated to Dr. A.P.J Abdul Kalam Technical University, Lucknow and approved by AICTE. The first two 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.

While I conclude, I thank the Ministry of Textiles, Government of India, U.P. State Govt., industries, various para-military and defence agencies and others who have utilized NITRA's facilities for supporting us. I assure that, NITRA would continue to serve all its stakeholders better in the coming days.

SANJAY KUMAR JAIN

FROM THE DIRECTOR GENERAL'S DESK



During the financial year 2017-18, NITRA has done commendable work to support the Indian textiles & garment industry. Following are the highlights:

Activities at a glance (2017-18)

R&D		Clientele	
Projects completed	07	Clients served	1151
Projects ongoing	06	New clients inducted	128
Research papers	35		
Consultancy services		PLSCs	
Technical consultancies	125	Technical assistance/consultancies	209
Technical opinions & defect analysis	11	Design developed	119
International assignments	04	Liaison visits/Survey carried out (No. of units covered)	3377
Testing services		Sample tested	2386
Quality evaluation in NITRA labs	5890	Persons trained	770
Training services		Exhibitions/seminars organized	166
Manpower training programs	19	Clients served	550
Personnel trained by NITRA	638	New clients added	60

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

Completed Projects:

- Development of fabric smoothness tester
- Development of work wear for electroplating workers
- A study on extraction and application of sugarcane fibres in textiles
- Extraction of textile fibres from pine needles and development of various products from it.
- Treatment of khadi cotton fabric with herbal extract for developing reusable baby diapers.

On-going Projects:

- Development of protective work-wear for cement porters

- Development of multi-layered flame & thermal resistant fabric for fire-fighting clothing
- New approaches to reduce water consumption in textile wet processing.
- Development of value added product from different fibres in Himalayan region (along with Mechanical Processing - Wvg. Division).

Publications: 24

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

Completed Project:

- Development of smart protective textiles for fire fighter, soldier and old age people (along with Chemical & Quality Evaluation Division).

Ongoing Project:

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

Publications: 08

Technical Consultancy: 10 (01 with other division)

International Assignments: 02

3. Software Development Centre

Publications: 04

Training Programs: 03

4. Engineering Division

Technical Consultancy: 35

Training Programs: 08

International Assignments: 02

5. Environmental Engineering Division

Technical Consultancy: 02 (01 with other division)

6. Physics & Quality Evaluation Division

Completed Project:

- Development of electronic drupe meter based on image analysis technique.

On going Project:

- Development of new born baby kit.

Publication: 01

Technical Consultancy: 63

7. Garment Centre

Publication: 01 (with Publication Division)

Technical Consultancy: 10

8. Publication Division

Publication: 02 (01 with Garment Centre)

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).

Technical Consultancy: 07

Quality Evaluation at NITRA Laboratories

Altogether 5,890 samples were tested at NITRA's NABL accredited laboratories during 2017-18. Following is the laboratory-wise break up for the same:

Physics Quality Evaluation Laboratory	-	2907 samples
Chemical Quality Evaluation Laboratory	}	- 1912 samples
Heat & Flame Testing Laboratory		
Polymer & Technical Textiles Laboratory	-	857 samples
Environment Laboratory & Eco Laboratory	-	214 samples

In addition to above, 11 fabric defect/damage analysis and technical opinions were carried out in various NITRA laboratories. More than 350 R&D samples were also tested in PQE and CQE labs.

Publications

In the year under review, 35 research & technical papers are published/ presented in technical journals and forums. Third edition of Quality Assurance in Apparel Manufacturing and second edition of Aramid Threads were also published during the year. (For details refer chapter Library and Information Services).

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).

Patents

Following patent was filed during the year:

1. Extraction of textile fibres from corn husk (Patent application No. 201711039937 dt. 09.11.2017).

Commercialization of NITRA Electronic Drape meter

M/s. Dinu Technologies, Coimbatore has been given license to manufacture NITRA Electronic Drape meter, developed under a project sponsored by Deptt. of Science & Technology, Govt. of India.

Important Events and Happenings during 2017-18*

- NITRA Signs MoU with University of Huddersfield, United Kingdom
- Grid-connected Roof-top Solar Power Plant at NITRA Becomes Operational
- Program on "Internal Auditing of ISO 9001:2015"
- An Awareness Program on ISO/IEC 17025:2017 (NABL) and Sources of Error & Uncertainty in Measurement
- Prestigious Merit-cum-Means Scholarship for NITRA Technical Campus (NTC) Students
- ISO 9001:2015 Transition Training Course with Specific Reference to Risk Assessment, Mitigation, Impact Assessment and Opportunities
- NITRA Technical Campus students attain top ranks in AKTU
- NITRA Organizes Research Advisory Committee Meeting
- Delegates from Bangladesh visit NITRA
- Dr. Arindam Basu, DG and Mr. A.K. Pandey, PSO, NITRA visit China
- NITRA Technical Campus organizes Techno-Science Quiz 2017 & Sports meet 2017
- Prof. R. Chattopadhyaya and Prof. V.K. Kothari of IIT, Delhi deliver lectures for NITRA Technical Campus students
- Chairman NITRA Graces 14th Convocation
- Electronic Drape Meter and Fabric Smoothness Tester, developed by NITRA, were inaugurated by Chairman, NITRA
- Conducted Workshops on Best Practices in Indian Garment Industry in Ludhiana & Delhi
- NITRA Observes 3rd International Yoga Day
- NITRA Technical Campus Students participate in Smart India Hackathon 2018
- DM Ghaziabad, Ms. Ministi S, IAS Visits NITRA
- Teachers Day celebrated by NITRA & NITRA Technical Campus students
- Parichaya – The Fresher's Party 2017 organized for freshers of 2017-18
- NITRA celebrates 71st Independence Day

*For details refer chapter Important Events and Happenings during 2017-18.

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 2017-18.

Total clients served	: 1151
New clients added	: 128

More than 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
Arihant Spinning Mills, Malerkotla	281

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

Unit	No. of Services
TUV-SUD South Asia Pvt. Ltd.	68
Uniproducts India Ltd., Rewari	67
Integrated Head Qtr. MOD (Navy), New Delhi	66
TUV Reheinland India Pvt. Ltd., Bangalore	63
Shiva Taxyarns Ltd., New Delhi	54
Central Sliver Plant, Etah	51

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

Unit	No. of Services
Ordnance Clothing Factory, Shahjanpur	44
Arvind Mills Ltd., Ahmedabad	42
Raksha Supreme Camouflage Pvt. Ltd., New Delhi	39
TUV Reheinland India Pvt. Ltd., Tirupur	37
Alps Industries Ltd., Ghaziabad	36
Central Sliver Plant, Sihore	36
Shiva Taxyarn Ltd., Coimbatore	32

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

Testing	2902
Consultancy/Training etc.	121
Total Services availed	2781

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.110.00 lacs towards recurring expenditure and Rs.180.60 lacs was released for R&D projects. NITRA have received grant of Rs.122.00 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.12.50 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 41st Annual General Meeting of the Association held on 18th September, 2017, 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, 2017 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 31st March 2018, 125 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 2017-18, NITRA worked on thirteen projects. Out of which seven have been successfully completed during the period whilst work is in progress for the six projects.

Work done in the area of R&D during the year 2017-2018 is categorized as below:

1. GOVERNMENT SPONSORED PROJECTS

1.1 Completed projects

(i) **Project title** : Development of fabric smoothness tester (Sponsored by Ministry of Textiles, Govt. of India)

- Objectives** :
- To design the apparatus as per the requirement of the concept
 - To take preliminary trials on the developed/fabricated apparatus to verify/optimize the suitability of design and to modify accordingly (if required)
 - To analyze smoothness properties of various fabrics using newly developed/fabricated apparatus.
 - Patent is filed.

- Research Outcome** :
- Design work completed.
 - Verification of design and development of apparatus completed.
 - Analysis of woven and knitted fabric is completed and results are compared with Kawabata system for verification.
 - Patent has been filed.
 - Project completed. Report preparation work is going on.

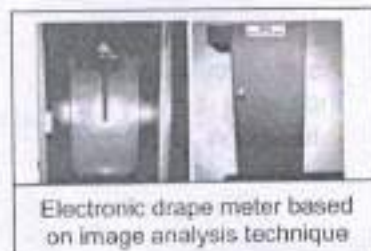


(ii) **Project title** : Development of electronic drape meter based on image analysis technique (Sponsored by Department of Science & Technology, Govt. of India)

- Objectives** :
- To develop an instrument to measure fabric drape using image analysis principle
 - To measure the accuracy of the developed instrument.

Research Outcome :

- An electronic fabric drape tester has been developed which will remove human bias and reduce the testing time drastically.
- The results will be very much useful for the fabric processors, garment and home textile manufacturers and commercial testing laboratories.
- Technology to manufacture NITRA Electronic Drape tester has been transferred to M/s. Dinu Technologies, Coimbatore.



(iii) Project title

: Development of smart protective textiles for fire fighter, soldier and old-age people (Sponsored by Ministry of Textiles, Govt. of India)

Objectives

- To develop smart/intelligent textiles to be used by fire fighters and soldiers
- To develop smart textiles for old age people for continuously monitoring their health condition from distance.
- To assess the performance of those garments at laboratory level.
- To take field trial with real fighters, soldiers & old age people.

Research Outcome :

- Garment has been developed using conductive yarn.
- Logics for communication from heart rate and body temperature have been finalized.
- In-house trials of the system have been started.
- Fabric and conductive fibre has been identified.
- Garments have been stitched & laboratory trials were conducted.
- As per decision of 8th PAC Meeting dated 23.3.18, the project has been closed.

1.2 Ongoing 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.
- Progress of work :**
- 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.
 - Designing of work wear and verification work is in progress.
- (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.
- Progress of work :**
- Fire fighter suits were procured and their physiochemical properties were evaluated.
 - Gaps were identified.
 - Development of multilayered fabric for fire fighter suit is under progress.
 - Evaluation of developed material is going on simultaneously.
 - Provisional patent has been filed for thermal layer.
- (iii) 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.

(iv) 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 products i.e. or home textile using these fabrics

Progress of work :

- Cultivation of flax fibres has been done.
- Extraction of fibre from Pine leaves have been standardized.
- Analysis of the fibres are in progress.
- Machinery manufacturers has been identified & purchase process is in progress.
- A patent has been filed regarding extraction of textile grade fibre from pine needles.

2. IN-HOUSE PROJECTS

2.1 Completed Projects:

(i) Project title : Extraction of textile fibres from pine needle and development of various products from it.

- Objectives :**
- To develop a method for extraction of fibers from pine needles.
 - To produce yarn with pure fibres and blends by optimising mechanical parameters.
 - To develop various kinds of fabric utilising these yarns
 - To develop final products i.e. home textile using these fabrics.

- Research Outcome :**
- Preliminary study on extraction of fibre from pine needle has been done.
 - Extracted fibres are blended with other fibres for manufacturing of yarn.
 - Few fabric samples were developed.
 - The evaluation of these fabrics have been completed.
 - This project has been converted in to the Ministry of Textiles sponsored project "Development of value added product from different fibres in Himalayan Region".

(ii) **Project title :** Development of work wear for electroplating workers

- Objectives :**
- To study and analyze the work wear clothing of workers in the plating industry and comparing it with the recommended standards to identify gaps if any.
 - To develop suitable fabric for work wear using various fibre compositions, weave structures and finishing treatments followed by analysis to understand whether the fabric is meeting the requirement as per recommended standards.
 - To design and develop work wear clothing to meet the safety and comfort requirements of the workers.

- Research Outcome :**
- Two fabric samples were found to be qualifying all the requirements of electro-plating worker's work wear amongst twenty fabric samples, identified initially.
 - Project has been completed.

(iii) **Project title :** Treatment of khadi cotton fabric with herbal extract for developing reusable baby diapers

- Objectives :**
- To test the physical and functional properties of Khadi cotton fabric.
 - To treat this fabric with anti-odor, anti-microbial and mosquito repellent finishes obtained from herbal extracts.
 - To test the effect of these natural finishes on functional properties of the Khadi cotton fabric.
 - To use this Khadi cotton fabric to develop reusable diapers for babies.
 - To test the durability of these natural finishes on Khadi cotton fabric when it is in use.

- Research Outcome :**
- Microcapsules have been formed.
 - Application of finishes on fabric using pad dry cure method has been done.
 - Testing of finished fabrics have been completed.

- Out of identified 15 samples, one sample was found to be qualifying all the requirement of reusable baby diapers.
- Reusable baby diapers have been developed.
- Project has been completed.

(iv) Project title : A study on extraction and application of sugarcane fibres in textiles.

Objectives :

- To explore extraction of fibres from the sugarcane bagasse and develop pure and blended sugarcane yarns using natural man-made fibres.

Research Outcome :

- Fibres have been extracted & treated with various chemicals & enzymes to get finer & smooth fibres.
- Extracted fibres have been converted into yarn. Fabrics and other products have been developed.
- Evaluation of characteristics are completed.
- Few products have been developed which indicated that there is a potential of application of sugarcane fibre in textiles.
- Project has been completed.

2.2 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 New born baby kit

Objectives : • To develop product specifications for the Baby Towel, Baby Nappy, Baby inner , Baby Cap , Baby Socks and Mother's gown.

Progress of work : • Product and Market survey completed.

3. Recently Sanctioned Project

(i) **Project title** : Development of Air Cleaner Home Textiles to Reduce Indoor Air Pollution

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 for various physico-chemical and performance properties.
- To take field trial of developed fabric in actual practice and modified, if required.

4. Proposed Projects

(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 modified, 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 require 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

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 audit, feasibility study, system certification, infrastructure set up, valuations, inspection and product/process & design development. Major areas in consultancy services offered during the period 2017-18.

Audit

Production process system and Energy.

Inspection

- Third party inspection for textile & related products

Areas of Consultancies

- Manpower Assessment / Workload assessment / Rationalization for Textile Mills & Garment units
- Maintenance health audit of old speed frames
- Machinery maintenance audit of spinning mills
- Production process audit
- Valuation of assets for textile units
- Techno Economic Viability (TEV) Study
- Third party Verification of Khadi mark
- Third party inspection of blankets, T-shirts, Gabardine, woolen socks, fabric for uniforms, Beret caps, Balaclava caps, Jersey, Thermal vest, shorts, Gat parka and Angola shirtings
- Setting up of Common Effluent Treatment Plant (CETP)
- Assessment of existing ETP
- Energy audit
- Assessment of ISDS trainees of textile & garment units

* Consultancy projects undertaken in the year 2017-18 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: 2907

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

Type of Samples Received:

Cotton, Polyester, Viscose, Nylon, Polypropylene, Jute, Bichhue Ghas, Hollow Fibres, Wool, Polyester wetting, Leaf & bark fibres, Silk, Cotton and Blended yarn, Sliver, Cord, Ropes, Filament yarn, Sewing threads, Industrial threads, Kite flying thread, Lycra belt, Tape, Cotton & Blended fabric, National flags, Canvas, Automotive fabrics, Laminated fabrics, T-shirts, Vest, Drawers, Biref, Blanket, Jersey, Serge, Sarees, Cardigan, Gloves, Mosquito net, Pillow, Quilt, Furnishing fabric, Socks, Jacket, Felton cloth, Carpet, Webbing, Towel, Bed sheets, Wool top, Mat, Rain coat, Garments, Protective 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.

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:

M/s. Aarti International Limited, Ludhiana; Kanpur Plasticpack Ltd., Kanpur; Garware Technical Fibres Ltd., Pune; D.V. Sharan & Sons, Ludhiana; Vallabh Textiles Co. Ltd., Ludhiana; Capital Textiles, Ghaziabad; Shree Sidhi Vinayak Texcolours P. Ltd., Sonipat; Chandramukhi Impex Ltd., Kolkata; Atul Textiles, Muradnagar, Ghaziabad; M.S. Chemicals, Delhi; Title Products P. Ltd., Panipat; CPWD, New Delhi; Kay Tent Industries, New Delhi; Bajrang Trading Company, Faridabad; Home Comfort Texofab

Lab, Panipat; Kwaliti Polythreads P. Ltd., New Delhi; Jagga Spinners P. Ltd., Karnal; Eros Nonwoven (India) Ltd., Panipat; Shree Bankey Bihari Enterprises, Noida; Ashton International P. Ltd., New Delhi; Shakthi Cards P. Ltd., Madurai; Hansvahini Auto Interior P. Ltd., Gurgaon; ASM Spintex, Panipat; Leesure Wear Exports Ltd., Ludhiana; Modern Testing Services India P. Ltd., Noida; Aggarwal Fibres P. Ltd., Panipat; Paras Wool Corporation, Panipat; Govindam Textiles Co., Ajmer; Breathfresh Solutions Pvt. Ltd., Delhi; Jagga Spinners Pvt. Ltd., Karnal; Shambhav Textiles, Panipat; Hellatex, Gurgaon.

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

No. of Commercial Samples Tested: 1912

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

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

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

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.

New Clients Added in CQE and H&F Labs :

M/s. Binaik Inc., Surat, Libsco Trading Co.; Goel Weaving Factory, Muradnagar; Govindam Textile Co., Ajmer; Modern Stage Service, Khla; S Girdhar International, Noida; Devashi Polytex Pvt. Ltd., Greater Noida; Nitto Denko India Pvt. Ltd., Gurgaon; Mukil Garment, Ghaziabad; Natroyal Industries, Gujarat; Nexgen Fabric Pvt. Ltd., Ghaziabad; Novelty Textile, Delhi; Diamond Varun Thread Mill Pvt. Ltd., New Delhi.

POLYMER & TECHNICAL TEXTILES LABORATORY

No. of Commercial Samples Tested : 857

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.

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.

New Clients Added:

M/s. Sanskar Group, Ajmer; Tata Autocomp Systems Pvt. Ltd., Uttarakhand; Rudra Polyester, Surat.

ECO LABORATORY

Number of samples analyzed: 93

Type of samples received

Fabric, Yarn, Fibers, Thread, Garment, Carpet, Blanket, Bath Rugs, Felt, Mosquito Net, Automobile Components, Glass Wool, Softener, Tape, Research samples etc.

Type of analyses conducted:

- Carcinogenic Aromatic Amines released from Azo dyes by HPTLC
- Hazardous Substances- Cd, Pb, Hg & CrVI by AAS & UV-Visible spectrophotometer
- Free and released Formaldehyde by UV-Visible Spectrophotometer
- Toxic Heavy Metals- Cd, Cu, Co, Cr, Hg., Ni, Pb, Zn etc. by AAS
- Other metals- Fe, Mn, Ca, Mg, Na, K, etc. by AAS
- Residual Chlorine by Indian Standard
- Penta Chloro Phenol (PCP) by HPTLC
- pH of Aqueous Extract by ISO 3071

New Clients Added:

M/s. Amar India Woolen Mills (P) Ltd., Amritsar; Jainson Hosiery Industries (Regd), Ludhiana; Bansal Spinning Mills Limited, Ludhiana; Anand International, Panipat; Rajshree Fabrics, Sirmour; Diamond Varun Thread Mill Pvt. Ltd., Sonapat; Delite International, Mumbai; Blueline Organics, Panipat; Nitika Interlining, Noida; Border

Security Force, Kadamtala, Darjeeling; 16 Base Repair Depot, New Delhi; Institute of Jute Technology, Kolkata; Devico Fabrics Pvt. Ltd., Panipat; M.B. Rubber Pvt. Ltd., Ghaziabad; Amritsar Swadeshi Textile Corporation Pvt. Ltd., Amritsar.

ENVIRONMENT LABORATORY

Number of samples analyzed: 121

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, Industrial Effluents, ETP Inlet, Intermediate and Outlet water, STP Inlet and Outlet Water, Chemicals, 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, SO₄, NO₃, PO₄, HCO₃, CO₃, SiO₂, Fe, B, F, Residual Cl₂ 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, NH₃, S, Cr VI, Res. Cl₂ 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:

M/s. Bio-Med Pvt. Ltd., Ghaziabad; Sikar Hosiery Finisher, Delhi; Rainbow Textiles, Baghpat; Ghaziabad Polymers (Pvt.) Ltd, Ghaziabad; Bhavik Terryfab, Jaipur; Rajeev Chemicals Pvt. Ltd., Ghaziabad.

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

- (i) WRA, Mumbai
- (ii) TRADC, Bharuch
- (iii) NITRA, Ghaziabad
- (iv) SASMIRA, Mumbai
- (v) SITRA, Coimbatore
- (vi) BTRA, Mumbai
- (vii) MANTRA, Surat

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 undergraduates 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 2017-18, 2 full time programs were offered in various disciplines. A total of 63 students were trained in these programs. Details are given below.

Sl. No.	Program Title	Min. Qualification	Duration	No. of students trained
1	Apparel Manufacturing and Merchandising (AMM)	Graduation/ Diploma	12 months	32
2	Apparel Design & Quality Control (ADQC)	12 th Pass	12 months	31

Placements:

NITRA has a very successful placement track record with almost 100% students getting jobs in garment/home textiles export/buying houses every year. For the batch of 2017-18, following garment/home textiles units have 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	Radiant Exports, Noida
2	CTA Apparels, Noida	12	Reliance Industries, Delhi
3	International Sourcing Inc.	13	RMX Joss, Noida
4	MI Fabrics, Delhi	14	Sai Creations, Noida
5	Opera Exports, Noida	15	Shahi Exports, Noida
6	Orient Fashions, Noida	16	Sidhaa Corp, Noida
7	Orient Fashions, Gurgaon	17	Tandi, Noida
8	Oriole Sourcing, Delhi	18	TCNS, Noida
9	Paramount Products, Noida	19	United Exim, Noida
10	Pearl Apparels, Gurgaon		

Five 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 2017-18, 3 distance learning programs were offered in various disciplines. Details of the programs offered are given below.

S.No	Name of the Program	Duration
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

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 2017-18, 2 training programs were offered in following areas:

- 1 Textile Testing
- 2 Apparel Design and Merchandising

A total of 57 students were trained in the above mentioned programs. The students came from Government Polytechnic, Varanasi; Vidya Institute of Fashion Technology, Meerut and KCMT, Bareilly.

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 2017-18 - (i) Sampling Tailor (ii) Quality Assessor (iii) Fashion Designer. Total of 210 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 third batch of B.Tech. students of NITRA Technical Campus has made a record. Till 31st March 2018, 37 students of Textile Technology & Textile Chemistry branch and 16 students of Computer Science & Engg. have been placed in renowned companies like Vardhman Textiles, Winsome Yarns, Sara Textiles, RSWM Ltd., Nahar Industrial Enterprises Ltd., Shiva Texyarn Ltd., Mahima Pure-Spun, Ginni Filaments Ltd., Chelsea Mills LLP, Laxmi Fabdye Printing Pvt. Ltd., Technokriti Solutions, Optimal Transnational India Pvt. Ltd., Times Group Company, Infotech Software, Next Step Services Pvt. Ltd., Cyber Cure Technologies Pvt. Ltd., Tata Consultancy Services Ltd., Luminoguru Pvt. Ltd. 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	9187
Journals (For list of journals refer Annex-11&12)	31
Project reports	250
Thesis (MSc/PhD, B.Tech - CSE/TT)	82
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 two Booklets were revised and printed during the year:

1. Quality Assurance in Apparel Manufacturing - 3rd edition
2. Aramid Threads - 2nd edition

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

- High Performance Apparel : Material De..... Ed. by John MC Laughlin and Tasneem Sabir
- Thermal Protective Clothing for Fire Fighter by Guowen Song, Sumit Mandal
- Antimicrobial Textiles, Ed. by Gang Sun
- Performance of Protective Textiles (STP 1237), Ed. by James S Johnson
- Performance of Protective Textiles (STP 900), Ed. by Barker/ Coletta
- Performance of Protective Textiles (STP 1462), Ed. by Partia Yarborough
- Data Compression by Amrita Jyoti
- Fundamentals of Software Engineering by Rajib Mall
- Introduction to Data Compression by Khalid Sayood
- Managing Quality in Apparel Industry by Pradeep V Mehta and Satish K Bhardwaj
- Data structure with C by Seymour Lipschutz
- Environmental Studies : Simplified, 3rd ed. by Benny Joseph
- Apparel Merchandising by S S Satsangi
- Industrial Engineering : Guide to job interview
- Hand book of life cycle assessment (LCA) of textile & clothing, edited by S S Muthu.
- Environmental aspect of textile dyeing, edited by R M Christie
- Woven terry fabrics : manufacturing and quality management by J P Singh and S Verma
- Surface modification of textiles, edited by Q Wei
- Textile advances in the automotive industry, edited by R Shishoo
- Textiles for cold weather apparel, edited by J J Williams
- Multidisciplinary know-how for smart textiles developers, edited by Tunde Kirstein
- Pollution control in textile Industry by S C Bhatia

IMPORTANT EVENTS AND HAPPENINGS DURING 2017-18

NITRA Signs MoU with University of Huddersfield, United Kingdom

NITRA has one more feather in its cap by signing an MoU with the University of Huddersfield, West Yorkshire, United Kingdom on 21st March 2018 with the aim to foster collaboration. The very purpose of the MoU is to establish an academic link between both institutions for mutual benefit and in a spirit of friendship and co-operation. Areas of cooperation inked in MoU are:

- a. Exploration of collaborative research projects
- b. Exchange of teaching and research staff
- c. Organization of joint academic activities such as seminars, lectures and conferences
- d. Exchange of academic materials and other information of common interest
- e. Progression and exchange of students

In order to promote the collaboration, it has been decided that both institutions will have regular communications and meetings.

Grid-connected Roof-top Solar Power Plant at NITRA Becomes Operational

In order to embrace and promote 'Green Power', the 100 KWp proposed Grid-connected Roof-top Solar Power Plant at NITRA, Ghaziabad, has become operational since 24.05.2017. The plant is estimated to be fulfilling about 60%-70% of NITRA's total power consumption in first phase.

Till 31st March 2018, total 89,838 KWh power has been generated which resulted in saving of 80854.20 Kg of CO₂ emission. This effort, in turn, has resulted in reduction of pollution which is quite prevalent in NCR and helping NITRA comply with its social responsibility.

Program on "Internal Auditing of ISO 9001:2015"

A program on "Internal Auditing of ISO 9001:2015" was organized at NITRA, Ghaziabad on March 10-11, 2018 for its NITRA & NITRA Technical Campus Staff. Shri Sanjay Kaushik, Director, QMS Certification Services Pvt. Ltd., Bengaluru conducted the program. Apart from internal audit methodology, techniques, planning and other mandatory requirements, he also explained "Risk Assessment, Mitigation & Opportunities, Internal & External issues and Needs & Expectation of the Organization" in detail. It was full of workshop exercises and case studies. Staff of NITRA and NITRA Technical Campus enjoyed the program and interacted with the faculty.

An Awareness Program on ISO/IEC 17025:2017 (NABL) and Sources of Error & Uncertainty in Measurement

Shri Vikram Parashar, Director, Parashar Micro Measurements Pvt. Ltd, Noida, conducted an Awareness Program on ISO/IEC 17025:2017 (NABL) and Sources of Error & Uncertainty in Measurement for the NITRA laboratory personnel on Feb 23, 2018 at NITRA Ghaziabad. Program was very much appreciated by the participants.

Prestigious Merit-cum-Means Scholarship for NITRA Technical Campus (NTC) Students

It is a matter of great pride that following two of NITRA Technical Campus (NTC) students have been awarded prestigious Merit-cum-Means scholarships (Certificates and Rs. 25,000/-) by the Textile Association (India) Delhi with the support of different industrial groups and individual professionals on February 18, 2018 in the event organized at The Garden Restaurant, New Delhi. In this context, it is worth mentioning that NITRA Technical Campus (NTC) students have won these scholarships on the previous occasions also due to their cognizable academic performance.

- Mr. Devendra Pratap Singh (Branch: Textile Chemistry, 2nd year)
- Ms. Poornima Singh (Branch: Textile Technology, 2nd year)

ISO 9001:2015 Transition Training Course with Specific Reference to Risk Assessment, Mitigation, Impact Assessment and Opportunities

"ISO 9001:2015 Transition Training Course with specific reference to "Risk Assessment, Mitigation, Impact Assessment and Opportunities" was conducted by Shri Mohd. Sajid Ansari, Director, Global Overseas, at NITRA Ghaziabad on February 13, 2018. Staff of NITRA and NITRA Technical Campus attended the program and had intensive interactions with the faculty.

NITRA Technical Campus students attain top ranks in AKTU

It is a matter of great delight that the top three positions in the textile category are held by NITRA Technical Campus students in the recently conducted B.Tech final examination conducted by AKTU, Lucknow. This outstanding performance shows the excellent quality of teaching in NITRA Technical Campus as the college has achieved the great feat again with its second pass-out batch. The college management and its faculty members congratulate these students for making the institute proud.

NITRA organizes Research Advisory Committee Meeting

Research Advisory Committee (RAC) Meeting was held at NITRA on December 29, 2017. Meeting was chaired by Sh. Dinesh Nolkha, Chairman RAC & MD, Nitin Spinners Pvt. Ltd. Dr. Arindam Basu, Director General welcomed the RAC Chairman, members and special invitees in the meeting and expressed thankfulness for their kind presence. He explained that NITRA has completed two projects and currently working on seven on-going projects. NITRA has also proposed three projects to Government agencies. NITRA Scientists made presentations (also live demonstrations of some of the projects) these projects. Total 19 RAC Members & special invitees (from 12 industries and academia) had an intensive interactions and gave fruitful suggestions on the research activities carried out by NITRA. Sh. Abhijit Pal, Officiating Director, NITRA offered the vote of thanks.

Delegates from Bangladesh visit NITRA

Delegates from Bangladesh (Senior Govt. officials of Ministry of Bangladesh) visited NITRA, Ghaziabad on November 24, 2017. The team consisted of Mr. Jalal Ahmed, Additional Secretary, Mr. A.R.M. Nazmus Sakib, Additional Secretary, Dr. Dilip Kumar Sharma, Director General, Additional Secretary, BITAC, Ministry of Industries, Mr. Md. Mostafizur Rahman, Chairman, Bangladesh Technical Education Board, Ministry of Education, Ms. Sheikh Momena Moni, Deputy Secretary, Mr. Syed Nasir Ershad, Asstt. Executive Project Director, (Deputy Secretary), SEIP Project, Mr. Newaz Hossain

Chowdhury, PS to the Hon'ble State Minister, Ministry of Finance and Ministry of Planning, Ms. Ismat Mahmuda, Director (GIU), Prime Minister's Office, Ms. Dilruba Shaheena, Asstt. Executive Project Director, (Deputy Chief), SEIP Project, Finance Division, Ministry of Finance.

Dr. Arindam Basu, DG NITRA warmly welcomed them and made the presentation on latest developments in textiles. Team also visited the facilities of NITRA particularly the pilot plants of spinning, weaving and technical textile laboratories. They had extensive discussions over the developments that NITRA has done in the field of protective textiles. They had discussions over the training and skill developments programs run by NITRA including 4 year B. Tech courses in textiles and computer science.

Dr. Arindam Basu, DG and Mr. A.K. Pandey, PSO, NITRA visit China

Dr. Arindam Basu, DG and Sh. A.K. Pandey, PSO NITRA visited Zhejiang Golden Eagle Co. Ltd., China for inspection & selection of Flax Processing Machineries from Nov. 19 to 22, 2017.

NITRA Technical Campus organizes Techno-Science Quiz 2017 & Sports meet 2017

The 4th Techno-Science Quiz Contest was organized by NITRA Technical Campus (NTC) on 19th November 2017 for 12th Standard science-stream students from various reputed schools situated in and around Ghaziabad. Raj Kumar from Bhagirath Public School emerged the winner of the contest. Divya Veerbhan from Columbia Convent Institute and Hritvik Jain from KDB Public School secured the 2nd and 3rd positions respectively. All the winners were rewarded with cash prize and certificate. In addition to event-toppers, the certificate was awarded to all participating students in order to acknowledge and encourage the young scientific minds.

NITRA Technical Campus (NTC) organized its 3-day intra-college annual Sports Meet 2017 during 10-12 October, 2017 at NTC Campus, Ghaziabad. NTC has always believed in developing its students' physical and mental health viz-a-viz their academic development with a holistic view. Since sporting activities are integral part of health development and thereby having a direct bearing with the mental development of its students, this event is organized annually. Six categories of sporting events such as cricket, volleyball, badminton, football, table tennis and chess are included in this year's sports meet. About 300 students from various branches have participated. Dr. Arindam Basu, DG, Sh. Abhijit Pal, Officiating Director, Dr. M. S. Parmar, Jt. Director (A), Dr. B. K. Sharma, HoD-CSE and Sh. Neeraj Agarwal, Sr. Faculty distributed the prizes in the closing ceremony on 12th Oct.'17.

Prof. R. Chattopadhyaya and Prof. V.K. Kothari of IIT, Delhi deliver lectures for NITRA Technical Campus students

Prof. R. Chattopadhyaya and Prof. V.K. Kothari of IIT, Delhi delivered lectures on "Rotor Spinning Technology" and "World of Non-wovens" respectively to the third & final year students of B. Tech - Textile Technology branch and final year students of B.Tech. Textile Chemistry branch on November 2, 2017 at NITRA Technical Campus. Prof. Chattopadhyaya deliberated about the types of rotors, advancement in rotor technology and benefits of rotors spinning system. Prof. V.K. Kothari explained about various types of non-wovens and their application. Students showed active participation and got their doubts cleared.

Chairman NITRA Graces 14th Convocation

NITRA's 14th Convocation Ceremony was held on Monday, 18th September' 2017 at NITRA, Ghaziabad in presence of Sh. Sanjay Kumar Jain, Chairman, NITRA and Managing Director, TT Ltd. Also present were Dr. Arindam Basu, Director General NITRA, Sh. Abhijit Pal, Officiating Director, and other faculty members. A total of 150 students were awarded certificates and medals in the convocation.

Chairman, NITRA inaugurates Electronic Drape Meter and Fabric Smoothness Tester, developed by NITRA

Conducting need based R&D for textile industry is NITRA's major activity since its inception. As a result of that, in the sidelines of NITRA's 14th Convocation Ceremony held on Monday, 18th Sept.'17 at NITRA, Ghaziabad, Sh. Sanjay Kumar Jain, Chairman, NITRA Council of Administration and Managing Director, TT Ltd. inaugurated two very useful instruments Electronic Drape Meter based on Image Analysis Technique and Smoothness Tester for Textile Sheetting Materials. Both the equipment is developed by the team of NITRA scientists following a very long and incisive research work. Dr. Arindam Basu, Director General and Dr. M. S. Parmar, Jt. Director (A) were the Principal Investigators for Electronic Drape Meter and Smoothness Tester equipment, respectively. It is expected that the textile industry will make good use of these unique equipment. Following is a brief glance at the equipment:

Workshops on Best Practices in Indian Garment Industry in Ludhiana & Delhi

NITRA organized two workshops on "Best Practices in Indian Garment Industry" at Ludhiana and PHD Chambers of Commerce and Industry, New Delhi on June 23, 2017 and July 25, 2017 respectively. The purpose of these workshops was to disseminate information collected in the MoT sponsored project "Study to Enhance Indian Apparel Exports" and help the industry professionals to implement some to the best practices in their units and improve performance of their manufacturing processes. These workshops were attended by 75 senior management executives from 30 garment units. Under the project, NITRA conducted studies in 50 garment manufacturing units in major clusters like NCR, Tirupur, Bengaluru and Ludhiana between the period Jan. 2016 and March 2017. Besides collecting data related to productivity, quality and manpower, NITRA collected some of the best work practices followed by the units.

NITRA Observes 3rd International Yoga Day

United Nations General Assembly has declared 21st of June as International Yoga Day. Yoga is ceremoniously practiced all across 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 3rd International Yoga Day at its campus in Ghaziabad. Enthusiastic staff members of both NITRA and its academic wing NITRA Technical Campus have taken part in this morning yoga-session. Live demonstrations of various Mudra, Asanaa and Pranama were presented by experts that the staff members followed. Speeches on benefits of practicing regular yoga to keep fit were also delivered.

NITRA Technical Campus Students participate in Smart India Hackathon 2018

In order to promote digital literacy in India and to facilitate and bring governance in every citizen's reach the Ministry of Human Resource Development (MHRD), All India Council for Technical Education (AICTE), Inter Institutional Inclusive Innovation Center (i4C) and

Persistent Systems organized the second edition of Smart India Hackathon during 30th-31st March'18 at various centers across the country. A total number of 18 students from NITRA Technical Campus participated in the Software Edition of the event.

DM Ghaziabad, Ms. Ministi S, IAS Visits NITRA

DM Ghaziabad, Ms. Ministi S, IAS Visits NITRA visited NITRA on June 1, 2017 in connection to following training programs running under state skill policy, UPSDM:

- Sampling tailor (ST)
- Quality Assessor (QA)
- Fashion Designing (FD)

She was excited and happy to see the progress of the project and its implementation at NITRA, Ghaziabad.

Teachers Day Celebrated by NITRA & NITRA Technical Campus students

The students of NITRA Technical Campus celebrated the Teachers Day on 5th September 2017 to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan - a great teacher, the first vice-president and the second president of India, after whose name the day has been named. The décor of the venue, NTC Seminar Hall, was set beautifully in resonance with the Gurukul Parampara. Two other Teachers' Day celebrations also took place on the same day by the students of NITRA's short term programs and the students of UPSDM. In addition to the cultural programs presented by students, different fun-games were arranged for teachers. The teachers also participated in all the programs with great enthusiasm.

Parichaya – The Fresher's Party 2017 organized for freshers of 2017-18

Parichaya 2017, the annual fresher's party of NITRA Technical Campus (NTC) was held on 12th September, 2017 at NTC Campus, NITRA, Ghaziabad. Emoji of facial expressions was chosen as the theme for this event. The function was celebrated with great fun, fiesta and frolic as the band of enthusiastic students participated in large numbers. The fresher's meet opened with the first year students presenting performing arts such as instrumental like table and synthesizer along with solo & group song, solo & group dance, and satirical skits. They also competed through several rounds for the coveted Mr. and Ms. Fresher title. The program ended with a colorful 'Fashion Show' and distributing 'welcome gift' to the newly admitted 1st year students.

NITRA Technical Campus (NTC) Celebrates 71st Independence Day

NITRA Technical Campus celebrated the 71st year of independence on 15th August 2017. The program started with ceremonial national flag hoisting by Director NTC Dr. Arindam Basu. Later, national anthem was sung by the students of the institute and the faculty members including Sh. Abhijit Pal, Officiating Director and Joint Director Academics Dr. M.S.Parmar. Sweets were distributed at the end of the ceremony.

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 2017-2018:

1. Liaison visits/survey carried out (no. of units covered)	-	3377
2. Technical assistance/consultations provided	-	209
3. Designs developed	-	119
4. Samples tested	-	2386
5. No. of persons trained	-	770
6. Exhibitions/seminars conducted	-	166

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	80	59	1225	428	578	2370

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	Panipat	Bhilwara	Ludhiana	TOTAL
No. of Designs developed	16	0	83	0	99

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 2017-18 a total of 16,095 powerloom workers were insured through NITRA Power loom Service Centres.



At the 41st AGM of NITRA: (L-R) Dr. Arindam Basu, Director General, Sh. Sanjay Kumar Jain, Chairman and Sh. S. K. Kapoor, Dy. Chairman



One of the pass-out students receives certificate from Sh. S.K Jain, Chairman at NITRA's 14th Convocation Ceremony while Dr. Arindam Basu, Director General looks on



Sh. S.K Jain, Chairman, NITRA inaugurates Fabric Smoothness Tester developed by NITRA scientists during an event organized at NITRA. Also seen is Dr. M. S. Parmar, Jt. Director (A) & Head - CQE & PTTD



Sh. S.K Jain, Chairman, NITRA, in presence of Dr. Arindam Basu, Director General inaugurates the unique Electronic Drape Meter instrument developed by NITRA scientists



Sharing dias at NITRA Research Advisory Committee Meet: (L-R) Dr. Arindam Basu, Director General, Sh. Dinesh Nolkha, Vice Chairman, Sh. Abhijit Pal, Officiating Director and Dr. M. S. Parmar, Jt. Director (A) & Head – CQE & PTTD



A view of the audience present at NITRA Research Advisory Committee Meet



Dr. M. S. Parmar, Jt. Director (A) & Head – CQE & PTTD explains a point to the visiting team of Indian Technical Textile Association (ITTA) at NITRA's PTTD Lab. Also seen is Dr. Arindam Basu, Director General (2nd from right).



Delegates from ITTA and senior NITRA officials exchange views during the Interactive Meet on Protech at NITRA

ANNEXES

MEMBERS OF THE COUNCIL OF ADMINISTRATION 2017-2018

- | | | |
|----|---------------------------------------|---|
| 1. | Shri Sanjay Kumar Jain
(Chairman) | Managing Director
T.T. Ltd.
879 Master Prithvi Nath Marg
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| 2. | Shri S.K. Kapoor
(Dy.Chairman) | Managing Director
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Village Chhapraulla,
Distt. Ghaziabad - 201 001 |
| 3. | Shri Dinesh Nolkha
(Vice Chairman) | Managing Director
Nitin Spinners Ltd.
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Bhilwara - 311 001 (Raj.) |
| 4. | Shri Ramesh Kumar Jain | Chairman-cum-MD
Pasupati Spg & Wvg Mills Ltd.
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Nehru Place, Mathura Road
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New Delhi - 110 065. |
| 5. | Shri Riju Jhunjunwala | Joint Managing Director
Rajasthan Spg. & Wvg. Mills Ltd.
Bhilwara Towers
A-12, Sector 1, Noida - 201 301 |
| 6. | Shri R.L. Nolkha | Chairman
Nitin Spinners Ltd.
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Bhilwara (Rajasthan) |
| 7. | Shri S.S. Maheshwari | Executive President
Sutlej Textiles & Industries Ltd.
(Unit: Rajasthan Textile Mills)
Pachpahar Road
Bhawanimandi - 326 502 (Raj.) |
| 8. | Shri Rajeev Jain | Business Head-Operations
(Yarn Business)
RSWM Limited
Village – Kharigram
Gulabpura – 311 021 (Bhilwara). |

- | | | |
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| 9. | Shri G. Balasubramanian | Secretary General
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| 10. | Shri Sanjay Batra | Head-Sales North India
Rieter India Pvt. Ltd.
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Chandigarh – 160 022 |
| 11. | Shri V K A K Pandey | AGM, Voltas Limited
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| 12. | Dr. Anil Gupta | Director Finance
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| 13. | Shri Vivek Plawat | Executive Director (Marketing)
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Fin. Advisor | Ministry of Textiles, Govt. of India
Udyog Bhawan
New Delhi – 110 011 |
| 16. | Joint Secretary (Cotton) | Ministry of Textiles, Govt. of India
Udyog Bhawan
New Delhi – 110 011 |
| 17. | Joint Secretary (R&D) | Ministry of Textiles, Govt. of India
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Ahmedabad Textile Industry's Research
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P.O. Ambawati Vistar
Ahmedabad – 380 015 (Gujarat)
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LNJ Bhilwara Group
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MEMBERS OF THE FINANCE & ADMINISTRATIVE SUB-COMMITTEE 2017-2018

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| 1. | Shri S.K. Kapoor
(Chairman - FAC) | Managing Director
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| 2. | Shri Sanjay Kumar Jain | Managing Director
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| 3. | Shri Ramesh Kumar Jain | Chairman-cum-MD
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| 4. | Shri Dinesh Nolkha | Managing Director
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| 6. | Shri Shishir Jaipuria | Managing Director
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17. Dr. Ashwini Kumar Agrawal
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18. Dr. Abhijit Majumdar Associate Professor
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19. Lt. Commander Arun Samal Dy. Director (S&D) for Principal Director
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26. Shri Gautam Nair
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27. Dr. Harish Bisht
Director
ATIRA
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28. Shri H.R. Sharma
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30. Shri Jagvart Singh
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55. Shri S.P. Oswal
Chairman cum Managing Director
Vardhman Spinning Mills
208, Surya Kiran Bldg.
Kasturba Gandhi Marg
New Delhi
56. Shri S.S. Sajal
President
Banswara Syntex Ltd.
Indl. Area, Dohad Road
Banswara – 327 001 (Raj.)
57. Shri S.M. Dwivedi
Managing Director
Sara Textiles Ltd.
Sara House, B-8, Sector-4
Noida
Distt. G.B. Nagar
58. 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. Prema 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

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

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.

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	-	19	Uttar Pradesh	-	35
Himachal Pradesh	-	04	West Bengal	-	01
Jammu & Kashmir	-	02	Overseas :		
Karnataka	-	01	Nepal	-	02
Madhya Pradesh	-	04	Thailand	-	01
Maharashtra	-	02			

Total No. of Member Units - 125

STAFF MEMBERS
(As on 31.03.2018)

NAME	DESIGNATION	QUALIFICATION
Dr. Arindam Basu	Director General	B.Sc. Tech. (Text. Tech.), M.Text., Ph.D., PGDBIM, FIE, FSAB, FTA
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. 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.
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)

NAME	DESIGNATION	QUALIFICATION
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	M.Tech. (Textile Engg. & Mgt.), B.Tech. (Textile Chemistry)
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. Atul Kumar Sharma	S.T.A.	B.Sc.
Mrs. Anjula Sharma	Data Processor	B. Com (P)
Mr. Yogesh Kumar	Sr. Investigator	M.Sc. (Chem.), ATA
Mr. Prakash	Sr. Investigator	B.Sc., ITI
Mr. Harendra Singh	Sr. Investigator	M.Sc. (Chem.)
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., M.Tech., Dip. in Mgmt., Dip. In TQM & ISO 9000, Dip. in Prodn. Mgmt., MIE
Mechanical Processing Division (Wvg.):		
Mr. A.K. Pandey*	P.S.O. Head of Department	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.)

NAME	DESIGNATION	QUALIFICATION
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	P.S.O	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
Engineering Division:		
Mr. Vikas Sharma	P.S.O. Head of Department	B.E.(Mech.), Adv. Dip. in MM & CM, BEE Cert. Energy Auditor
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
Mrs. Elizabeth John	Stenographer-I	B.A.
Mr. Ashwani Kumar Sharma	Data Processor	MBA, B.A., Dip. in Comp. in Office Management

NAME	DESIGNATION	QUALIFICATION
Mr. N. Govindaraj*	Data Processor	SSLC
Mr. S.A.A. Rizvi	Sr. Supervisor (Accounts)	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	Accts. Asstt.	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:		
Mrs. Usha Rajan	Stenographer-I	SSLC, KGTE Typewriting (English)
Customer Service Promotion Cell:		
Mr. A.K.Singh	Asstt. Director Head of Department	B.Text (Tech.)
Mr. Partha Basu	Public Relations Officer	B. Com, PGD in Advtg. & Mktg. Mgmt.
UPSDM Project:		
Mr. Umesh Joshi*	Project Officer	B.Tech. (Mech. Engg.)
Mr. Himanshu Kaushik*	Project Officer	BBA

NAME	DESIGNATION	QUALIFICATION
NITRA Technical Campus:		
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)

SUPPORTING STAFF (TECHNICAL)

Physics & Quality Evaluation Division

Jr. Investigator:

Mr. G.C. Bajpai

Peon:

Mr. Ranveer Singh

Laboratory Assistant:

Ms. Shradha Srivastava *

Ms. Supriya Singh*

Mr. Kamalraj*

Ms. Shalini Singh*

Trainee:

Mr. Ravendra Kumar*

Engineering Division

Sr. Electrician:

Mr. Vikram Singh*

Electrician:

Mr. Sandeep Sharma*

Mr. Sachin Kumar*

Polymer & Technical Textile Division

Lab Attendant:

Mr. Om Pal Singh

Lab Assistant:

Mr. Mohit Pandey*

Mr. Saurabh Dhar*

Environmental Engineering Division

Jr. Investigator:

Mr. D. Chakraborty*

Research & Development (Products) Division and Chemical & Quality Evaluation Division

Jr. Investigator:
Mr. Dushyant Kumar
Mr. Devendra Singh
Mr. Umesh Pathak

Laboratory Instructor:
Mr. Sumit Kumar*

Lab Attendant:
Mr. Sandeep Kumar*

Garment Centre:

Trainer Apparel Manufacturing:
Mr. Asif Ali

UPSDM Project:
Sewing Machine Operator Trainer:
Mr. Riyasat Ali*
Mrs. Seema Raghav*

Master Trainer Core Skill:
Mr. Sushant Saurabh*

Portal Assistant:
Mr. Yuvraj Singh*

Mechanical Processing Division (Wvg.)

Weaver Helper:
Mr. V. Ramesh

NITRA Technical Campus:

Laboratory Instructor:
Mr. Madan Gopal Pal*
Mr. Mahendra Sagar*
Mr. Rohitash Singh*

Laboratory Assistant:
Mr. Dharmendra Kumar*
Mr. Anuj Chaudhary*
Mr. Shubham Awasthi*
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*
Mr. Dushyant Pandit* *Caretaker Girls' Hostel:* Mrs. Kala Naidu* *Caretaker Boys' Hostel cum Supervisor:* Mr. Yogesh Kumar Tiwari*

SENIOR OFFICERS AT POWER LOOM SERVICE CENTRES / TESTING LABORATORIES

NAME	STATUS	QUALIFICATION	DIVISION
Mr.Kushagra Prakash*	Resident Manager	M.F. Tech., B.Text. (Text.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. V.S. Kushwaha	Resident Manager	Dip. in Text. Tech.	PLSC, Ludhiana
Mr. S. Ansari	Resident Manager	Dip. in Hand. Tech.	PLSC, Tanda
Mr. R.P. Tyagi	Incharge	ITI	PLSC, Panipat
Dr. A.V. Agrawal	Deputy Director & Incharge	M.Text. (Text. Tech.), Ph.D., FIE, FIV	PLSC, Varanasi

*On contract.

RESIGNATIONS, RETIREMENTS AND TERMINATION DURING THE PERIOD APRIL 2017 TO MARCH 2018

S.No.	NAME	DIVISION	DESIGNATION
A) Resignations:			
1.	Mr. Punit*	UPSDM Project	Project Officer
2.	Mr. Rahul Kumar Guglani*	CQE & R&D(P)	SSO
3.	Mr. Ashish Yadav*	PQE	Trainee
4.	Mr. Paurush Godhar	Engineering	JSO
5.	Ms. Vasundhara Verma *	CQE & R&D(P)	Research Asstt.
6.	Mr. Alakiri Vivek *	Admn./Accts.	Admn./Accts. Asstt.
7.	Mr. Jaya Krishna Rath*	PQE	Laboratory Asstt.
8.	Mrs. Richa Singh*	NTC	Asstt. Prof. (CSE)
9.	Mr. Saurabh Kumar Rajput	NTC	Asstt. Prof. (Electrical & Electronics) (on probation)
B) Retirements:			
1.	Mr. A.K. Pandey	MPD (wvg.)	PSO
2.	Mr. Raj Kumar Saini	Engineering	Asstt. Engineer (Electrical)
3.	Mr. D. Chakraborty	Env. Enggg.	Jr. Investigator
4.	Mr. N. Govindaraj	Administration	Data Processor
C) Termination:			
1.	Mr. Shiv*	UPSDM Project	Project Officer

*On contract.

RESEARCH PAPERS PUBLISHED AND PRESENTED

S.No.	Title	Author(s)	Publication/Place	Date
1.	A survey on occupational hazards among cement workers to develop suitable work wear	Shweta Saxena, M.S. Parmar, Durgesh Raj Maurya and Sangita Saini	National Conference on Fashion, Apparel & Textile, Amity University, Noida	March 27, 2018
2.	Effect of wool percentage and thickness on thermal property of blanket	Neha Kapil & M.S. Parmar	National Seminar on Trends and Advances in Wool and speciality hair, organized by G.B. Pant University of Agriculture & Technology, Pant Nagar	March 16 & 17, 2018
3.	Review of communication strategy for sensitizing towards occupational hazards in cement and construction industry	Shweta Saxena & M.S. Parmar	International Conference, Delhi Metropolitan Education, Noida	March 10, 2018
4.	How Cloud Computing its going to change the future of ERP System	Shubham Awasthi, A.P. Srivastava & Sumit Sharma	5 th National Conference on Information Technology for Business Transformation (ITBT-2018) organized by Ajay Kumar Garg Engineering College, Ghaziabad	March 9-10, 2018
5.	Methods of practice research for developing prototype fashion products & Process: Development of smoothness Tester	M.S. Parmar	National Workshop on Exploring Research Methods & Statistical Techniques in applied Fashion & Lifestyle Technology,	March 6-7, 2018

S.No.	Title	Author(s)	Publication/Place	Date
			Organised by University Institute of Fashion Technology & Vocational Development, Punjab University, Chandigarh	
6.	Solar energy in Indian textile and apparel industry	Arindam Basu	Asian Textile Journal	Feb 2018
7.	Technological innovations in textile technology in view of global challenges	Arindam Basu	Textile Times	Feb 2018
8.	Development of smart textiles for medical protective textiles	A. Basu, Saurabh Jain and V. Khoiwal	Functional Textiles and Clothing conference, IIT, Delhi	Feb 9-12, 2018
9.	Development of cement workers work-wear to prevent occupational hazard	Shweta Saxena, M.S. Parmar, Vasundhara Verma, Durgesh Raj Maurya, Sangita Saini, Narendar Thapa and Satypriya Dash	Functional Textiles and Clothing Conference, IIT Delhi	Feb 9-12, 2018
10.	Development of smoothness tester for testing smoothness behavior of fabric	M.S. Parmar, Nidhi Sisodia and Maheshwar Singh	Functional Textiles and Clothing Conference, IIT Delhi	Feb 9-12, 2018
11.	Smart clothing for security personnel	V. Khoiwal, A. Basu and S. Jain	R&D Conclave, Tiruppur, Tamil Nadu	Feb 9- 10, 2018
12.	Development of innovative instrument to test smoothness behavior of fabric	M.S. Parmar, Nidhi Sisodia and Maheshwar Singh	Paper presentation at 15 th International & 73 rd All India Textile Conference, Nagpur	Feb 2-3, 2018

S.No.	Title	Author(s)	Publication/Place	Date
13.	Factor based web page ranking algorithm	P.K. Shukla and Rajeev Mishra	International Conference on Technology and Trust, ICTT-2017, Organized by GNIOT, Gr. Noida	Dec. 2017
14.	Routing Protocols on MANETs	P.K. Shukla and Sony Kumari	International Conference on Technology and Trust, ICTT-2017, Organized by GNIOT, Gr. Noida	Dec. 2017
15.	Important requirements for anti riot body protector for police and paramilitary forces	M.S.Parmar and Neha Kapil,	Textile Value Chain, Volume 5, p 48	November 2017
16.	Standards Required on Technical Textiles for Work Place Safety	A. Basu	3rd National conclave on standards for Technical Textiles, FICCI, Ministry of Textiles & BIS	November 2-3, 2017
17.	Electro Magnetic absorption behaviour of 3D woven conductive fabrics in C-Band frequency region	DN Pandey, A. Basu and P. Kumar	International Conference on Advance Materials, Textiles and Process, Orchit Hall, Hotel Vijay International , Organized by UPTTI, Kanpur	October 14-15, 2017
18.	Innovative instrument for testing smoothness behaviour of fabric	M.S. Parmar, Nidhi Sisodia and Maheshwar Singh	International Conference on Advance Materials, Textiles and Process, Orchit Hall, Hotel Vijay International , Organized by UPTTI, Kanpur	October 14-15, 2017

S.No.	Title	Author(s)	Publication/Place	Date
19.	Analysis of Compression Behavior of Warp Knitted Spacer Fabric with Cylindrical Surface	Mrinal K. Datta, B.K. Behera and Ashavni Goyal	International Conference on Advance Materials, Textiles and Process, Orchit Hall, Hotel Vijay International, Organized by UPTTI, Kanpur	October 14-15, 2017
20.	Framing of QR, Inspection & Testing of clothing items	M.S. Parmar	Provisioning Conference cum Seminar, Directorate General, ITBP, New Delhi	September 21-22, 2017
21.	NITRA Fabric Smoothness Tester for testing surface smoothness of fabric & garment	M.S. Parmar & Nidhi Sisodia	13 th International Conference on Apparel and Home Textiles, India Habitat Centre, New Delhi	September 9, 2017
22.	Development of smoothness tester to test finished fabrics for smoothness behavior	Nidhi Sisodia	13 th International Conference on Apparel and Home Textiles, India Habitat Centre, New Delhi	September 9, 2017
23.	Eco-Fibres: Product of Agri-bio-waste recycling	Saroj Devi, Charu Gupta, M.S. Parmar & Nidhi Sisodia	IOSR Journal of Humanities and Social Science, Vol.22, Issue 9, Ver.8	September 2017
24.	Development of Kantha Embroidery Motifs to Designs: Traditional to Contemporary	Saroj Devi, Parveen Punia, Neelam Pruthi & Nidhi Sisodia	International Journal of Current Microbiology and Applied Sciences, ISSN: 2319-7706, Vol.6, No.7 (2017), pp. 4479-4488	2017
25.	Crop residue recycling for economic and environmental sustainability: The case of India	Saroj Devi, Charu Gupta, Shankar Lal Jat, M.S. Parmar	Open Agriculture, 2017, 2: 486-494	2017

S.No.	Title	Author(s)	Publication/Place	Date
26.	Importance of IT in Textile Industry for Effective Decision Making	B.K. Sharma	5 th International Conference on New Frontiers of Engineering, Science & Management, IETE Campus, New Delhi	September 17, 2017
27.	Effect of weave structure on air and water permeability	Sugandha Sahni, Rita Kant, M.S. Parmar	13 th International Conference on Apparel & Home Textiles, India Habitat Centre, New Delhi	September 9, 2017
28.	Firefighter suit: A review	M.S. Parmar	Textile Value Chain, ISSN No.2278-8972, Vol.5, Issue 8, p 23-25	August, 2017
29.	Need for eco-friendly finished textiles	Rita Kant, Charu Chopra & Nidhi Sisodia	International Journal of Applied Home Science, Vo.4(7&8), 634-644	July & August, 2017
30.	Textile dye removal using nZVI particles supported on cation exchange resin	A.A. Ansari et.al	International Journal of Chem. Tech. Research, CODEN (USA)	July, 2017
31.	Effect of various processing stages on smoothness properties of cotton fabric	Nidhi Sisodia & M.S. Parmar	Colourage, p68	July, 2017
32.	Some approaches for water conservation in Textile wet processing	M.S. Parmar	Workshop on Bench-marking industrial water use to assist policy for enhancing industrial water use efficiency in India, Organized by The Energy & Resource Institute (TERI), India Habitat Centre, New Delhi	July 25, 2017

S.No.	Title	Author(s)	Publication/Place	Date
33.	The flame-retardant performance of blending fabrics of flame retardant viscose and nylon 66 fibres with different blending ratio	Noopur Sonee, Chitra Arora, M.S. Parmar	International Journal of Engineering Research and Application, Vol.7, Issue 6, (Part-6), pp 87-91	June, 2017
34.	Commercial production of plant fibre of Himalayan foothill	Arindam Basu	Round Table Conference – Textile India 2017, Ahmedabad	June, 2017
35.	Self-extinguishable cellulose textile from Spinacia oleracea	S. Basak, Kartick K.Samanta, S. Saxena, S.K. Chatopadhyay & Parmar	Indian Journal of Fibre & Textile Research, Vol.42, pp 215-222	June, 2017

TRAINING PROGRAMS, WORKSHOPS AND SEMINARS CONDUCTED

S. No.	Nature of Program	Venue	Division	No. of batches	No. of trainees
1.	Energy Audit Training Course	IRIEEN, Nasik	Engg.	08	177
2.	Apparel Manufacturing and Merchandising	NITRA	Garment	01	32
3.	Apparel Design and Quality Control	NITRA	Garment	01	31
4.	Textile Technology and Management (DLP)	NITRA	Garment	01	29
5.	Apparel Manufacturing and Merchandising (DLP)	NITRA	Garment	01	26
6.	Quality Evaluation of Textiles and Garments(DLP)	NITRA	Garment	01	19
7.	Summer Training programs for College Students	NITRA	Garment	01	57
8.	Best Practices in Indian Garment Industry	Ludhiana	Garment	01	12
9.	Best Practices in Indian Garment Industry	Delhi	Garment	01	60
10.	Special Camp on BHIM App	NITRA	CSE/SDC	01	85
11.	A Techno-Science Quiz Contest	NITRA	CSE/SDC	01	80
12.	Seminar on Emerging Trends in IT for Effective Decision Making	Govt. Polytechnic College, Ghaziabad	CSE/SDC	01	30

CONSULTANCIES PROVIDED

S.No.	Type of Consultancy	Division	No. of Units
1.	Workload Assessment Study	MPD (Spg.)	03
2.	Machinery Maintenance Audit	MPD (Spg.)	01
3.	Energy Audit for Pumping Stations	Engg.	35
4.	Preparation of DPR to establish Common Facility Centre (CFC) for Chikankari artisans at Lucknow	MPD (Spg.)	01
5.	Third party inspection for Blankets	PQE	14
6.	Third party inspection for T-shirts	PQE	04
7.	Third party inspection of Garments	PQE	01
8.	Third Party Inspection of Fabric for Uniforms	PQE	06
9.	Third Party Inspection of Balaclava caps	PQE	02
10.	Third Party Inspection of Coat Parka	PQE	05
11.	Third Party Inspection of Angola Shirting	PQE	03
12.	Third Party Inspection of Gabardine	PQE	04
13.	Third Party Inspection of Woolen socks	PQE	03
14.	Third Party Inspection of Beret caps	PQE	01
15.	Third Party Inspection of Jersey	PQE	01
16.	Third Party Inspection of Thermal vest	PQE	01
17.	Third Party Inspection of Shorts	PQE	01
18.	Third Party Verification of Khadi Marks	PQE	09
19.	Maintenance health audit of old speed frames	MPD (Spg.)	04
20.	Valuation of Assets for Textile unit	MPD (Spg.)	01
21.	Scientific and systematic collection of samples for quality checking	PQE	08
22.	Manpower rationalization for Garment unit	Garment Centre	01
23.	Assessment of ISDS Trainees of Sewing Machine Operator	Garment Centre	09
24.	Assessment of ISDS Trainees of Sewing Machine Operator	MPD (Wvg.)	07
25.	Assessment of Existing ETP	Environment	01

Contd...

International Consultancy:

S.No.	Type of Consultancy	Name of Company	Division	No. of Units
1.	Energy Audit Study	M/s. PT Lotus Indah Textile Industry, Surabaya, Indonesia	Engg.	01
2.	Workload Assessment Study	M/s. Indo Liberty Textiles, Karawang, Indonesia	MPD (Spg.)	01
3.	Workload Assessment Study	M/s. Indophil Texties, Philippines	MPD (Spg.)	01
4.	Energy Audit	M/s. P.N. Composite, Bangladesh	Engg.	01

STAFF PARTICIPATION IN HRD PROGRAMS

Sl. No.	Details of the program	Venue	Date	Participants status
1.	Smart India Hackathon 2018 Organized by AICTE, Govt. of India	Guru Nanak Institute of Technology kolkata	30 th -31 st March 2018	Mr. KK Dewan (As Mentor)
2.	Smart India Hackathon 2018 Organized by AICTE, Govt. of India	C. V. Raman College of Engineering, Bhubaneswar	30 th -31 st March 2018	A.P. Srivastava (As Mentor)
3.	Smart India Hackathon 2018 Organized by AICTE, Govt. of India	Oriental University, Indore	30 th -31 st March 2018	Saurabh Jain (As Mentor)
4.	Role of Technology in Bridging the Gap Between Academia and Industry	Sunder Deep Engg. College and CSI Ghaziabad	17 th February 2018	Dr. B.K. Sharma Mr. A.P. Srivastava (As delegates)
5.	Faculty Development Program on Universal Human Values & Professional Ethics, organized by TEQIP-III and conducted by Value Education Cell, AKTU, Lucknow	IPEC, Ghaziabad	9 th -16 th Jan.2018	Dr. Meghna Tyagi, Mr. R.C. Yadaw & Mr. Partha Basu
6.	7 th International Conference on Cloud Computing, Data Science and Engineering, CONFLUENCE-2017	Amity University, Noida,	12 th January 2018	Dr. B.K. Sharma (As Session Chair)
7.	Department Research Committee (DRC)	SRM University, Modinagar	19 th January 2018	Dr. B.K. Sharma (As External DRC Member)
8.	Department Research Committee (DRC)	Amity University, Noida	19 th January 2018	Dr. B.K. Sharma (As External DRC Member)

Sl. No.	Details of the program	Venue	Date	Participants status
9.	Workshop on Soft Spoken Tutorial	AKTU, Noida	19 th January, 2018	Mr. Avnish Sharma Mr. K.K. Dewan (As participants)
10.	Faculty Development Program on Higher education faculty career orientation and advancement, conducted by Center for Education Growth & Research	National Institute of Management, New Delhi	26 th -30 th Dec.2017	Mr. Shubham Awasthi
11.	Importance & Necessity of the Right Mindset	AICTE-HQ Auditorium , New Delhi	19 th December 2017	Mr. Avnish Sharma Mr. K.K. Dewan Mr. Partha Basu Mr. M.K. Dutta (As delegates)
12.	Faculty Development Program on "Android Skilling"	MIET, Meerut	15 th May to 20 th May 2017	Mr. Nitin Kumar Sharma (As participant)
13.	FDP on Computer forensics & cyber crime	GNIOT, Gr. Noida	25 April- 29 April 2017	Mr. P.K. Shukla (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

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

**PLACEMENT OF STUDENTS OF NITRA TECHNICAL CAMPUS
(As on 31.03.2018)**

Branch : Textile Technology

S.No.	Student Name	Name of Company
2016-17		
1.	Vijay Singh	Mahima Pure Spun, Indore
2.	Vipin Kumar	Mahima Pure Spun, Indore
3.	Shubham Gupta	C&R Textiles (P) Ltd., Noida
4.	Ravi Kumar Patel	Nahar Group of Companies
5.	Ashutosh Kumar	Bureau Veritas Consumer Products Pvt. Ltd.
2017-18		
6.	Ankit Chouhan	Vardhman Textiles Ltd.
7.	Mayank Jaiswal	Winsome Yarns Ltd., Chandigarh
8.	Himanshu Sharma	Sara Textiles Ltd., Noida
9.	Shalu Ranjan	Sara Textiles Ltd., Noida
10.	Sushesh Singh	Sara Textiles Ltd., Noida
11.	Pushpendra Dixit	Winsome Yarns Ltd., Chandigarh
12.	Srijan Mishra	Winsome Yarns Ltd., Chandigarh
13.	Nagendra Kumar Kushwaha	RSWM Limited, Kharigram, Distt. Bhilwara
14.	Uttam Kumar	RSWM Limited, Kharigram, Distt. Bhilwara
15.	Mayukshi Devi	Nahar Industrial Enterprises Ltd., Ludhiana
16.	Surya Pratap	Nahar Industrial Enterprises Ltd., Ludhiana
17.	Akash Verma	Nahar Industrial Enterprises Ltd., Ludhiana
18.	Kuldeep Chaudhary	Shiva Texyarn Ltd., New Delhi
19.	Shantanu Tripathi	Shiva Texyarn Ltd., New Delhi
20.	Shubham Yadav	Mahima Pure-Spun, Pithampur
21.	Udbhav Verma	Mahima Pure-Spun, Pithampur
22.	Sapna Pandey	Mahima Pure-Spun, Pithampur
23.	Pankaj Kumar Gaur	Ginni Filament Ltd., Mathura
24.	Rahul Arya	Ginni Filament Ltd., Mathura

Branch : Textile Chemistry

S.No.	Student Name	Name of Company
2016-17		
1.	Sumit Tyagi	Sutlej Textile & Industries Ltd. (Unit RTM), Bhawanimandi
2.	Ayus Gupta	Sutlej Textile & Industries Ltd. (Unit RTM), Bhawanimandi
3.	Rahul Gupta	Nahar Group of Companies, Lalru
4.	Ajay Kumar Yadav	Nahar Group of Companies, Lalru
2017-18		
5.	Harendra Kumar Ray	Vardhman Textiles Ltd., Ludhiana
6.	Khushboo Sharma	Chelsea Mills LLP, Gurgaon
7.	Nancy Saharawat	Chelsea Mills LLP, Gurgaon
8.	Sandeep Kumar	Chelsea Mills LLP, Gurgaon
9.	Ravi Kumar	Chelsea Mills LLP, Gurgaon
10.	Dilnawaz Ahmad	Vardhman Textiles Ltd., Ludhiana
11.	Vijay Kumar Singh	Sara Textiles Ltd., Noida
12.	Santulan Kumar Gangwar	Sara Textiles Ltd., Noida
13.	Mubarak Ali	Sara Textiles Ltd., Noida
14.	Ramkishor	Nahar Industrial Enterprises Ltd., Ludhiana
15.	Vivek Yadav	Nahar Industrial Enterprises Ltd., Ludhiana
16.	Ajay Singh	Laxmi Fabdye Printing Pvt. Ltd., Noida
17.	Anand Kumar	Laxmi Fabdye Printing Pvt. Ltd., Noida
18.	Aakash Sharma	Laxmi Fabdye Printing Pvt. Ltd., Noida
19.	Arjun Singh	Laxmi Fabdye Printing Pvt. Ltd., Noida
20.	Atul Yadav	Laxmi Fabdye Printing Pvt. Ltd., Noida
21.	Ashish Kumar Singh	Laxmi Fabdye Printing Pvt. Ltd., Noida
22.	Pravin Kumar Singh	Laxmi Fabdye Printing Pvt. Ltd., Noida

Branch : Computer Science & Engineering 2017-18

S.No.	Student Name	Name of Company
1.	Amit Kumar Tiwari	Technokriti Solutions , Noida
2.	Anamika Verma	Optimal Transnational India Pvt. Ltd., Noida
3.	Anjani Pratap Singh	Times Group Company, Noida
4.	Anwesh Kumar Singh	Infotech Software Solutions, Noida
5.	Arun Kumar Chechi	Infotech Software Solutions, Noida
6.	Arun Kumar Yadav	Infotech Software Solutions, Noida
7.	Ayush Kumar	Infotech Software Solutions, Noida
8.	Deepank Bhardwaj	Infotech Software Solutions, Noida
9.	Harshit Kumar	Next Step Services Pvt. Ltd., Noida
10.	Kush Bhardwaj	Cyber Cure Technologies Pvt. Ltd., Ghaziabad
11.	Manisha Singh	Experis IT Pvt. Ltd., Noida
12.	Rohit Kumar	Cyber Cure Technologies Pvt. Ltd., Ghaziabad
13.	Romit Tyagi	Cyber Cure Technologies Pvt. Ltd., Ghaziabad
14.	Shiva Gupta	Tata Consultancy Services Ltd., Bangalore
15.	Shruti Bindal	Luminoguru Pvt. Ltd., Punjab
16.	Surya Dev Singh	Times Group Company, Noida



A team of delegates from Bangladesh, while visiting NITRA, being accompanied by Dr. Arindam Basu, Director General and Sh. Abhijit Pal, Officiating Director



Prof. V. K. Kothari from IIT, Delhi delivers a lecture to the B. Tech students of NITRA Technical Campus



DG, NITRA, Dr. Arindam Basu sharing dias with other dignitaries at the 3rd National Conclave on Standards for Technical Textile, organized by Textile Commissioners Office, Ministry of Textile, New Delhi



Dr. Arindam Basu, Director General, NITRA presenting a memento in his office to Mr. Imran Eraslan, Vice Chairman, Denizli Chamber of Commerce, Turkey



Staff members of NITRA and NITRA Technical Campus observe 3rd International Yoga Day at office



Guest-in-chief Mr. P. M. S. Uppal, MD, Pee Empro Exports and President, OGTC, delivers the key-note address at the workshop on "Best Practices in Indian Garment Industry" organized by NITRA at PHDCCI, New Delhi



A view of the grid-connected Roof-top Solar Power Plant at NITRA in order to promote 'Green Power' in the industry



Dr. Arindam Basu, DG & Sh. A.K. Pandey, PSO, NITRA with an official of Zhejiang Golden Eagle Co. Ltd. during their visit to China for inspection & selection of Flax Processing Machineries

AUDITOR'S REPORT
&
BALANCE SHEET

BRAJESH AGRAWAL & ASSOCIATES
CHARTERED ACCOUNTANTS

AUDITOR'S REPORT

We have examined the Balance Sheet of M/s. Northern India Textile Research Association, as at 31st March 2018 and Income & Expenditure Account for the year ended on that date which is in agreement with the Books of Accounts maintained by the said Association. 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. In our opinion, proper books of accounts have been kept by the Association so far as appears from our examination of the books.

In our opinion and to the best of our information and according to the explanations given to us, the said accounts, subject to our separate report to the Council of Administration, give a true and fair view:

- (i) In the case of Balance Sheet the state of affairs of the above named Association as at 31st March, 2018.
- (ii) In the case of the Income & Expenditure Account, the excess of income over the expenditure for the year ended on that date.

For BRAJESH AGRAWAL & ASSOCIATES
Chartered Accountants

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

Place : Delhi

Date : 27th July 2018

NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION, GHAZIABAD

SOURCES OF FUNDS AND MANNER OF EMPLOYMENT AS AT 31ST MARCH 2018

(Amount in ₹)

Sources of Funds	SCH. No.	As at 31.3.2018	As at 31.3.2017
Capital Funds:			
i) Corpus	1	82,17,219	81,97,219
ii) Assets created out of Grants	2	45,28,32,027	43,00,71,723
Reserves & Surplus	3	39,58,661	39,40,761
Depreciation Fund	4	9,49,25,349	9,20,16,222
R & D Reserve	5	5,31,15,797	4,08,15,797
Grants pending utilization	6	1,00,33,495	2,40,43,192
Current Liabilities	7	1,55,30,594	1,68,66,758
Total :		63,86,13,142	61,59,51,672
Manner of Employment			
Fixed Assets	8	52,00,75,176	49,13,25,267
Investments against Earmarked fund.	9	4,36,00,000	4,11,42,554
Current Assets, Loans & Advances	10	7,49,37,966	8,34,83,851
Total:		63,86,13,142	61,59,51,672

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 : 27th July 2018

STATEMENT OF INCOME GENERATION AND ITS UTILISATION

FOR THE YEAR ENDING 31ST MARCH, 2018

(Amount in ₹)

INCOME GENERATION	SCH. No.	As at 31.3.2018	As at 31.3.2017
Grant-in-Aid to meet Recurring Expenditure (Non Plan)		1,10,00,000	1,50,00,000
Industry Contribution & Educational	11	7,15,03,669	7,41,26,502
Other Income	12	1,11,37,093	94,90,733
Grant-in-Aid to meet Expenditure on Projects	14	1,14,42,389	99,62,629
Grant-in-Aid to meet Expenditure at Powerloom Service Centres	15	1,34,97,000	1,32,13,000
Total :		11,85,80,151	12,17,92,864
UTILISATION			
Expenditure of Establishment	13	5,26,49,798	4,74,99,535
Expenditure on Projects	14	1,43,81,026	1,35,06,604
Expenditure on Powerloom Service Centres	15	1,55,73,830	1,52,87,788
Expenditure on General Administration	16	2,01,63,039	1,79,56,297
Transfer to Depreciation Fund		34,94,558	31,43,761
Total :		10,62,62,251	9,73,93,985
Balance available for Appropriation		1,23,17,900	2,43,98,879
Transfer to R&D Reserve		1,23,00,000	2,43,00,000
Surplus transferred to Balance Sheet		17,900	98,879

Sd/-
CHAIRMAN
Governing Council

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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 : 27th July 2018

SCHEDULE – 1

(Amount in ₹)

CAPITAL FUNDS	As at 31.3.2018	As at 31.3.2017
Capital		
Corpus		
a) Admission Fees (Members)		
Balance at the beginning	23,81,779	23,26,779
Receipts during the year	20,000	55,000
Sub Total:	24,01,779	23,81,779
b) Capital Contribution		
Balance at the beginning	34,13,530	34,13,530
Receipts during the year	-	-
Sub Total :	34,13,530	34,13,530
c) Donations		
Balance at the beginning	24,01,910	24,01,910
Receipts during the year	-	-
Sub Total :	24,01,910	24,01,910
Total :	82,17,219	81,97,219

SCHEDULE – 2

(Amount in ₹)

CAPITAL FUND - ASSETS CREATED OUT OF GRANTS RECEIVED FROM GOVERNMENT AGENCIES	Balance As on 31.3.2017	Additions / Write-off during the year	Balance As on 31.3.2018
<u>Capital Reserve: I – (Non Plan)</u>	32,76,379	-	32,76,379
Sub Total :	32,76,379	-	32,76,379
<u>Capital Reserve : II</u> (Sponsored Projects) - MOT	1,90,13,764	2,53,325	1,92,67,089
Sub Total :	1,90,13,764	2,53,325	1,92,67,089
<u>Capital Reserve : III</u> (Other Agencies) – National Jute Board DST	37,41,065	1,19,633	38,60,698
Sub Total :	37,41,065	1,19,633	38,60,698
<u>Capital Reserve : IV</u> (Power Loom Service Centres)	78,15,049	34,985	78,50,034
Sub Total :	78,15,049	34,985	78,50,034
<u>Capital Reserve : V</u> (PLSC's income)	3,16,484	1,75,271	4,91,755
Sub Total :	3,16,484	1,75,271	4,91,755
<u>Capital Reserve : VI</u> Government of Rajasthan for Bhilwara Centre	3,51,052	-	3,51,052
Sub Total :	3,51,052	-	3,51,052

CAPITAL FUND - ASSETS CREATED OUT OF GRANTS RECEIVED FROM GOVERNMENT AGENCIES	Balance As on 31.3.2017	Additions / write-off during the year	Balance As on 31.3.2018
<u>Capital Reserve : VII</u>			
Testing Lab Bhilwara, Panipat, Meerut & NITRA, Ghaziabad.	1,71,60,660	-	1,71,60,660
Sub Total :	1,71,60,660	-	1,71,60,660
<u>Capital Reserve : VIII</u>			
(CAD Centres at Bhilwara, Panipat & NITRA Ghaziabad)	72,26,565	-	72,26,565
Sub Total :	72,26,565	-	72,26,565
<u>Capital Reserve : IX</u>			
Modernisation of PLSC's	68,76,072	-	68,76,072
Sub Total :	68,76,072	-	68,76,072
<u>Capital Reserve : X - (CAD Tanda)</u>	4,13,482	-	4,13,482
Sub Total :	4,13,482	-	4,13,482
<u>Capital Reserve : XI - (COE Protech)</u>	14,96,47,678	44,65,119	15,41,12,797
Sub Total :	14,96,47,678	44,65,119	15,41,12,797
<u>Capital Reserve ; XII - (ASIDE) (U.P. Govt. & Nitra)</u>	8,43,87,200	-	8,43,87,200
<u>Capital Reserve ; XIII - (ISDS)</u>	11,88,31,627	-	11,88,31,627
<u>Capital Reserve ; XIV - FIC (COE)</u>	1,10,14,646	1,77,11,971	2,87,26,617
GRAND TOTAL:	43,00,71,723	2,27,60,304	45,28,32,027
Previous year	40,98,45,919	2,02,25,804	43,00,71,723

SCHEDULE-3*(Amount in ₹)*

RESERVES AND SURPLUS	As at 31.3.2018	As at 31.3.2017
Surplus accumulated: Excess of Income over Expenditure		
Balance at the beginning of Financial Year	39,40,761	38,41,882
Surplus for the year as per Account annexed	17,900	98,879
Total :	39,58,661	39,40,761

SCHEDULE – 4*(Amount in ₹)*

DEPRECIATION FUND	As at 31.3.2018	As at 31.3.2017
Opening Balance	9,20,16,222	8,88,76,798
	(5,85,431)	(4,337)
Depreciation for the year	34,94,558	31,43,761
Total :	9,49,25,349	9,20,16,222

SCHEDULE – 5

(Amount in ₹)

R & D RESERVE		As at 31.3.2018	As at 31.3.2017
a) Opening Balance		4,08,15,797	1,65,15,797
Less:- Transfer to R&D Reserve		1,23,00,000	2,43,00,000
		5,31,15,797	4,08,15,797
b) Income from PLSCs'	12,87,410		
(-) Spent under capex	1,75,271		
Less : Adjustment during the year	11,12,139		-
Total :		5,31,15,797	4,08,15,797

SCHEDULE - 6

(Amount in ₹)

S. No.	GRANTS PENDING UTILISATION	Balance at the beginning	Receipts During the year	Adjust -ment during the year	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
I.	NON-PLAN (Ministry of Textiles)						
	Non-plan (Ministry of Textiles)	-	1,10,00,000	-	-	1,10,00,000	-
	NON-PLAN Previous Year	-	1,50,00,000	-	-	1,50,00,000	-
II.	Plan (Ministry of Textiles & other Agencies)						
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	(8,33,153)	2,75,000	-	1,19,633	6,31,075	(13,08,861)
5.	Development of Multi Layered Flame & Thermal Resistance Fabric for Fire Fighter Clothing	(2,98,640)	5,21,920	-	-	13,49,009	(11,25,729)
6.	Development of smart protective textiles for fire fighter soldier & old age people.	1,03,561	-	-	-	1,30,722	(27,161)
7.	Development of Protective Work Wear for Cement Porters	(3,71,327)	6,45,680	-	-	10,00,454	(7,26,101)

S. No.	GRANTS PENDING UTILISATION	Balance at the beginning	Receipts During the year	Adjust-ment during the year	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
8.	Development of Fabric Smoothness Tester	(3,43,938)	-	-	1,08,775	13,13,669	(17,66,382)
9.	New approaches to reduce water consumption in textile wet processing	14,60,297	-	-	1,81,795	13,11,412	(32,910)
10.	Development of value added products from different fibres produced in Himalayan Region (Basic research)	-	1,68,92,800	-	-	21,95,595	1,46,97,205
11.	Common Effluent Treatment Plant (CETP) Azrakpur, Bhuj	34,31,243	12,50,000	-	14,89,000	34,57,409	(2,65,166)
	Sub Total:	(5,13,952)	1,95,85,400	-	18,99,203	1,13,89,345	57,82,900
	Previous Year:	(3,92,863)	1,06,40,600	-	17,55,245	90,06,444	(5,13,952)

S. No.	GRANTS PENDING UTILISATION	Balance at the beginning	Receipts During the year	Adjust-ment during the year	Utilised during the year		Balance carried forward
					Cap.Exp.	Rec. Exp.	
III. POWERLOOM SERVICE CENTRES							
1.	TANDA	(7,84,548)	12,00,000	90,300	-	12,91,000	(7,85,248)
2.	MEERUT	(15,01,572)	17,00,000	98,892	-	18,60,000	(15,62,680)
3.	LUDHIANA	(15,11,104)	15,00,000	88,200	-	15,90,000	(15,12,904)
4.	KANPUR	(16,22,022)	17,00,000	2,89,018	-	19,90,000	(16,23,004)
5.	GORAKHPUR	(2,36,844)	12,00,000	7,201	-	12,20,000	(2,49,643)
6.	PANIPAT	(52,48,744)	17,00,000	1,81,234	-	19,25,000	(52,92,510)
7.	BHILWARA	(48,40,935)	17,00,000	16,900	-	17,80,000	(49,04,035)
8.	VARANASI	23,528	15,00,000	3,40,394	-	18,41,000	22,922

	Write off excess expenditure of earlier years	69,17,951	-	22,07,964	-		91,25,915
	Sub Total:	(88,04,290)	1,22,00,000	33,20,103	-	1,34,97,000	(67,81,187)
	Previous Year:	(1,00,64,045)	1,22,00,000	22,72,755	-	1,32,13,000	(88,04,290)
IV	PLSC Varanasi	1,19,21,479			93,187		1,18,28,292
V	Swachh Bharat Abhiyan	-	5,00,000	-	-	-	5,00,000

VI.	COE						
	COE TMTT	(10,79,395)			44,65,119	2,57,515	(58,02,029)
	COE Focus Incubation Centre	1,76,61,154			1,80,13,831		(3,52,677)
VII.	ISDS						
	ISDS Project	48,58,196	-	-	-	-	48,58,196
	Grand Total:	2,40,43,192	4,32,85,400	33,20,103	2,44,71,340	3,61,43,860	1,00,33,495
	Previous Year:	3,80,77,660	3,78,40,600	10,42,442	1,47,41,881	3,81,75,629	2,40,43,192

SCHEDULE - 7**(Amount in ₹)**

S.NO.	CURRENT LIABILITIES	As at 31.3.2018	As at 31.3.2017
1.	Sundry Creditors	23,56,632	27,82,219
2.	Outstanding Liabilities	36,98,004	16,37,329
3.	Security & other Deposits	94,75,958	1,24,47,210
Total :		1,55,30,594	1,68,66,758

SCHEDULE – 8

(Amount in ₹)

S. No.	FIXED ASSETS	Total cost as on 31.3.2017	Additions during the Year	Adjustment of sale/ W/o	Total cost as on 31.3.2018
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	13,43,421	11,800	-	13,55,221
5.	Office Equipments	76,39,584	1,65,390	-	78,04,974
6.	Cooler (Room & Water)	6,46,384	-	-	6,46,384
7.	Vehicles	12,70,456	13,57,900	6,24,966	20,03,390
8.	Fire Extinguisher	1,36,288	-	-	1,36,288
9.	Intercom, Telephones	2,84,542	-	-	2,84,542
	Machinery & Equipments:				
	A. In House R&D	1,63,24,925	51,69,561	-	2,14,94,486
	B. Sponsored Projects**	3,10,03,869	3,72,958	-	3,13,76,827
	C. CAD & Powerloom Service Centres**	2,29,67,051	1,20,176	-	2,30,87,227
	D. Testing Lab, Panipat Bhitwara & 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	14,96,47,678	44,65,119	-	15,41,12,797
	G. Focus Incubation ** Centre (CoE)	1,10,14,646	1,77,11,971	-	2,87,26,617
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
	Grand Total :	49,13,25,267	2,93,74,875	6,24,966	52,00,75,176
	Previous Year:	46,94,60,824	2,18,64,443	-	49,13,25,267

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 ₹)

S. No.	Investments against Earmarked fund (FDR with Banks)	As at 31 st March 2018	As at 31 st March 2017
1.	Projects	2,66,00,000	2,90,00,000
2.	Others	1,70,00,000	1,21,42,554
Total :		4,36,00,000	4,11,42,554

SCHEDULE – 10

(Amount in ₹)

S.No.	CURRENT ASSETS & LOANS AND ADVANCES	As at 31.3.2018	As at 31.3.2017
1.	Sundry Debtors	68,14,547	1,23,25,858
2.	Advance	3,79,572	17,48,090
3.	Sundry Deposits	6,25,098	6,77,444
4.	Prepaid Expenses	5,01,378	3,39,214
5. a)	Cash in Hand	1,51,997	75,909
b)	Balance with Banks	34,61,889	1,41,01,952
6.	Other Receivables	1,54,54,507	1,28,70,530
7.	FDR with Banks	4,46,96,740	3,75,45,971
8.	Accrued Income	28,52,238	37,98,883
Total :		7,49,37,966	8,34,83,851

SCHEDULE – 11

(Amount in ₹)

S.No.	INDUSTRY CONTRIBUTION & EDUCATIONAL	Current Year	Previous Year
1.	Training & Consultancy		
a)	Foreign assignments 12,93,730		
b)	ISDS & other Educational / Training Prog. 66,69,087		
c)	Other consultancy 1,05,64,575		
d)	NTC 3,54,68,369	5,39,95,761	5,47,03,401
2.	Sample Testing Fees	1,60,05,045	1,79,40,321
3.	Income Testing Lab Bhilwara, Panipat & Meerut	8,72,863	7,91,405
4.	Membership Subscription	6,30,000	6,91,375
	Total :	7,15,03,669	7,41,26,502

SCHEDULE – 12*(Amount in ₹)*

S.No.	OTHER INCOMES	Current Year	Previous Year
1.	Overhead Recovery on Projects	42,10,812	42,39,856
2.	NITRA Publications	63,320	56,216
3.	Income from Investments	56,69,900	39,14,329
4.	Waste field cotton & Yarn & Income from land utilization	7,67,550	7,69,655
5.	Application Forms	84,000	1,27,954
6.	Miscellaneous Income	3,41,511	3,82,723
Total :		1,11,37,093	94,90,733

SCHEDULE – 13

(Amount in ₹)

EXPENDITURE ON ESTABLISHMENT	Current Year	Previous Year
NITRA	6,38,36,315	5,63,41,393
Sub Total :	6,38,36,315	5,63,41,393
Less : Transferred to Expenditure on Projects	1,11,86,517	88,41,858
Total:	5,26,49,798	4,74,99,535

SCHEDULE – 14

SPONSORED PROJECTS EXPENDITURE AND GRANT-IN-AID

Sl. No.	Name of the Sponsored Project	2017-2018		2016-2017	
		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.	Study to enhance Indian Apparel Export	-	-	37,53,963	24,73,083
2.	Extraction of textile fibres from pine & making yarn from it.	-	-	5,10,000	5,10,000
3.	Development of Electronic Drape Meter (DST) Based on Image Analysis Technique	6,31,075	6,31,075	16,28,132	16,28,132
4.	Development of Smart protective Textiles for fire fighter, soldier & old age people	1,86,745	1,30,722	14,62,055	10,23,439
5.	Development of Multi layered flame & thermal resistance fabric for fire fighter clothing	19,27,155	13,49,009	17,31,429	12,12,000
6.	Development of protective work wear for cement porters	14,29,220	10,00,454	12,44,667	8,71,267
7.	Development of fabric smoothness tester	26,27,338	13,13,669	16,56,126	8,28,063
8.	New Approaches to Reduce Water Consumption in Textile Wet Processing.	18,73,445	13,11,412	3,45,290	2,41,703
9.	Development of value added product from different fibres produced in Himalayan Region (Basic research)	21,95,595	21,95,595	-	-
10.	Common Effluent Treatment Plant Azrakpur, Bhuj	34,57,409	34,57,409	2,18,757	2,18,757
11.	Centre of Excellence	53,044	53,044	9,56,185	9,56,185
	Total :	1,43,81,026	1,14,42,389	1,35,06,604	99,62,629

SCHEDULE-15

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

(Amount in ₹)

S.No	Place of the Centre	2017-2018		2016-2017	
		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	13,98,400	12,91,000	14,82,597	12,68,000
2.	MEERUT	24,08,339	18,60,000	21,02,879	17,94,000
3.	KANPUR	20,77,783	19,90,000	19,93,579	19,26,000
4.	LUDHIANA	16,74,990	15,90,000	18,79,767	16,00,000
5.	GORAKHPUR	13,47,443	12,20,000	13,11,687	12,00,000
6.	PANIPAT	21,70,314	19,25,000	23,12,179	19,55,000
7.	BHILWARA	22,10,104	17,80,000	21,70,044	17,90,000
8.	VARANASI	22,86,457	18,41,000	20,35,056	16,80,000
TOTAL :		1,55,73,830	1,34,97,000	1,52,87,788	1,32,13,000

SCHEDULE – 16

(Amount in ₹)

EXPENDITURE ON GENERAL ADMINISTRATION	Current Year	Previous Year
Electricity Charges & DG Running	28,66,242	32,99,140
Traveling & Conveyance	14,49,367	11,74,263
Building Maintenance & Housekeeping	5,42,707	6,18,301
Repairs Plant & Machinery, Computer, Building & others	18,61,855	22,66,227
Legal & Professional Exps.	9,14,258	8,07,328
Security Arrangement	21,12,592	15,99,008
Books, Periodicals & Publication	3,99,217	2,74,327
Advertisement exps	11,46,445	10,59,572
Insurance	2,26,695	2,59,192
Cultivation / Horticulture Exps.	5,48,491	5,07,890
Postage & Telephone Exps.	6,00,543	6,78,358
Car Running & Maintenance	2,29,483	3,06,348
Printing & Stationery	9,99,809	10,63,755
Chemicals, Glassware and Spares Stores Consumed	8,21,825	7,28,995
Training & Seminar Exps.	94,258	84,295
Honorarium to Auditors	60,000	50,000
Testing lab exps., - Panipat, Bhilwara & Meerut	2,42,503	2,17,828
Other Misc. Expenses	50,46,749	29,61,470
Total :	2,01,63,039	1,79,56,297

SCHEDULE – 17

Accounting Policies and Notes on Accounts

1. 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.

1. FOREIGN CURRENCY TRANSACTION

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

1. REVENUE RECOGNITION

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

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

NOTES ON ACCOUNTS:

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

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

AUDITOR'S REMUNERATION

	CURRENT YEAR	PREVIOUS YEAR
Audit Fees	60,000	50,000.00



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