



ANNUAL REPORT

2016-17

NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION

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

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MESSAGE FROM THE CHAIRMAN COUNCIL OF ADMINISTRATION



Dear Patron,

I feel honored to have the opportunity for penning down this annual column being the Chairman of NITRA. 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. The pursuit for excellence is still on and the organization is growing at a steady pace.

Friends, The Indian textiles & clothing industry had a moderate run during the fiscal 2016-17. Several varying factors played significant role simultaneously in this particular industry during the reported period. The overall textile and clothing exports from India continued to dip for the second successive year and stood at \$38.6 billion, much below the initial target of \$48.5 billion. It so happened due to demand from China was tepid and recovery in the developed markets like the US and the EU was not as expected. Demonetization, though temporarily, too hit this labor-intensive sector, as workers are often paid in cash in this industry. Stiff competition from countries like Vietnam, Bangladesh and Pakistan - with zero-duty access to some of the key markets - added to the woes of Indian exporters.

In spite of the above, I feel the future for the Indian textile industry looks promising due to Govt's three-pronged approach of job creation, pushing growth for exports and labor reforms. In fact for the first time in nearly 50 years significant labor reforms have been made. I hope this combined measures would push up the exports in the coming years. In addition to this, owing to increasing consumerism and disposable income, the retail sector is likely to grow further in near future. I am sure, all these will give a boost to Govt. of India's Make in India and Skill India programs.

While talking about NITRA, I feel happy to inform that during the reported period NITRA scientists have carried out 13 R&D projects, 2 completed and 11 in the pipeline. The other activities of NITRA i.e. technical consultancy and material quality evaluation have also been quite satisfactory during the last one year.

Amongst its training activities, it is a matter of satisfaction that NITRA has been approved by Textile Committee (Resource Support Agency), as assessment agency for assessing ISDS trainees. It is also approved by Textile Sector Skill Council to conduct Training of Trainer programs under PMKVY scheme. The organization also conducts 2 short term regular programs approved by Apparel

Sector Skill Council, 3 distance learning programs for professionals working in textile and apparel industry and 2 programs under UPSDM Project. Following the success of existing programs, NITRA is going to launch three new programs Quality Assessor (QA), Sampling Tailor (ST) and Fashion Design (FD) in the next fiscal under UPSDM.

NITRA's academic wing NITRA Technical Campus has also grown steadily and is conducting three B. Tech. programs on Textile Technology, Textile Chemistry, and Computer Science & Engineering. All the 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 reputed textile and IT companies.

To conclude, I thank the Ministry of Textiles, Government of India, U.P. State Govt., textile and allied industries, various para-military agencies and others who have utilized NITRA's facilities and provided support and encouragement to us. I hope that both the industry and the govt. will continue patronizing NITRA and NITRA would continue to serve industry the best.

SANJAY KUMAR JAIN

FROM THE DIRECTOR GENERAL'S DESK



During the financial year 2016-17, NITRA has done commendable work to support the Indian textiles & garment industry. Following are the highlights:

Activities at a glance (2016-17)

R&D		Clientele	
Projects completed	02	Clients served	1193
Projects ongoing	11	New clients inducted	268
Research papers	28		
Consultancy services		PLSCs	
Technical consultancies	109	Technical assistance/consultancies	181
Technical opinions & defect analysis	12	Design developed	232
International assignments	04	Liaison visits/Survey carried out (No. of units covered)	3949
Testing services		Sample tested	2112
Quality evaluation in NITRA labs	9443	Persons trained	877
Training services		Exhibitions/seminars organized	231
Manpower training programs:	33	Clients served	565
Personnel trained by NITRA :	1257	New clients added	135

1. Research & Development (Products) Division, Chemical & Quality Evaluation Division and Polymer & Technical Textile Divisions

Completed Projects:

- De-colorization of cotton textile wet processing effluent through nano particles.

On-going Projects:

- Development of fabric smoothness tester
- Development of work wear for electroplating workers
- Development of protective work-wear for cement porters
- Development of multi-layered flame & thermal resistant fabric for fire-fighting clothing
- 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.
- New approaches to reduce water consumption in textile wet processing.

Publications: 15

Training Programs: 09 (06 with other divisions)

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

Ongoing Projects:

- Development of smart protective textiles for fire fighter, soldier and old age people
- Investigation on process variables on functional properties of cotton/corn blended fabric

Publications: 02

Training Programs: 03 (02 with other divisions)

Technical Consultancy: 09 (01 with other division)

3. Software Development Centre

Publications: 04

Training Program: 04

4. Engineering Division

Publications: 04

Technical Consultancy: 17

Training Program: 07

5. Environmental Engineering Division

Technical Consultancy: 01 (with other division)

Training Program: 03 (01 with other division)

6. Physics & Quality Evaluation Division

On going Project:

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

Publication: 01

Technical Consultancy: 37

Training Program: 03 (with other divisions)

7. Garment Centre

Completed Project:

- Study to enhance Indian apparel exports.

Publication: 01

Technical Consultancy: 08

Training Programs: 09 (01 with other division)

8. Publication Division

Publication: 01

Training Programs: 03 (01 with other division)

Technical Consultancy: 02

9. Mechanical Processing (Wvg.) Division

Technical Consultancy: 35

Training Programs: 01 (with other division)

Quality Evaluation at NITRA Laboratories

Altogether 9,443 samples were tested at NITRA's NABL accredited laboratories during 2016-17. Following is the laboratory-wise break up for the same:

Physics Quality Evaluation Laboratory	-	4507 samples
Chemical Quality Evaluation Laboratory	}	- 3560 samples
Heat & Flame Testing Laboratory		
Polymer & Technical Textiles Laboratory	-	1107 samples
Environment Laboratory	-	145 samples
Eco Laboratory	-	124 samples

In addition to above, 12 fabric defect/damage analysis and technical opinions were carried out in various NITRA laboratories. In addition to this, 589 R&D samples were also tested in PQE and CQE labs.

Publications

In the year under review, 28 research & technical papers are published/ presented in technical journals and forums. Second edition of three booklets were 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 three patents were filed during the year:

1. A process for fiber extraction from Pine Needles (Perul) (Patent application No. 201711001977 dt. 18.01.2017)
2. An apparatus to determine dust resistance characteristics of sheeting material (Patent application No. 201711002704 dated 24.01.2017)
3. Method of manufacturing thermal barrier or liner using roving woven material (Patent application No. 201711010197 dt. 23.03.2017).

Development of Specifications

NITRA has developed following two specifications for BIS which is under printing in BIS:

1. Development of Specification "Pouch for ammunition and grenades"
2. Development of Specification "Technical 3-point sling universal"

Important Events and Happenings during 2016-17*

- NITRA's presence at TECHNOTEX 2016, Mumbai
- Seminar on "Latest Trends in IT Industry"
- Program on General awareness on ISO/IEC: 17025:2005(NABL) and Practices and Concepts of Uncertainty in Measurement
- NITRA Technical Campus presents Aarumbh 2016
- Program on Laboratory Management System and Internal Audit (ISO/IEC 17025:2005) at Textile Research & Application Development Centre (TRADC), Kharach
- Program on "Manufacturing & Quality evaluation of Textiles (Defence textiles)" for ITBP Officers
- "International Yoga Day" at NITRA Technical Campus
- NITRA and District Programme Management Unit (DPMU), Ghaziabad organize Career Counseling & Personality Development Program under UPSDM project
- NITRA's presence at 2nd Defence-ITTA Exhibition cum Seminar 2016
- NITRA signs MoU with Ordnance Factories Institute of Learning, Kanpur

- A lecture on “Ballistic Textiles”
- NITRA organizes a seminar on “Ballistic Textiles and Fire Fighter’s Suits”
- NITRA Technical Campus celebrates “Vishwakarma Pooja”
- Guest lecture on “Ethical Hacking & Cyber Security and Internet of things”
- Eminent Industrialists Grace NITRA’s 13th Convocation
- NITRA Technical Campus hosts Intra-college Debate Competition Parivartan’16
- NITRA Technical Campus organizes Techno Science Quiz 2016
- Shri Ajay Tamta, Minister of State for Textiles motivating NITRA, visits twice in two months
- Mr. Sanjay Kumar Jain, Managing Director, TT Limited, elected as NITRA’s new Chairman
- Sports Meet 2016 at NITRA Technical Campus
- NITRA’s Presentation at Workshop on “Common Effluent Treatment Plant (CETP)” for Ajrakhpur Block Printing Cluster, Bhuj
- Prestigious Scholarship for NITRA Technical Campus Students
- Workshop on “Scientific Selection and Recruitment of Workforce” at NITRA
- NITRA Scientist presents a paper on “Manufacture, Properties and Applications of Sewing Threads”
- Training Program on Quality Evaluation of Textiles
- NITRA Publishes useful technical books for the industry
- Research Advisory Committee (RAC) Meeting at NITRA, Ghaziabad
- Awareness program on “Digital India”
- Grand Success for NITRA Technical Campus (NTC) Students in B.Tech.
- NITRA organizes An Awareness Program on ISO 9001:2015
- A Kenyan Delegation visits NITRA
- NITRA, NISTI and Institute of Engineers (Delhi Chapter) organize a presentation on “Personal Protection Textiles”
- NITRA, NPTI and BBSB Engineering College jointly organizes 3 days’ workshop on Energy Conservation
- 57th Joint Technological Conference by ATIRA, NITRA, SITRA & BTRA
- NITRA Embraces Green Power, Goes the Solar Way
- NITRA conducts Training Program on Electrical Safety at Chenab Textile Mills, Kathua
- Union Textile Minister Smt. Smriti Zubin Irani inaugurated the foundation stone for the Common Effluent Treatment Plant (CETP), designed by NITRA at Ajrakhpur, Bhuj (Gujarat) on 18th March 2017

**For details refer chapter Important Events and Happenings during 2016-17.*

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 2016-17.

Total clients served	: 1193
New clients added	: 268

More than 26% 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
Shiva Taxyarns Ltd., New Delhi	206

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

Unit	No. of Services
Ordnance Clothing Factory, Shahjahanpur	99
TUV-SUD South Asia Pvt. Ltd., Gurgaon	95
Alps Industries Ltd., Ghaziabad	92
SB Equipment, New Delhi	90
Keshav Exports, Panipat	83
Arihant Spinning Mills, Malerkotla	76
Uniproduct India Ltd., Rewari	59
Trendz Clothing (P) Ltd., Noida	51

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

Unit	No. of Services
TUV Reheinland India Pvt. Ltd., Gurgaon	46
Central Sliver Plant, Sihore (M.P.)	41
Shahi Exports (P) Ltd., Faridabad	41
Banswara Syntex Ltd., Banswara	38
AAA Spinners, Panipat	37
Central Sliver Plant, Etah	33
Sheela Foam Pvt. Ltd., Noida	33
Kautilya Industries Pvt. Ltd., Bhiwani	32

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

Testing	3515
Consultancy/Training etc.	128
Total Services availed	3643

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.150.00 lacs towards recurring expenditure and Rs.64.81 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.36.50 lacs grant for 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 40th Annual General Meeting of the Association held on 23rd September, 2016, 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. 3, 2016 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 2017, 120 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 2016-17, NITRA worked on thirteen projects. Out of which two have been successfully completed during the period whilst work is in progress for the eleven projects.

Work done in the area of R&D during the year 2016-2017 is categorized as below:

1. GOVERNMENT SPONSORED PROJECTS (Completed projects)

1.1 Completed project

- (i) **Project title** : Study to Enhance Indian Apparel Exports (Sponsored by Ministry of Textiles, Govt. of India)
- Objectives** :
- To reduce spreading loss and improve cutting efficiency
 - To develop process-wise benchmarks for sewing operations
 - To suggest techniques for waste minimization and improve efficiency of various departments
- Outcome** :
- Studies conducted by various researchers in the past have highlighted that productivity of Indian garment industry is much lower as compared to countries like Vietnam and China. A comprehensive study was conducted in 50 units/styles in four major garment manufacturing/export clusters namely NCR, Bengaluru, Tirupur and Ludhiana between January 2016 and December 2016. The study covered all major departments like fabrics, layering, cutting, sewing, finishing and packing.
 - In all the 4 clusters, significant variation in productivity and work practices was observed in all the departments.
 - Several innovative work practices in fabric stores, laying, fusing, sewing and finishing were observed in many garment units which will help in productivity/quality of various processes in a garment unit.
 - The study would help in finding ways and means to improve the performance of various departments of a garment unit by optimization of materials, human resources and better work practices.

1.2 Ongoing 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

Progress of work :

- Designing part of smooth-smoothness tester has been completed.
- Verification of smoothness properties of various fabrics using newly developed / fabricated apparatus is under progress.
- A new version of smoothness tester is also fabricated.
- Patent has been filed.



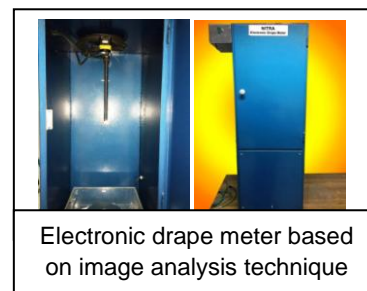
(ii) **Project title** : Development of electronic drape meter based on image analysis technique (Sponsored by Department of Science & Technology, Govt. of India)

Objectives :

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

Progress of work :

- Initial design of the instrument has been drawn. The experimental rig has been manufactured.
- Optimization of design parameters is under progress.



- (iii) 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** :
- A survey was carried out in DMRC and NDMC and Some private constructions site by using well designed questionnaire to get first hand information about health hazards among cement workers.
 - Development and standardization of work wear materials are under progress. Four composite fabrics have been developed and their evaluation process is under progress.
 - One cement manufacturing unit is also surveyed to asses the actual practice followed by cement workers.
 - Fabric dust proof property analyzer is fabricated and patent is filed.
- (iv) 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** :
- Physiochemical properties of existing fire fighter suit as per standard analyzed.
 - Gaps are identified in the existing fire fighter suits being used in the Indian fire fighters in comparison to fire fighter suits of developed countries

- Development of outer layer and thermal layer are under progress.
 - Provisional patent is filed for thermal layer.
- (v) 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.
- Progress of work** :
- Various gadgets and accessories have been studied.
 - Developed conductive fabric from conductive steel yarn.
 - Different type of sensors are procured.
 - Evaluation of conductive fabric is under process.
 - Heart rate monitor (Sensitive) has been procured.
 - Protocol for communication from heart rate monitor to GSM module finalized
- (vi) Project title** : New Approaches to Reduce Water Consumption in Textile Wet Processing (Sponsored by Ministry of Textiles, Govt. of India)
- Objectives** :
- To conduct preliminary trails to test suitability for various dyeing textile material.
 - Designing and fabrication of equipment for dyeing and standardization
 - Conducting dyeing trail 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** :
- Study is carried out in 02 units and suggestions are given to the units for saving/reuse of water in wet processing.
 - Further work is under progress.

2. IN-HOUSE PROJECTS

2.1 Completed Project :

- (i) **Project title** : De-colorization of cotton textile wet processing effluent through nano particles
- Objectives** :
- Preparation and characterization of suitable nano-particles, optimization of conditions for best particles preparation.
 - Study on dye removal efficiency using simulated and actual effluent generated from the dyeing of cotton and its blend with reactive, disperse, vat and sulfur class of dyestuff.
 - Immobilization of nanoparticles on a suitable substrate and their decolorization efficiency estimation.
 - Column studies for color removal using simulated and actual effluent from cotton textile processing industry.
- Research Outcome** :
- A suitable nanoparticle has been prepared and conditions for best particle preparation have been optimized.
 - The prepared nano-material is capable of removing reactive, disperse, vat and sulfur dyes from aqueous solutions.
 - It shows maximum adsorption capacity for reactive dyes.
 - Two hours contact is sufficient for removal of the dyes from solutions.
 - The nanoparticle can be used in the pH range of 3-10 and it is stable up to 60°C.
 - Presence of salts increases the efficiency for removal of dyes from aqueous solutions.
 - However, its efficiency decreases in the presence of surfactants.
 - Immobilization of nanoparticles has been done on a cation exchange resin to prepare columns.
 - The immobilized nanoparticles are capable of removing the dyes from aqueous solutions more efficiently.
 - The nanomaterial could be regenerated and reused for several cycles in removal of dyes from solutions.
 - The nanomaterial is capable of removing dyes from both simulated and actual dyeing effluents.
 - However, its efficiency for color removal from actual dyeing effluents decreases probably due to presence of some interfering constituents present in the effluent.

2.2 Ongoing 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.

Progress of Work :

- Preliminary study on extraction of fibre from pine needle is done.
- Extracted fibres are blended with other fibres for manufacturing of yarn.
- Few fabric samples are developed.
- The evaluation of these fabrics are under progress.

(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.

Progress of work :

- Present work wear used by workers have been collected and physico-chemical properties have been analyzed.
- Twenty fabric samples are manufactured and their analysis are under progress.

(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.
- Progress of Work :**
- Microcapsules have been formed.
 - Application of finishes on fabric using pad dry cure method has been done.
 - Testing of finished fabrics are under progress.
- (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.
- Progress of Work :**
- 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 and other products are under progress.
- (v) 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 parameters are taken for the experiments during yarn manufacturing:
 - Rotor speed
 - Blend proportion
 - Rotor diameter
 - Opening roller speed
 - Yarn evenness, imperfection and strength 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.

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 2016-17.

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
- Study of Autoconer bobbin rejection
- Assessment of ISDS trainees of textile & garment units
- Centre validation for conducting training in textile sector for job roles covered under Textile Sector Skill Council (TSC).
- Setting up of Common Effluent Treatment Plant (CETP) for block printing clusters
- Techno Economic Viability (TEV) Study
- Third party Verification of Khadi mark

Manpower rationalization of one of the garment unit and its corporate office

The unit was engaging 105 personnel at managerial & supervisory positions and nearly 780 man-days/day of workmen besides engaging piece-rate workers.

NITRA Team consisting of 3 experts spent more than 20 days in the corporate office and garment unit. Detailed discussions were held with the senior and middle management personnel and time studies were conducted in the technical and ancillary departments.

Studies conducted by NITRA revealed surplus manpower in almost all the departments. As per the studies, 33% reduction in manpower was possible in the unit that would result in financial savings of approx. Rs.1 crore per annum.

These findings were also accepted by the top management of the unit.

* Consultancy projects undertaken in the year 2016-17 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: 4507

In addition to this, 239 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:

Techniques India/Trendz Clothing, Noida; Nikhil Textile Industries Ltd., Ajmer; Trans India Nonwovens Pvt. Ltd., Jaipur; Chintoo Creations, Gurgaon; Shyam Indospin Ltd., Ballarpur; Well dress India, Ghaziabad; J.B. Ecotex, Surat; Fasion Accessories, Gurgaon;

Mehamia Textiles P. Ltd., Gohana; Indian Carpet Center, New Delhi; Uma Kites, Modi Nagar; Blue Apple Trade Link P. Ltd., New Delhi; A Infrastructure Ltd., Bhilwara; Institute of Nuclear Medicine, Delhi; AR Fabric P. Ltd., Delhi; Ginni Spectra P. Ltd., Jaipur; Eagle Business Corporation, Noida; Ekap India P. Ltd., Kolkata; United Colour of Benetton, Gurgaon; Archi Trading Co., Murad Nagar, Ghaziabad; EPIC Impex, Delhi; SM Laxmi Threads, Ghaziabad; PR Threads, Delhi Vishal Polyfibres P. Ltd., Gurgaon; Texo Fab P. Ltd., Panipat; True Value Textfab, Bhilwara; The Rajlakshmi Mills P. Ltd., Noida; Veritaz Trading & Exim P. Ltd., New Delhi; Autotrim India, Faridabad; Cotton Buying Services, Faridabad; AGL Polyfil P. Ltd., Howrah; Amico Textiles, Nalagarh; Biba Apparels Ltd., New Delhi; Cirrus Graphics P. Ltd., Noida; Selhsons (India), Amritsar; Chandra Hosiery Works, Guwahati, Assam; Dayanand Textile Ind., Bhilwara; Vishvas Medical System, New Delhi; TC Terrylex Ltd., Mohali; JDA Textile World P. Ltd., Gurgaon.

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

No. of Commercial Samples Tested: 3560

In addition to this, 350 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. N9 World Technologies (P) Ltd., Bangalore; Neemrana Knitfab Pvt. Ltd.; Rajasthan, J.K. State Handloom Development Corporation, Jammu; Deepak Flooring, New Delhi; Starwire (India) Limited, New Delhi; Shree Bharat International Pvt. Ltd; Noida, CRPF, Ranchi; Popular Plastic India, Delhi; Taurustex, Delhi; Ishman International, Noida; New Horizon Kits Pvt Ltd., New Delhi; Vemb Life Style Pvt. Ltd., Mumbai; Rama Krishna Woollen Indus, Panipat; Youngman Woollen Mills Pvt. Ltd., Panipat; Morish India Exim Pvt. Ltd., Noida; SGS India Private Limited, Mumbai; Shree Krishna Silk Mills, Mumbai; Sunamia Industries, Ludhiana; Integrated Defence Products (P) Ltd., New Delhi; Central School of Weapons and Tactics (CSWT); Border Security Force, Indore (MP); MKU Private Limited, Kanpur; Livinguard Technologies Pvt. Ltd., Mumbai; Himatsingka Wovens Private Limited, Bangalore; RITES Ltd., Delhi; CFEES-Timarapur (DRDO), Delhi.

POLYMER & TECHNICAL TEXTILES LABORATORY

No. of Commercial Samples Tested : 1107

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. V.R. Agency, Gurgaon; Asia Pacific Fibres, Indonesia; Puromatic Fibres (P) Ltd., New Dehi; SMPP Pvt. Ltd., New Delhi; Power Tech India, Ghaziabad; Centrodorstory (India) P. Ltd., New Delhi; Magic Internnational, Delhi; SIDBI Innovation & Incubation Centre, Kanpur; Gokaldev Exports Ltd., Bangalore; Exquisite Collection, Delhi.

ECO LABORATORY

Number of Commercial Samples Analyzed : 124

Type of samples received:

Fabric, Yarn, Fibers, Garment, Curtain, Dye, Carpet, Bathmat, Rugs, PVC Leather Cloth, Plastic, Resin, Net, Lace, Automobile Components, 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
- Pentachloro phenol (PCP) by HPTLC
- pH of Aqueous Extract by ISO 3071

New Customers Inducted:

Amritsar Swadeshi Textile, Amritsar; Usha Yarns Ltd., Chandigarh; G. B. Pant University of Agriculture & Technology, Pant Nagar; All India Artisan and Craftworkers Welfare Association, New Delhi; Sarita Handa Exports Pvt. Ltd., Gurgaon; Shree Sidhi Vinayak Texcolor Pvt. Ltd., Sonapat; Super Polymers, Faridabad; Nagpal Woolen Textile Industries, Chandigarh; Geeta Interfab Pvt. Ltd., Sonapat; True Value Texfab, Bhilwara; The Rajlakshmi Cotton Mills Pvt. Ltd., Noida; Indian Carpet Centre, New Delhi; Mahavir Spinfab Pvt. Ltd., Kanpur; Bajaj Dyechem, Hisar.

ENVIRONMENT LABORATORY

Number of Commercial Samples Analyzed: 145

Type of samples received:

Raw Water, Treated Water, Distilled/De-mineralized Water, Drinking Water, Process House Water, Sewage, Industrial Effluents, ETP Inlet, Outlet water and Sludge, STP Inlet & Outlet Water, Chemicals, 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 analysis of 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 Customers Inducted:

Rajeev Chemicals Pvt. Ltd., Ghaziabad; Shree Sidhi Vinayak Texcolours Pvt. Ltd.; Sonipat; Kashi Vishwanath Textile Mill (P) Ltd., Kashipur; Energetic Solutions, Ghaziabad; Ch. Chhabil Dass Public School, Ghaziabad; Krishna Institute of Engineering & Technology, Ghaziabad; Rainbow Textiles, Baghpat; National Institute of Technology (NIT), Kurukshetra; PNC Infratech Limited, Agra; RMG Polyvinyl India Limited, Bulandshahar; Luxmi FabDye Printing Pvt. Ltd., Greater Noida; Jain Textile Industries, Gurgaon; RKB Towel Manufacturing Co. Ltd., Ghaziabad; Ashiana Palm Court Apartment, Ghaziabad.

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

- (i) SASMIRA, Mumbai
- (ii) Reliance Industries Ltd., Ahmedabad
- (iii) SITRA, Coimbatore
- (iv) WRA, Mumbai
- (v) BTRA, Mumbai
- (vi) Garware - Wall Rapes, Pune
- (vii) NITRA, Ghaziabad

TRAINING SERVICES

Keeping in view the growing importance of human resource development in today's modern management practices, NITRA offered various training programs throughout the year, so as to help the industry improve its operational methods. In addition to shop-floor based training packages for practicing professionals, NITRA also offered a number of techno-management job oriented programs for young graduates and under graduates aspiring to make their career in the textile and garment industry. These programs cater to the needs of all categories of personnel i.e. middle level managers, officers, supervisors, staff including workmen of different categories.

Since 2002, NITRA is conducting job-oriented professional training programs for the textile and apparel sector. During the year 2016-17, two full time programs were offered in various disciplines. A total of 83 trainees were trained in these programs. Details are given below.

Job-Oriented short term programs:

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

Placements:

For the batch of 2016-17, a total of 17 companies have recruited students of short term programs. Major Recruiters include Alok Industries; Bureau Veritas Consumer Products; CTA Apparels; Chelsea Mills; G. V. Knits; Maya Exports; MI Fabrics; Orient Fashions; Oriole Sourcing; Pearl Apparels; Paramount products; Radiant Exports; RMX Joss; Super House Group, Tandil; TCNS and Treadstone.

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 2016-17, 3 distance learning programs were offered in various disciplines. Contact sessions are conducted twice in a month on alternate Sundays in NITRA campus. A total of 63 professionals were trained in different programs. Details 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 and July. During the year 2016-17, 3 programs were offered in following areas:

- 1 Textile Testing
- 2 Apparel Manufacturing, CAD and Technical Textiles
- 3 Textile Technology, Testing and Technical Textiles

A total of 49 students were trained in the above mentioned programs. The students came from University of Allahabad, FDDI, Ruchi Institute, Allahabad, Government Polytechnic-Varanasi and Mau, and Vidya Institute of Fashion Technology, Meerut.

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 second batch of B. Tech. students of NITRA Technical Campus has made a record. Till 31st March 2017, 37 students of Textile Technology & Textile Chemistry branch and 17 students of Computer Science & Engg. have been placed in renowned companies like Vardhman Textiles, IDP Pvt. Ltd., Pasupati Spg & Wvg Mills, Alok Industries Ltd., Maharaja Shree Umaid Mills, Sara Textiles, Archtech Information System, Space Technology & Education Pvt. Ltd., Next Step Services Pvt. Ltd., IT Globalizer, Creater Technology, CMS IT Services Pvt. Ltd. Refer Annex-13 for placement details of NITRA Technical Campus (NTC) students.

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.

Under the State Skill Policy, NITRA has offered two programs (i) Industrial Sewing Machine Operators (ISMO) and (ii) Apparel Quality Assurance & Compliance (AQAC). During the year 2016-17 total ten batches of ISMO i.e. 162 trainees and AQAC i.e. 108 trainees have completed training.

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	8967
Journals (For list of journals refer Annex-11&12)	28
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 three Booklets were revised and printed during the year:

1. Zippers - 2nd edition
2. Glass Threads - 2nd edition
3. Failure Mode & Effect Analysis (FMEA) - 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.

Library Timings

Library remains open Monday - Saturday 9.30 am to 5.30 pm (except 2nd and 4th Saturdays and all national holidays). The library also remains open on 2nd and 4th Sundays to provide service to its staff members and students of DLP courses.

IMPORTANT EVENTS AND HAPPENINGS DURING 2016-17

NITRA's presence at TECHNOTEX 2016, Mumbai

In order to create awareness about NITRA's R&D activities, technical consultancy, quality evaluation and facilities available particularly for Protective and Automotive textiles, NITRA participated in Technotex 2016 exhibition held at Mumbai from April 21-23' 2016. A good number of visitors from technical textile fields visited the stall and interacted with the officers about the activities and developments done by NITRA. Visitors shown keen interest in knowing the expertise and facilities available in the area of protective and automotive textiles.

Seminar on "Latest Trends in IT Industry"

A Seminar on "Latest Trends in IT Industry" was organized by NITRA Technical Campus and HCL at HCL centre, Ghaziabad on 30th April 2016. The B.Tech. Computer Science & Engg students of NITRA Technical Campus took keen interest in the seminar.

Program on General awareness on ISO/IEC: 17025:2005(NABL) and Practices and Concepts of Uncertainty in Measurement

A program on General Awareness on ISO/IEC: 17025:2005 (NABL) and Practices and Concepts of Uncertainty in Measurement was organized at NITRA, Ghaziabad for officers and staff of all laboratories. Program was conducted by Shri Vikram Parashar, MD, Parashar Calibrations Pvt. Ltd. on May 7, 2016. Staff took lot of interest and have detailed discussions with the guest speaker. Shri Abhijit Pal, Officiating Director, NITRA thanked the speaker for his efforts making everyone understand the topic "Uncertainty" in the simplest way. Dr. Arindam Basu, Director General, NITRA appreciated the speaker the way he conducted the program. At last, vote of thanks was given by Dr. M.S. Parmar, Joint Director (Academics).

NITRA Technical Campus presents Aarumbh 2016

The first farewell party for the final year students of NITRA Technical Campus was hosted on 10th May 2016 at the college campus. About 100 final year students from Textile Technology (TT) and Computer Science & Engineering (CSE) branches were given farewell. A cultural event was performed. Pass out students Visikh Bhardwaj (TT) and Subhangi Bahuguna (CSE) were adjudged the Mr. and Miss Evening title, respectively. A DJ party and dinner were also the part of the function.

Program on Laboratory Management System and Internal Audit (ISO/IEC 17025:2005) at Textile Research & Application Development Centre (TRADC), Kharach

NITRA team conducted 4 days training program on "Laboratory Management System and Internal Audit (ISO/IEC 17025:2005)" from 23.05.16 to 26.05.16 at Textile Research & Application Development Centre (TRADC), Birla Cellulose, Kharach. Program was full of workshop exercises, case studies and mock audits. It was very much appreciated by the participants and Dr. Vijay Ramakrishnan, Head-TRADC.

Program on “Manufacturing & Quality Evaluation of Textiles (Defence Textiles)” for ITBP Officers

NITRA conducted Training program for ITBP officers on “Manufacturing & Quality Evaluation of Textiles (Defence Textiles)” on June 1 & 2, 2016. Senior officers of ITBP had intensive interactions and felt satisfied with the topics deliberated. Officers thanked NITRA faculties for imparting the crisp knowledge on textiles, its manufacturing and quality evaluation that will help them a lot in taking decision related to procurement of textiles items for ITBP. Dr. Arindam Basu, DG formally welcomed the participants while Shri A. Pal, Officiating Director apprised them about NITRA activities. Program was concluded by Dr. M.S. Parmar, Joint Director (A) with the formal vote of the thanks.

“International Yoga Day” at NITRA Technical Campus

NITRA organized and celebrated 2nd “International Yoga Day” at its campus on June 21, 2016.

NITRA and District Programme Management Unit (DPMU), Ghaziabad organize Career Counseling & Personality Development Program under UPSDM project

NITRA organized a 1-day program on Career Counseling & Personality Development for its trainees under UPSDM programs on 27th June’16 jointly with DPMU, Ghaziabad. Dr. Arindam Basu, DG, NITRA, formally welcomed the audience while Chief Guest Sh. Krishna Karunesh, IAS, CDO spoke about the benefits of UPSDM program. Sh. Shashi Bhusan Upadhyaya, Dist. Coordinator, DPMU & DEO, Gzb. apprised about the various schemes under UPSDM. Also present on the occasion were Sh. Sachit Sharma, Employment Officer, Gzb., Dr. Sushil Dutt, Associate Prof., Rajdhani College, DU, and Dr. Mazhar Khan, Psychologist Consultant. The program immensely benefited the trainees.

NITRA’s presence at 2nd Defence - ITTA Exhibition cum Seminar 2016

NITRA participated in 2nd Defence-ITTA Exhibition cum Seminar 2016 held at Manekshaw Center, Delhi Cantt on June 15 & 16, 2016 to create awareness about NITRA’s R&D activities, technical consultancy, quality evaluation and facilities available particularly for Protective and Automotive textiles. A presentation namely “Protective Textiles – New Developments” was made by Dr. Arindam Basu, Director General NITRA in the seminar. NITRA Stall was visited by a good number of visitors from technical textile fields. Ms. Anu Garg, IAS, Joint Secretary, Ministry of Textiles, Government of India and MGO – Indian Army also visited NITRA Stall. They interacted with the officers about the activities and developments done by NITRA.

NITRA signs MoU with Ordnance Factories Institute of Learning, Kanpur

NITRA signed MoU with Ordnance Factories Institute of Learning (OFIL), Kanpur on June 16, 2016 for jointly undertaking various programs in the field of Qualitative Training Programs with the following objectives:

1. To promote and enhance the academic interest between OFIL and NITRA
2. To advice on improving the quality of education
3. To promote education activities at both the institutions

4. To improve knowledge and skill of the participants
5. Share the common resources
6. Provide necessary help in organizing workshops and personality development programs at both places
7. Provide academic interactions by delivering special lectures at OFLIN on topics of Clothing Technology and Garments Functional requirements

A lecture on “Ballistic Textiles”

Dr. Xiaogang Chen, Reader in Textile Engineering and Materials, The University of Manchester, U.K, delivered a lecture on “Ballistic Textiles” on 15th September 2016. The students of B.Tech. Final year (TT and TC) attended the same. He has explained various types of body protectors being used for the protection of any projectile impact. He also discussed the method of testing of ballistic textiles and recent R&D going on.

NITRA organizes seminar on “Ballistic Textiles and Fire Fighter’s Suits”

NITRA has organized a seminar on “Ballistic Textiles and Fire Fighter’s Suits” On 17th Sep 2016. The eminent speakers - Dr Xiaogang Chen, CText FTI, The University of Manchester, U.K and Prof V.K.Kothari, IIT Delhi delivered very useful presentation on Ballistic Textiles and Fire Fighter Suite respectively. This seminar provided ideal opportunity to understand manufacturing process as well as quality requirements of Ballistic Textiles and Fire fighters suite.

NITRA Technical Campus celebrates “Vishwakarma Pooja”

NITRA Technical Campus celebrated “Vishwakarma Pooja” on 17th September 2016 in Mechanical Workshop lab. Faculty/staff members and students participated in the Pooja.

Guest Lecture on “Ethical Hacking & Cyber Security and Internet of Things”

Department of Computer Science & Engineering organized Guest Lecture by Mr. Sangeet Chopra, Co-founder, Cyber Cure Technologies Pvt. Ltd, Ghaziabad for B.Tech. CSE 2nd to 4th Year students on 22.09.2016. The topic was "Ethical Hacking & Cyber Security and Internet of things ". He discussed about the new technology and security.

Eminent Industrialists Grace NITRA’s 13th Convocation

NITRA’s 13th Convocation Ceremony was held on Friday, 23rd September 2016 at NITRA, Ghaziabad. Sh. Sanjay Jain, newly elected Chairman NITRA and MD, TT Ltd., Sh. R. K. Jain, Immediate Past Chairman NITRA and CMD, Pasupati Spinning & Weaving Mills, Sh. R.L. Nolkha, CMD, Nitin Spinners Ltd and Past Chairman NITRA and other eminent industrialists were present.

Dr. Arindam Basu, DG, NITRA formally welcomed the guests. Sh. R. L. Nolkha opined that the availability of skilled manpower for textile industry is quite inadequate hence the training programs offered by NITRA are very useful for the industry. Sh. Sanjay Jain, in his key-note address, advised the young students to become hardworking and quick learner. He also encouraged the students to think out of the box and do things in innovatively different ways. Total 175 students from regular, distance learning and PG Diploma programs were awarded certificates and medals.

NITRA Technical Campus hosts Intra-college Debate Competition “Parivartan'16”

The Intra-college Debate Competition Parivartan'16 was held on Saturday, 1st October 2016 at NITRA Technical Campus. Twenty four students participated in the first round of Group Discussion on the topic Impact of GST Bill. The selected finalists were made to speak on the motion “Freedom of Speech is misused in India.” Rupesh Sharma of CSE (4th yr.) emerged as the winner. Satyam Pandey of CSE (3rd yr.) and Harendra Kr. Ray of TT (4th yr.) finished as 1st and 2nd runner-up, respectively.

NITRA Technical Campus organizes Techno-Science Quiz 2016

Techno-Science Quiz 2016 was organized at NITRA Technical Campus on 15th October 2016 on the eve of birth anniversary of Dr. A.P.J. Abdul Kalam. About 150 students participated with great enthusiasm.

Hon’ble Sh. Ajay Tamta, Minister of State for Textiles motivating NITRA, visits twice in two months

Hon’ble Sh. Ajay Tamta, Minister of State for Textiles, Govt. of India visited NITRA Campus at Ghaziabad on 3rd August 2016. He was accompanied by Ms. Geeta Narayan, Joint Secretary, Mr. R.K. Vashist, Under Secretary and other officials from the Ministry of Textiles. They visited the Pilot plant, Centre of Excellence Laboratory, Physical and Chemical laboratories and other infrastructural facilities at NITRA. The Hon. Minister interacted with the students undergoing training on various Skill Development Programs at NITRA and also with the students of NITRA Technical Campus. During the visit he also had detailed discussion with NITRA scientists about the research works carried out by them and suggested a few areas where NITRA should conduct research activities.

The Minister visited the campus again on 9th September 2016 to see the progress of the project and had detailed discussion on future plans of the project. The project is on the extraction of textile grade fibres from pine needles which are available in abundance in Uttarakhand and Himachal Pradesh.

Mr. Sanjay Kumar Jain, Managing Director, TT Limited, elected as NITRA’s new Chairman

Mr. Sanjay Kumar Jain, Managing Director, TT Limited, was elected as Chairman, Council of Administration, Northern India Textile Research Association (NITRA), the pioneering textile research & development organization in the country. NITRA elected its new leadership team in its 40th AGM held on 23rd September 2016 at NITRA Campus, Ghaziabad. Sh. S.K. Kapoor, MD, Surya Processors Ltd. was elected as Dy. Chairman. Mr. R.K. Jain, the outgoing Chairman handed over the baton to the new team. While taking over the charge, the newly appointed Chairman profusely thanked the outgoing Chairman for his invaluable guidance that had helped NITRA grow during his tenure.

Sports Meet 2016 at NITRA Technical Campus

NITRA Technical Campus organized its 3-day intra-college annual Sports Meet 2016 during 19-21 October, 2016 at NITRA Technical Campus (NTC) Campus. Five categories of sporting events such as, cricket, volleyball, badminton, kho-kho, and chess are

included in this year's sports meet. About 300 students from various branches have participated. Dr. Arindam Basu, DG, and other senior faculty members distributed the prizes in the closing ceremony.

NITRA's Presentation at Workshop on "Common Effluent Treatment Plant (CETP)" for Ajrakhpur Block Printing Cluster, Bhuj

Ministry of Textiles, Govt. of India through Handicraft Mega Cluster Mission (HMCM) has taken initiatives to support the processing units of Ajrakhpur, Bhuj, in funding the upgradation project of the existing CETP. NITRA, being assigned the task, prepared the DPR suggesting a treatment scheme based on sustainable technology and integrated with water reclamation.

In this context, a workshop was organized by HMCM and NITRA on 9th November 2016 at Ajrakhpur, Bhuj. Shri Abhijit Pal, Officiating Director, NITRA made a presentation on the proposed treatment scheme to all the stake holders i.e. the CEO of HMCM, Office of DC Handicraft, KHAMIR (NGO working for this handicraft cluster in Bhuj) and others. The members of the Ajrakhpur Hastkala Vikas Sansthan agreed to go ahead with the proposal.

Prestigious Scholarship for NITRA Technical Campus (NTC) Students

It is a matter of great pride that two of NITRA Technical Campus (NTC) students, Mr. Gaurav Kumar Singh (Branch: Textile Chemistry 2nd year) and Mr. Susheel Kumar Yadav (Branch: Textile Technology 2nd year) have been awarded prestigious scholarship awarded by TT Group and Saria Charitable Trust, respectively. Mr. N.H. Jain, National Vice President, The Textile Association (India), Mr. Sanjay Jain Managing Director, TT LIMITED and J.P. Saria of Saria Charitable Trust has formally handed over the scholarships to the students on 23rd November, 2016 during Seminar being organized by TIT&S, Bhiwani in association with TAI-Delhi & Vision Communication at NSIC, Okhla, Delhi during YFA Trade Show. 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.

Workshop on "Scientific Selection and Recruitment of Workforce" at NITRA

One day workshop was organized on "Scientific Selection and Recruitment of Workforce" at NITRA on 18th November, 2016 for the HR & technical personnel of M/s. Ginni Filaments Limited and their other units of Haridwar and NOIDA. The participants have taken lot of interest and appreciated the workshop very much.

NITRA Scientist presents paper on "Manufacture, Properties and Applications of Sewing Threads"

Mr. R.K. Gaur, Assistant Director, NITRA presented a paper on "Manufacture, Properties and Applications of Sewing Threads" in the Continuing Education Program (CEP) on 'Latest Trends in Development of Technical Textiles' on Nov 25, 2016 at DMSRDE, DRDO Kanpur. Participants have intensive discussions and presentation was appreciated.

Training Program on Quality Evaluation of Textiles

A Training Program on Quality Evaluation of Textiles was conducted at Logistics Training School, INS- Hamla (Mumbai) for Navy officials by Sh. Sanjeev Shukla, PSO NITRA and Sh. Maheshwar Singh, SSO NITRA on 29.11.16 & 30.11.16. Around 30 Navy officials participated in the program and program was very much appreciated.

NITRA publishes useful technical books for the industry

NITRA has published the following three very useful technical books in order to benefit the professionals engaged in textile and apparel industry:

Failure Mode and Effect Analysis (FMEA) – An essential tool for textile and apparel industry to survive and grow (Revised Second Edition January 2017). The book lays emphasis on the concept of prevention and describes about how to implement FMEA in the organization.

Glass Threads – A part of NITRA TABLET Series (Revised Second Edition November 2016). This booklet describes about Types of glass fibres, Glass fibre production, E glass and S glass, Characteristics of glass fibre and glass threads, Glass textiles – precautions etc.

Zippers – A part of NITRA TABLET Series (Revised Second Edition November 2016). This booklet describes various aspects of zipper like Anatomy of zipper, Types of zipper, Function of a zipper, Standards on zippers, Selection of zipper, Applications of zipper, Zipper testing methods etc.

The above publications are edited by Dr. Arindam Basu and compiled by NITRA scientists.

Research Advisory Committee (RAC) Meeting at NITRA, Ghaziabad

Research Advisory Committee (RAC) Meeting was held on December 3, 2016 at NITRA, Ghaziabad. Meeting was chaired by Shri S.K. Kapoor, Chairman – RAC & CMD Surya Processors Ltd. Dr. Arindam Basu, Director General, NITRA welcomed the Chairman and RAC members.

NITRA scientists presented their R&D work before RAC members who were from industry and academia. Total eleven R&D projects were presented. Experts have intensive interactions and gave opinions, suggestions and ideas on the research work done by NITRA scientists. Dr. Basu, DG assured the members that suggestions given by experts will be implemented. Shri Abhijit Pal, Officiating Director, NITRA, thanked the Chairman - RAC and other members.

Awareness Program on Digital India

The Computer Science & Engineering division organized an awareness program on Digital India on December 20, 2016 which was attended with full enthusiasm by about 44 students of NITRA. They were informed about the benefits of making India Digital. They were also encouraged to embrace technology in order to make this mission successful.

Grand Success for NITRA Technical Campus Students in B.Tech.

3 students feature among top 10 university rankers in Textile Group.

It is a matter of great delight that three pass-out students of Textile Technology branch of NITRA Technical Campus have secured positions among the top 10 AKTU rankers in Textile group.

The following students from 2012-16 batch namely Raj Kumar (80.80%), Nashrah Himayat Kidwai (79.92%) and Abhay Sharma (79.88%), have secured the 4th, 7th and 8th positions respectively.

This outstanding performance shows the excellent quality of teaching in NITRA Technical Campus as the college has achieved this great feat only with its very first pass-out batch. The college management and its faculty members congratulate these students for making the institute proud.

NITRA organizes Awareness Program on ISO 9001:2015

NITRA organized a training program on “Awareness on ISO 9001:2015” which was conducted by Shri Anuarag Gupta, Director Maadhyam, Ghaziabad at NITRA, Ghaziabad on January 11, 2017 for its officers and staff. Program was very interesting and participants had intensive interactions with the faculty.

Kenyan Delegation visits NITRA

A Kenyan Delegation from Ministry of Trade, Industrialization & Cooperatives, Govt. of Kenya visited NITRA on 27th Jan 2017. The visiting team was accompanied by the representatives of IL&FS. Kenyan delegates appreciated the infrastructure and the expertise available with NITRA. They also discussed the areas where NITRA can help the Kenyan textile industry.

NITRA, NISTI and Institute of Engineers (Delhi Chapter) organize a presentation on “Personal Protection Textiles”

NITRA, NISTI (The North India Section of the Textile Institute, Manchester) and Institute of Engineers (Delhi Chapter) organized a presentation by Prof. Subhash C. Anand (Institute for Material, Research and Innovation; University of Bolton UK), on “Development of an Advanced Personal Protection Equipment Garments for Protection Against Slashes” at Institute of Engineers, Delhi Committee Room on 1st of Feb. 2017.

Participants from the industry and academia took lot of interest and have intensive interactions with the expert.

NITRA, NPTI and BBSB Engineering College jointly organizes 3 days’ workshop on Energy Conservation

Northern India Textile Research Association (NITRA), National Power Training Institute (NPTI) and Baba Banda Singh Bahadur Engineering College (BBSBEC) jointly organized 3 days’ workshop on Energy Conservation from Feb.27 to March 1, 2017 at BBSB Engineering College. Thrust was upon the conserving the energy and promoting the use

of natural resources which are the needs of today. Program was very much appreciated by the participants and they had intensive interactions with the faculties.

57th Joint Technological Conference by ATIRA, NITRA, SITRA & BTRA

57th Joint Technological Conference jointly organized by ATIRA, NITRA, SITRA & BTRA on 17th & 18th February, 2017 at BTRA, Mumbai. NITRA Scientists presented four very important papers that deal with the current need of the industry.

NITRA Embraces Green Power, Goes the Solar Way

Today 'Solar Energy' has established itself as one of the most potential non-conventional energy resources to steadily replace conventional energy sources such as the hydro electricity and thermal power, as the production of conventional energy is not likely to meet future electricity demand of the world. The availability of natural fuel such as coal, gas, oil is limited and also the power generation using that fuel creates pollution into the atmosphere. There are plenty of other environment friendly sources such as sunlight and air which are rarely being used to generate power. Many organizations have already started thinking about the alternative energy resources and embracing solar energy. Besides being cost effective the technology also saves the planet as it is complete pollution-free.

In view of the above scenario and also for promoting 'Green Power', Northern India Textile Research Association, popularly known as NITRA, Ghaziabad, has decided to install Grid-connected Roof-top Solar Power Plant at its building. The plant is estimated to be fulfilling about 60%-70% of NITRA's total power consumption in first phase. This effort, in turn, will also reduce the pollution which is quite prevalent in NCR and would help NITRA comply with its social responsibility. In addition to that, this move will encourage the textile and garment units to install solar power plant, many of those have already installed in their units.

NITRA conducts Training Program on Electrical Safety at Chenab Textile Mills, Kathua

Engineering Team of NITRA conducted one day Training Program on Electrical Safety at Chenab Textile Mills, Kathua on March 24, 2017. Program was attended by more than thirty managers, engineers, supervisors. The program has been very educative and full of practical applications. Participants had intensive interactions with faculty. Program was very much appreciated by the management.

Union Textile Minister Smt. Smriti Zubin Irani inaugurated the foundation stone for the Common Effluent Treatment Plant (CETP), designed by NITRA at Ajrakhpur, Bhuj (Gujarat) on 18th March 2017

The 150 KLD CETP project has been assigned to NITRA for implementation by Ministry of Textiles through Handicrafts Mega Cluster Mission (HMCM). NITRA designed a modern treatment scheme integrated with water reclamation for the CETP. The project includes 6 months post-commissioning hand-holding support to be provided by NITRA. The Brief outline/benefits of the project are:

- Capacity enhancement: Plant will be designed for 150 KLD which will be expandable up to 450 KLD effluent treatment capacity for the block printing cluster in Ajrakhpur will increase from present level of 50 KLD to 200 KLD
- Environment protection: will restrict open discharge of effluent - curtail environmental hazards
- Ground water saving : use of lesser water as treated water is recyclable for use in washing & other operations
- Energy conservation : reduction in ground water lifting through pumping
- Investment opportunity : increase in cluster production / more units to set up in the area - attract investment & buyers
- Financial and economical gain : increase in turnover, creation of employment opportunities & overall business growth.

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 2016-2017:

1. Liaison visits/survey carried out (no. of units covered)	-	3949
2. Technical assistance/consultations provided	-	181
3. Designs developed	-	232
4. Samples tested	-	2112
5. No. of persons trained	-	877
6. Exhibitions/seminars conducted	-	231

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 three centres. These centres are:

1. Meerut (Uttar Pradesh)
2. Panipat (Haryana)
3. Bhilwara (Rajasthan)

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	Meerut	Panipat	Bhilwara	TOTAL
No. of samples tested	191	877	396	1464

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. CAD centre at Tanda is functioning with financial support of Uttar Pradesh Government. 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	53	01	161	02	217

At Power Loom Service Centre, Gorakhpur, Computer aided 'Selvedge Monogram' Software has been installed and related services are open for industry.

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 2016-17 a total of 15,607 powerloom workers were insured through NITRA PLCs.

Infrastructure facilities for training, testing etc. are being established at PLSC, Varanasi.



Union Textile Minister Smt. Smriti Zubin Irani inaugurates the foundation stone laying for the Common Effluent Treatment Plant (CETP) designed by NITRA at Ajrakhpur, Bhuj (Gujarat) on March 18, 2017



Dr. Arindam Basu (extreme right), Director General, NITRA and Sh. Abhijit Pal (4th from left), Officiating Director, NITRA at the foundation stone laying ceremony for the Common Effluent Treatment Plant (CETP) designed by NITRA at Ajrakhpur, Bhuj (Gujarat)



Dr. Arindam Basu, Director General, NITRA, extends warm welcome to hon'ble Sh. Ajay Kumar Tamta, Minister of State for Textiles, Gol on August 3, 2016, as Dr. M.S. Parmar, Jt. Director (A) looks on.



Hon'ble Sh. Ajay Kumar Tamta, Minister of State for Textiles, Gol, visits Spinning Section of the Pilot Plant at NITRA



The 40th Annual General Meeting in progress at NITRA on September 23, 2016



At NITRA's 13th Convocation Ceremony: (L-R) Dr. Arindam Basu, Director General, NITRA, Sh. Sanjay Kr. Jain, Chairman, NITRA Council of Admn., Sh. R.K. Jain & Sh. R.L. Nolkha, Former Chairmen, and Sh. Abhijit Pal, Officiating Director, NITRA



Sh. Sanjay Kr. Jain, Chairman, NITRA honours a student at NITRA's 13th Convocation. Also seen are (L-R) Dr. Arindam Basu, Director General, NITRA and Sh. R.K. Jain & Sh. R.L. Nolkha, both former Chairmen, NITRA



A section of students and guests present at the 13th Convocation of NITRA on September 23, 2016

ANNEXES

MEMBERS OF THE COUNCIL OF ADMINISTRATION 2016-2017

1. Shri Sanjay Kumar Jain
(Chairman)
Managing Director
T.T. Ltd.
879 Master Prithvi Nath Marg
Opp. Ajmal Khan Park, Karol Bagh
New Delhi - 110 005
2. Shri S.K. Kapoor
(Dy.Chairman)
Managing Director
Surya Proessors Pvt. Ltd.
619, Bistrakh Road,
Village Chhapraulla,
Distt. Ghaziabad - 201 001
3. Shri Ramesh Kumar Jain
Chairman-cum-MD
Pasupati Spg & Wvg Mills Ltd.
127, 128 Tribhuvan Complex
Nehru Place, Mathura Road
Ishwar Nagar
New Delhi - 110 065.
4. Shri Riju Jhunjunwala
Joint Managing Director
Rajasthan Spg. & Wvg. Mills Ltd.
Bhilwara Towers
A-12, Sector 1, Noida - 201 301
5. Shri R.L. Nolkha
Chairman
Nitini Spinners Ltd.
16-17 KM Stone, Chittor Road
Hamirgarh – 311 025
Bhilwara (Rajasthan)
6. Shri Rajeev Jain
President
Sutlej Textile & Industries Ltd.
(Unit: Rajasthan Textile Mills)
Lotus Corporate Park, 'E' Wing
5th/6th Floor, 185/A, Graham Firth
Compound, Near Jay Coach,
Goregaon (East), Mumbai-400063
7. Shri Phalguni Mukhopadhyay
President & Chief Technical Officer
RSWM Limited
P.B. No.28, Village –Kharigram
Gulabpura – 311 021 (Bhilwara).
8. Shri G. Balasubramanian
Secretary General
NITMA
PHD House, Sector 31-A
Chandigarh – 160 031

- | | | |
|-----|-----------------------------------|--|
| 9. | Shri Sanjay Batra | Head-Sales North India
Rieter India Pvt. Ltd.
SCO 146-147, Sector 34-A
Chandigarh – 160022 |
| 10. | Shri Suresh Puri | CEO, Trident Limited
Sanghera Complex
Raikot Road
Barnala – 148101 (Punjab) |
| 11. | Shri P.C. Vaish | Chairman & Managing Director
NTC Ltd., Core IV,
Scope Complex
7, Lodhi Road,
New Delhi – 110003 |
| 12. | Shri Vivek Plawat | Executive Director (Project)
NTC Ltd., Core IV, Scope Complex
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New Delhi – 110003 |
| 13. | Director General | Council of Scientific and
Industrial Research
Anusandhan Bhawan
2, Rafi Marg
New Delhi – 110 00 |
| 14. | Addl. Secretary &
Fin. Advisor | Ministry of Textiles, Govt. of India
Udyog Bhawan
New Delhi – 110011 |
| 15. | Joint Secretary (Cotton) | Ministry of Textiles, Govt. of India
Udyog Bhawan
New Delhi – 110011 |
| 16. | Joint Secretary (R&D) | Ministry of Textiles, Govt. of India
Udyog Bhawan
New Delhi – 110011 |
| 17. | The Textile Commissioner | Ministry of Textiles
Office of the Textile Commissioner
48, Vithaldas Thakarsee Marg
Nishta Bhawan (New C.G.O. Bldg.)
Mumbai – 400 020 |
| 18. | Shri R. Rajendran | Chairman, TMMA (I)
Director Finance
Lakshmi Machine Works Ltd.
Perianaickenpalayam
Coimbatore – 641 020 |

19. Dr. Arindam Basu
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NITRA
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Ghaziabad – 201 002
20. Director
Ahmedabad Textile Industry's Research
Association,
P.O. Ambawati Vistar
Ahmedabad – 380 015 (Gujarat)
21. Dr. Prakash Vasudevan
Director
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22. Dr. Anjan K. Mukhopadhyay
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23. Shri Vijay Mathur
Addl. Secretary General
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25. Shri Vinoy Job
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26. Shri Dinesh Nolkha
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27. Shri Ashish Bagrodia
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Winsome Textile Industries Ltd
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28. Shri Rajeev Mehani
Vice President
Corporate Technical Services Deptt.
Corporate Office
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32. Dr. J.V. Rao
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33. Shri R.C. Kesar
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35. Dr. K.K. Goswami
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36. Shri Anup Banerjee
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(Unit Orient Syntex)
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37. Shri Ashok Kapoor
General Manager
Nahar Spinning Mills Ltd.
Nahar Tower, 373 Indl. Area-A
Ludhiana – 141 003 (Punjab)
38. Shri L.N. Jhunjunwala
LNJ Bhilwara Group
Bhilwara Towers
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39. Shri Sharad Jaipuria
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40. Shri Shishir Jaipuria
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41. Dr. Rikhab Chand Jain
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42. Shri Raj Kumar Jain
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43. Chairman-cum-MD
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**MEMBERS OF THE FINANCE & ADMINISTRATIVE
SUB-COMMITTEE 2016-2017**

- | | | |
|----|--------------------------------------|--|
| 1. | Shri S.K. Kapoor
(Chairman - FAC) | Managing Director
Surya Proessors Pvt. Ltd.
619, Bisrakh Road,
Village Chhapraulla,
Distt. Ghaziabad - 201 001 |
| 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 Riju Jhunjunwala | Joint Managing Director
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Bhilwara Towers
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| 5. | Shri R.L. Nolkha | Chairman
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Bhilwara (Rajasthan) |
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| 8. | Secretary General | CITI, 6 th Floor, Narain Manzil
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| 9. | Joint Secretary (Cotton) | Ministry of Textiles, Govt. of India
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| 17. | Shri P.C. Vaish | Chairman & Managing Director
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22. Shri Phalguni Mukhopadhyay President & Chief Technical Officer
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**MEMBERS OF THE RESEARCH ADVISORY COMMITTEE
2016-2017**

- | | | |
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| 1. | Shri S.K. Kapoor
(Chairman - RAC) | Managing Director
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619, Bisrakh Road,
Village Chhapraulla,
Distt. Ghaziabad - 201 001 |
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| 6. | Dr. Arindam Basu | Director General
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| 8. | Shri Ashok Mishra | Chairman-cum-Managing Director
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9. Dr. Abhay Bansal
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11. Dr. A. Das
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General Manager (R&D)
(Rajasthan Spg. & Wvg. Mills Ltd.,
Unit : Banswara), LNJ Bhilwara Group
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13. Shri Arvind Yadav
Chairman cum Managing Director
Arikav Textiles Ltd.
C-4, Site-IV, UPSIDC Indl. Area
Kasana Road, Greater Noida
Gautam Budh Nagar (U.P.)
14. Dr. Amit Rawal
Associate Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi 110 016
15. Dr. Ashwini Kumar Agrawal
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi 110 016
16. Dr. Abhijit Majumdar
Associate Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi 110 016
17. Lt. Commander Arun Samal
Dy. Director (S&D) for Principal Director
Integrated Headquarter
Ministry of Defence (Navy)
Directorate of Clothing & Victualling
D-II Wing, Sena Bhawan
New Delhi – 110 011

18. Shri B.B. Bharti
Joint Textile Commissioner (T)
Office of the Textile Commissioner
48, Vithaldas Thakarsee Marg
Nishta Bhawan (New C.G.O. Bldg.)
Mumbai – 400 020
19. Dr. B.K. Behera
Professor & Head
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi – 110 016
20. Dr. Bhuvanesh Gupta
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi – 110 016
21. Dr. B.S. Butola
Associate Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi – 110 016
22. Dr. B.S. Yadav
General Manager
Mahima Fibres Pvt. Ltd.
406, Corporate House, 4th Floor
Opp. Jhabua Tower, 169 RNT Marg
Indore – 452 001 (M.P.)
23. Shri C.R. Prayag
Officiating Director
ATIRA
P.O. Ambawati Vistar
Ahmedabad – 380 015 (Gujarat)
24. Dr. Deepti Gupta
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi – 110 016
25. Shri Gautam Nair
Managing Director
Matrix Clothing Pvt. Ltd.
Khandsa Road, Vill. Mohammadpur
Gurgaon – 122 001 (Haryana)
26. Shri H.R. Sharma
Executive Director
Orient Syntex
Prop. APM Industries Ltd.
SP-147, RIICO Industrial Area,
Bhiwadi, Distt. Alwar-301019 (Raj.)

27. Shri I.M.J.S. Siddhu
President
Vardhman Textiles Ltd.
Phagwara Road
Hoshiarpur -146 001 (Punjab)
28. Shri Jagvart Singh
Vice President (Processing)
SPL Limited
Plot No. 21, Sector 6
Faridabad (Haryana)
29. Dr. J.V. Rao
CEO
Textile Skill Sector Council
CITI
6th Floor, Narain Manzil
23, Barakhamba Road
New Delhi – 110 001
30. Dr. Kavita Gupta
Textile Commissioner
Office of the Textile Commissioner
48, Vithaldas Thakarsee Marg
Nishta Bhawan (New C.G.O. Bldg.)
Mumbai – 400 020
31. Dr. Prakash Vasudevan
Director
SITRA
13/37, Avanashi Road
Coimbatore Aerodrome
Coimbatore – 641 014 (T.N.)
32. Shri M.K. Mehra
Director
Okhla Garment and Textile Cluster
(OGTC), Y-29, Okhla Indl. Area
Phase – 2
New Delhi – 110 020
33. Dr. M.P. Aggarwal
Chairman cum Managing Director
Shri Lakshmi Cotsyn Ltd.
19/X-1, Krishna Puram, G.T. Road
Kanpur – 208 007 (U.P.)
34. Dr. Mangala Joshi
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi – 110 016
35. Dr. Manjeet Jassal
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi – 110 016

36. Dr. N.N. Mahapatra
Vice President – Business Development
Colourant Ltd.
B-5/104, Goyal Intercity
Nr SAL Hospital, Drive-in Road
Ahmedabad – 380 054
37. Smt. Pushpa Subrahmanyam
Additional Secretary
Ministry of Textiles, Govt. of India
Udyog Bhawan
Dr. Maulana Azad Road
New Delhi – 110 011
38. Shri Prasanta Kumar Deka
Vice President – Sales & Marketing
Rieter India Pvt. Ltd.
Karegaon Bhima
Pune
39. Shri P.M.S. Uppal
Managing Director
Pee Empro Exports Pvt. Ltd.
504, Sky Line House
85, Nehru Place
New Delhi- 110 019
40. Dr. Rikhab Chand Jain
Chairman
T.T. Limited
879, East Park Road
Master Prithvi Nath Marg
Opp. Ajmal Khan Park,
Karol Bagh
New Delhi – 110 005
41. Shri R.K. Vij
Advisor
Indo Rama Synthetics (I) Ltd.
20th Floor, DLF Square
DLF Phase-2, NH-8
Gurgaon – 122 002 (Haryana)
42. Shri Rajeev Jain
President
Sutlej Textile & Industries Ltd.
(Unit: Rajasthan Textile Mills)
Lotus Corporate Park, 'E' Wing
5th/6th Floor, 185/A, Graham Firth
Compound, Near Jay Coach,
Goregaon (East), Mumbai-400063

43. Shri Raj Kumar Jain
Zonal Secretary – FOHMA
(Central Zone)
Managing Director
Zonac Knitting Machines Pvt. Ltd.
D-1, D-2, Site B
Surajpur Industrial Area,
Greater Noida – 201 306
Distt. Gautam Budh Nagar
44. Shri R.N. Toshniwal
Chairman cum Managing Director
Banswara Syntex Ltd.
5th Floor, Gopal Bhawan
199, Princess Street
Mumbai – 400 002
45. Dr. R.S. Rengasamy
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi – 110 016
46. Dr. Ravishankar Chattopadhyaya
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi 110 016
47. Shri R.C. Kesar
Director General
Okhla Garment and Textile Cluster
(OGTC), Y-29, Okhla Indl. Area
Phase-2
New Delhi-1110 020
48. Dr. R. Alagirusamy
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi 110 016
49. Shri Sanjay Gulati
Managing Director
Growel Impex Pvt. Ltd.
E-16, Greater Kailash, Part-II
New Delhi- 110 048
50. Shri Shishir Jaipuria
Managing Director
Ginni Filaments Ltd.
H-6, Sector-63
Noida – 201301 (U.P.)

51. Shri Satish Bagrodia
Managing Director
Winsome Textile Industries Ltd.
SCO 144-145, Sector-34A
Chandigarh – 160 022
52. Shri S.K. Khandelia
Group President
Sutlej Textile & Industries Ltd.
(Unit: Rajasthan Textile Mills)
Lotus Corporate Park, 'E' Wing
5th/6th Floor, 185/A, Graham Firth
Compound, Near Jay Coach,
Goregaon (East), Mumbai-400063
53. Dr. S.M. Ishtiaque
Professor
Deptt. of Textile Technology
Indian Institute of Technology
Hauz Khas
New Delhi 110 016
54. Shri S.P. Oswal
Chairman cum Managing Director
Vardhman Spinning Mills
208, Surya Kiran Bldg.
Kasturba Gandhi Marg
New Delhi
55. Shri S.S. Sajal
President
Banswara Syntex Ltd.
Indl. Area, Dohad Road
Banswara – 327 001 (Raj.)
56. Dr. Vijay Ramakrishnan
Head (TRADC)
Textile Research & Application
Development Centre, Birla Dham
Kharach, Kosamba (R.S.)
Distt. Bharuch – 394 120 (Gujarat)
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. Purna 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

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.

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. Unit in Tamil Nadu

1. K.G. Denim

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	-	08	Rajasthan	-	19
Gujarat	-	02	Tamil Nadu	-	01
Haryana	-	19	Uttar Pradesh	-	32
Himachal Pradesh	-	04	West Bengal	-	01
Jammu & Kashmir	-	02	Overseas :		
Karnataka	-	01	Nepal	-	02
Madhya Pradesh	-	04	Thailand	-	01
Maharastra	-	02			

Total No. of Member Units - 120

STAFF MEMBERS
(As on 31.03.2017)

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.
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
Mr. Rahul Kumar Guglani*	S.S.O.	Dip. in Textile Processing, B.Tech.(Textile Chemistry), M.Tech. (Fibres & Textile Processing Tech.)
Ms. Shweta Chauhan*	Scientific Officer	B.Tech. (Manmade Fibre Tech.), M.Tech. (Fibre Sc.&Tech.)
Ms. Nidhi Sisodia*	Project Officer	M.Sc., M.Tech. (Text.Chem.)
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	High School, ITI
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	S.T.A.	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
Mr. Paurush Godhar	J.S.O.	B.Tech. (Electronics Instrumentation & Control), BEE Cert. Energy Auditor
Mr. Raj Kumar Saini	Asstt. Engineer (Elect.)	Diploma (Electrical), BEE Cert. Energy Manager
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

NAME	DESIGNATION	QUALIFICATION
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
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.
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. Shiv*	Project Officer	B.Tech. (Fashion & Apparel Engg.), Dip. in Text. Tech.
Mr. Punit*	Project Officer	B.Tech. (Fashion & Apparel Engg.)
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. S.K. Rajput	Asstt. Prof. (Electrical & Electronics)	B.Tech. (Electrical Engg.), M.Tech. (Energy Studies)
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)
Ms. Richa Singh*	Asstt. Prof. (CSE)	B.Tech. (IT), M.Tech. (CS)

SUPPORTING STAFF (TECHNICAL)

Physics & Quality Evaluation Division

<i>Jr. Investigator:</i> Mr. G.C. Bajpai Mr. R.P. Tripathi	<i>Peon:</i> Mr. Ranveer Singh	<i>Laboratory Assistant:</i> Mr. Jaya Krishna Rath* Ms. Shradha Srivastava * Ms. Supriya Singh* Mr. Kamalraj*	<i>Trainee:</i> Mr. Ashish Yadav*
--	-----------------------------------	---	--------------------------------------

Engineering Division

<i>Electrician:</i> Mr. Sandeep Sharma*	<i>Electrical Trainee:</i> Mr. Sachin Kumar*
--	---

Polymer & Technical Textile Division

<i>Jr. Investigator:</i> Mr. Harendra Singh	<i>Lab Attendant:</i> Mr. Om Pal Singh	<i>Lab Assistant:</i> Mr. Mayank Kumar*
--	---	--

Environmental Engineering Division

<i>Jr. Investigator:</i> 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*

Research Assistant:

Ms. Vasundhara Verma*

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*

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

Admn./Accts. Asstt.:

Mr. Alakiri Vivek*

Accounts

Accounts Assistant:

Mr. Manjeet Singh Sachdeva*

Trainee:

Mrs. Santoshi Rana*

Library:

Draughtsman:

Mr. M.K. Tomar

Directorate

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

NITRA Technical Campus:

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

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, Bhilwara
Mr. D.K. Rai	T/F	ITI	PLSC, Gorakhpur
Mr. B.K. Mohapatra*	Resident Manager	B.Tech. (Text. Engg.)	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, EXPIRY OF CONTRACTS AND DEATH DURING THE PERIOD
APRIL 2016 TO MARCH 2017**

S.No.	NAME	DIVISION	DESIGNATION
A) Resignations:			
1.	Mr. C.B. Chourasia	Env. Engg.	Assistant Director
2.	Ms. Shikha Mishra*	PQE	Laboratory Asstt.
3.	Mr. T.H. Ansari	PLSC, Varanasi	CAD Assistant
4.	Mr. Gaurav Chandil*	NTC	Asstt. Professor-Electronics
5.	Mr. Keshav Jindal*	NTC	Asstt. Professor-CSE
6.	Ms. Priyanka Srivastava*	PQE	Laboratory Asstt.
B) Expiry of Contracts:			
1.	Dr. M.S. Raizada*	NTC	Director-Academics
2.	Mr. Gaurvav Agarwal*	NTC	Asstt. Professor-CSE
3.	Mr. Vimal Chaturvedi*	NTC	Asstt. Professor-Mech.Engg.
4.	Mr. Sachin Kumar Bhati*	NTC	Peon
C) Death:			
1.	Mr. Shiv Kumar	PLSC, Bhilwara	Lab Attendant

*On contract.

RESEARCH PAPERS PUBLISHED AND PRESENTED

S.No.	Title	Author(s)	Publication/Place	Date
1.	Protective works wear for workers working in cement industry	M.S. Parmar Shweta Saxena Vasundhara Verma	Textile Value Chain, Vol.5, Issue-3, pp -23.	March, 2017
2.	Seamless mobility of IP Connectivity of MANET in Disaster Area	A.P. Srivastava Payal Kansal	International Conference on Technological and Managerial Strategies for Next Generation Transformation	18 th March, 2017
3.	Anatomy of Android Application	A.P. Srivastava Payal Kansal Swati Tyagi	International Conference on Technological and Managerial Strategies for Next Generation Transformation	18 th March, 2017
4.	A Study of Work Practices in Indian Garment Factories	Vivek Agarwal M.M. Tiwari Shweta Saxena Kushagra Prakash M.K. Bansal	57 th Joint Technological Conference at BTRA Mumbai	17 th -18 th Feb., 2017
5.	Electronic drape tester based on image analysis technique	Arindam Basu Sanjeev Shukla Krishan Dewan Paurush Godhar	57 th Joint Technological Conference at BTRA, Mumbai	17 th -18 th Feb., 2017
6.	Development of smoothness tester for finished fabrics	M.S. Parmar Nidhi Sisodia Maheshwar Singh Vasundhara Verma	57 th Joint Technological Conference at BTRA, Mumbai	17 th -18 th Feb., 2017
7.	Development of work wear for workers working in cement industry	M.S. Parmar Shweta Saxena Vasundhara Verma Satpriya Dash	57 th Joint Technological Conference at BTRA, Mumbai	17 th -18 th Feb., 2017

S.No.	Title	Author(s)	Publication/Place	Date
8.	Extraction of corn husk fibre for textile usage	M.S. Parmar et.al.	IOSR Journal of Polymer and Textile Engg., Vol.4, Issue-1	Jan.-Feb., 2017
9.	“Protective Clothing”, Program on Enhancing Technical Competence in sourcing and supply of textiles for Navy officers	M.S. Parmar	DFT Department, NIFT, New Delhi	9 th Jan., 2017
10.	Oil and Gas Industry: Review of fire hazards and protective term	Nooper Sonee Chitra Arora M.S. Parmar	3 rd International Conference on Innovative Trends in Science, Engi- neering & Mana- gement, YMCA, Connaught. Place, New Delhi	7 th Jan.,2017
11.	Comparative analysis of flammability behavior of FR viscose cool blended yarn fabrics	Nooper Sonee M.S. Parmar Chitra Arora	International Conference on Textile and Clothing; Present & Future Trends; organised by Dept. of Jute & Fibre Technology, University of Calcutta, India	3 rd -5 th Jan., 2017
12.	Washing Cycle : An Effortless way to UV Protection	Neha Singh S. Pant M.S. Parmar	Asian Dyer, p.36	Dec. 2016
13.	Perspective approach towards business intelligence framework in health care	Kavita Mittal S.K. Dubey B.K. Sharma	International Con- ference on Adv- ance Computing in Intelligent Enginee- ring (ICACIE, 2016) organized by CV Raman College of Engg.,Bhubaneswar, Odisha	21 st -23 rd Dec., 2016
14.	R & D in textiles & its importance in present scenario	Arindam Basu	Proc. of ITMF Annual Conference	Nov. 2016

S.No.	Title	Author(s)	Publication/Place	Date
15.	Electro conductive knitted structure : An overview	D.N. Pandey, Arindam Basu & P. Kumar	Proc. of Conference on Emerging Trends in Engineering & Technology, ITET, IIT Delhi	4 th -5 th Nov. 2016
16.	Manufacture, Properties and Applications of Sewing Threads	R.K. Gaur	Continuing Education Program (CEP) on 'Latest trends in Development of Technical Textiles' DMSRDE, DRDO Kanpur	25 th Nov. 2016
17.	Agro-residues: beyond waste, potential fibres for textile industry	Preeti Kaur Sachdeva Bhawna Chanana M.S. Parmar	Fibre 2 Fashion	Oct. 2016
18.	Energy audit in textile industry - A study with ring frame motor	Rajput S.K. et.al,	ICCCCM-2, IEEE Sponsored Conference, United College of Engg. & research, Allahabad collaboration with AIT, Bangkok	21 st -22 nd Oct. 2016
19.	Smart Textiles in Medical Protective Textiles	Arindam Basu	Annual Journal of Alumini Association TANTU	Sept. 2016
20.	Development of corn husk fabric using DREF spun yarn : A green initiative	Navneet Kaur Harshita Chaudhary M.S. Parmar	Colourage, pp.40	Sept. 2016
21.	Protective textiles - present scenario	Arindam Basu	Seminar on Technical Textiles, TANTU, New Delhi	Sept. 2016
22.	Energy analysis and Reduction in CO ₂ emission of PV (photo-voltaic) system Case Study	Rajput S.K. et.al,	AKGEC - EXCEL Journal of Mechanical Engg.	15 th -18 th Sept. 2016

S.No.	Title	Author(s)	Publication/Place	Date
23.	An analysis of 25 kWp roof-top photo-voltaic solar power plant for textile unit Case study	Rajput S.K. et.al,	MIT International Journal of Electrical and Instrumentation Engg., (ISSN: 2230-7648), 62-66	Aug. 2016
24.	Tools and techniques of data mining in education system for effective decision making.	Subhansh Vibhu Sudhanshu Maurya B.K. Sharma	International Journal of Advanced Research in Engineering Technology and Science, ISSN: 2394:2819, Vol.No.3 3, Issue-7, pp.36-44.	July, 2016
25.	Lecture on Ginning	Dr. Arindam Basu	Workshop for Ethiopian students, IIT Delhi	18 th May 2016
26.	Control of yarn count CV%	Dr. Arindam Basu	Workshop for Ethiopian students, IIT Delhi	27 th May 2016
27.	Mathematical modeling and simulation of solar photovoltaic array system - 2016	Rajput S.K. et.al,	IEEE sponsored International Conference, R.L. Jalappa Institute of Technology, Bangalore	6 th -7 th May, 2016
28.	Essential safety work wear in electroplating industry	Sugandha Sahni Rita Kant M.S. Parmar	UGC sponsored National Conference on Global challenges – Role of science & technology in imparting their solutions, TIT &S Bhiwani	23 rd -24 th Apr. 2016

TRAINING PROGRAMS, WORKSHOPS AND SEMINARS CONDUCTED

S. No.	Nature of Program	Venue	Division	No. of batches	No. of trainees
1.	Apparel Manufacturing and Merchandising	NITRA, Ghaziabad	Garment	1	46
2.	Apparel Design and Quality Control	NITRA, Ghaziabad	Garment	1	37
3.	Textile Technology and Management (DLP)	NITRA, Ghaziabad	Garment	1	26
4.	Apparel Manufacturing and Merchandising (DLP)	NITRA, Ghaziabad	Garment	1	23
5.	Quality Evaluation of Textiles and Garment (DLP)	NITRA, Ghaziabad	Garment	1	14
6.	Summer Training Program for College Students	NITRA, Ghaziabad	Garment, PQE, CQE, MPD(Wvg.)	1	49
7.	Training Program on Ethical Hacking and Cyber Security	NITRA Technical Campus, Ghaziabad	SDC	1	93
8.	Awareness Program on Digital India	NITRA, Ghaziabad	SDC	1	44
9.	Energy Audit Practical Training Program	Indian Railway Institute of Electrical Engg.	Engg.	5	122
10.	Training Program on Energy Audit	Banda Singh Bahadur Engg. College, Fatehgarh Sahib (Pb.)	Engg.	1	90
11.	Training Program on Electrical Safety	Chenab Textile Mills Ltd., Kathua (J&K)	Engg.	1	60

S. No.	Nature of Program	Venue	Division	No. of batches	No. of trainees
12.	Seminar on “Latest Trends in IT Industry”	HCL Centre, Ghaziabad	SDC	1	27
13.	Program on General Awareness on ISO/IEC : 17025:2005 (NABL) and Practices and Concepts of Uncertainty in Measurement	NITRA, Ghaziabad	Publication	1	26
14.	Program on Laboratory Management System and Internal Audit (ISO/IEC 17025:2005)	Textile Research & Application Development Centre (TRADC), Kharach	Publication & CQE	1	16
15.	Program on Manufacturing & Quality Evaluation of Textiles (Defence Textiles) for ITBP Officers	NITRA, Ghaziabad	PQE & CQE	1	15
16.	One day Career Counseling & Personality Development Program under UPSDM by District Programme Management Unit (DPMU), Ghaziabad and NITRA	NITRA, Ghaziabad	Garment Centre	1	250
17.	A Lecture on “Ballistic Textiles”	NITRA, Ghaziabad	RPD, PTTD & MPD(Spg.)	1	55
18.	Seminar on “Ballistic Textiles and Fire Fighter’s Suits”	NITRA, Ghaziabad	CQE, RPD & PTTD	1	12
19.	Workshop on “Scientific Selection and Recruitment of Workforce”	NITRA, Ghaziabad	HRD & Garment Centre	1	12
20.	Presentation at Workshop on “Common Effluent Treatment Plant (CETP)” for Ajrakhpur Block Printing Cluster	Ajrakhpur, Bhuj	MPD(Spg) & Env.	1	25
21.	Awareness Program on “Vittiya Saksharata Abhiyan” for B.Tech. students	NITRA Technical Campus, Ghaziabad	SDC	1	74

S. No.	Nature of Program	Venue	Division	No. of batches	No. of trainees
22.	Training Program on Quality Evaluation of Textiles	Logistics Training School, INS-Hawila, Mumbai	PQE & CQE	1	30
23.	An Awareness Program on ISO 9001 : 2015	NITRA, Ghaziabad	Publication	1	35
24.	A presentation on “Personal Protection Textiles” organized by NITRA, NISTI and Institute of Engineers (Delhi Chapter)	Institute of Engineers, Delhi Committee Room, New Delhi	RPD & CQE	1	30
25.	Training on Operation, Maintenance & Trouble shooting of Effluent Treatment Plant	Radnik Exports, Noida	Env.	1	10
26.	Training on Operation, Maintenance & Trouble shooting of Effluent Treatment Plant	R.R. TRENDS, Noida	Env.	1	10
27.	Training of Trainers	M/s. Ginni Filaments, Kosi Kalan	MPD(Spg) & HRD	1	17
28.	Lab dip development and computer colour matching	NITRA, Ghaziabad	CQE	1	05
29.	Training on Technical Textiles and CAD	NITRA, Ghaziabad	Garment Centre & CQE	1	04

CONSULTANCIES PROVIDED

S.No.	Type of Consultancy	No. of Units
Domestic Consultancy :		
1.	Manpower Rationalization Studies in Garment Unit and Corporate Office	01
2.	Energy Audit	17
3.	Setting-up of 150 KLD CETP for Ajrakhpur Block Printing Cluster, Ajrakhpur, Kutch (Gujarat)	01
4.	Centre Validation for Conducting Training in the Textile Sector for Job roles covered by TSC, New Delhi	02
5.	Workload Assessment Study	02
6.	Study on Autoconer Bobbin Rejection Study	01
7.	Production Process Audit	01
8.	Techno Economic Viability (TEV) Study	01
9.	Third Party Inspection of Towels	01
10.	Third Party Inspection of Mosquito Nets	04
11.	Third Party Inspection of Jersey	06
12.	Third Party Inspection of PC Dope Dyed Cloth	01
13.	Third Party Inspection of Gabardine	04
14.	Third Party Inspection of white shirting	01
15.	Third Party Inspection of Shirting Angola	05
16.	Third Party Inspection of BD Serge Blue	01
17.	Third Party Inspection of Battle Dress	02
18.	Third Party Inspection of Terry Towels	02
19.	Third Party Verification of Khadi mark	05
20.	Third Party Inspection of White Suiting	01
21.	Third Party Inspection of Socks	01
22.	Third Party Inspection of LFCD Cloth	01
23.	Third Party Inspection of T-Shirt	01
24.	Third Party Inspection of Cloth PV Dope Dyed Khaki	01

Contd...

S.No.	Type of Consultancy	No. of Units
25.	Assessment of ISDS Trainees of Airjet Loom Weaver	03
26.	Assessment of ISDS Trainees of Sewing Machine Operator	08
27.	Assessment of ISDS Trainees of Autoconer Operator	15
28.	Assessment of ISDS Trainees of Ring Frame Doffer	10
29.	Assessment of ISDS Trainees of Rapier Loom Weaver	01
30.	Assessment of ISDS Trainees of Ring Frame Machine Operator	01
31.	Assessment of ISDS Trainees of Speed Frame Machine Operator	04

International Consultancy:

S.No.	Type of Consultancy	Name of Company	No. of Units
1.	Workload Assessment Study	M/s. P.T. Elegant Spg. Mills, Indonesia	01
2.	Workload Assessment Study	M/s. P.T. Sunrise Bumi Textiles, Indonesia	01
3.	Workload Assessment Study	M/s. Indophill Textiles, Philippines	01
4.	Energy Audit	M/s. P.N. Composite, Bangladesh	01

STAFF PARTICIPATION IN HRD PROGRAMS

Sl. No.	Details of the program	Venue	Date	Participants status
1.	Smart India Hackathan 2017 Organized by AICTE, Govt. of India	Venkateswara Engineering College, Bangalore	31 st Mar. 2017	Mr. Krishan Dewan (as Mentor)
2.	Smart India Hackathan 2017 Organized by AICTE, Govt. of India	Techno India NIR Institute of Technology, Udaipur, Raj.	31 st Mar. 2017	Mr. Anand Prakash Srivastava (as Mentor)
3.	Technical Textiles Exhibition cum Buyer Seller Meet (B2B)	PHD House, Siri Institutional Area, New Delhi	23 rd -24 th Mar. 2017	Dr. Arindam Basu Mr. A Pal Dr. M.S. Parmar Mrs. Neha Kapil Mr. V.S. Khoiwal Ms. Vasundhara Verma Mr V. Satyanarayana (as organizer, exhibitor & delegates)
4.	National Convention on Vittiya Saksharta Abhiyan (VISAKA) Organized by AICTE, Govt. of India	Vigyan Bhavan , New Delhi	8 th Mar. 2017	Mr. Avnish Sharma (as Mentor)
5.	National Conference on IPR, Future Technology, Optimization and Management (NCIFTOM-2017)	Integrated Academy of Management, Ghaziabad	17 th Feb. 2017	Dr. B.K. Sharma (as Session Chair)
6.	57 th Joint Technological Conference	BTRA, Mumbai	17 th -18 th Feb. 2017	Dr. Arindam Basu (as organizer & speaker) Dr. M.S.Parmar Mr. Vivek Agarwal Ms Shweta Saxena (as speakers) Mr V. Satyanarayana (as delegate)
7.	Curtain raiser of TECHNOTEX-2017,	FICCI, New Delhi	17 th Jan. 2017	Dr. Arindam Basu (Invitee) Dr M.S.Parmar Ms.Neha Kapil Mr. V.S. Khoiwal (as delegates)

SI. No.	Details of the program	Venue	Date	Participants status
8.	7 th International Conference on Cloud System and Big Data Engineering, CONFLUENCE-2017	Amity University, Noida,	12 th Jan. 2017	Dr. B.K. Sharma (as Session Chair)
9.	Enhancing Technical Competence in Sourcing and Supply of Textiles for Navy Officers	DFT department NIFT New Delhi	Jan. 9, 2017	Dr. MS Parmar (as speaker)
10.	Department Research Committee (DRC)	Amity University, Noida,	9 th Dec. 2016	Dr. B.K. Sharma (as External DRC Member)
11.	India International Textile Machinery Exhibition-2016 (ITME-2016)	BCE, Mumbai	6 th -8 th Dec.2016	Dr. Arindam Basu Mr. Rahul Guglani Mr. V.S. Khoiwal (as delegates)
12.	Department Research Committee (DRC)	Amity University, Noida,	27 th June 2016	Dr. B.K. Sharma (as External DRC Member)
13.	Capacity building for Trainers by IFCT & NIESBUD	Hotel The Grand, New Delhi	21 st -24 th June 2016	Mr. R.K. Gaur (as delegate)
14.	2 nd Defence-ITTA Joint Exhibition cum Seminar on Technical Textiles	Ashoka convention Hall, Manekshaw Centre, Delhi Cantt.	15 th -16 th June 2016	Dr. Arindam Basu (as Speaker) Dr. M.S. Parmar Mr. Sanjeev Shukla Mrs. Shweta Chauhan Mr. Jaswant Singh Yadav (as delegates)
15.	Workshop for Ethiopian students	IIT Delhi	18 th May 2016	Dr. Arindam Basu (as Speaker)
16.	Workshop for Ethiopian students	IIT Delhi	27 th May 2016	Dr. Arindam Basu (as Speaker)
17.	Technotex 2016	Mumbai	21 st -23 rd Apr. 2016	Dr. Arindam Basu (as Moderator) Dr. M.S. Parmar Mrs. Neha Kapil Mr V. Satyanarayana (as delegates)

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.	Apparel Online	Fortnightly
5.	Colourage	Monthly
6.	Computer Sanchar Soochna	Monthly
7.	Competition Success Reviews	Monthly
8.	CSI Communication	Monthly
8.	Express Computer	Monthly
10.	Digit	Monthly
11.	India Today (English)	Weekly
12.	Indian Journal of Fibre & Textile Research	Quarterly
13.	Indian Textile Journal	Monthly
14.	Journal of Textile Association	Monthly
15.	Journal of Textile Institute	Bi-monthly
16.	Textile Progress	Quarterly
17.	The Textile Magazine	Bi-monthly
18.	Textiles Magazine	Quarterly

JOURNALS RECEIVED ON COMPLEMENTARY BASIS

	Name of Journal	Frequency
1.	BTRA Scan	Quarterly
2.	Hosiery Times	Weekly
3.	Mantra Textile Magazine	Monthly
4.	PHD Bulletin	Bi-monthly
5.	Priyadarshani	Quarterly
6.	SIMA Review	Monthly
7.	SITRA Focus	Bi-monthly
8.	SITRA News	Bi-monthly
9.	SITRA Trends	Quarterly
10.	Textile Times	Monthly

**PLACEMENT OF STUDENTS OF NITRA TECHNICAL CAMPUS
(As on 31.03.2017)**

Branch : Textile Technology – 2016-17

S.No.	Student Name	Name of Company
1.	Medha Bhattacharya	Vardhman Textiles Ltd.
2.	Koshika Singh	Vardhman Textiles Ltd.
3.	Akhilesh Kumar Bhariti	Sara Textiles Ltd., Noida
4.	Anmol Chhatpuria	Sara Textiles Ltd., Noida
5.	Deepak Phugat	Sara Textiles Ltd., Noida
6.	Sonam Sisodia	Sara Textiles Ltd., Noida
7.	Jasra Khan	Sara Textiles Ltd., Noida
8.	Sarvesh Kumar Yadav	Maharaja Shree Umaid Mills Ltd., Pali (Raj.)
9.	Gaurav Yadav	Maharaja Shree Umaid Mills Ltd., Pali (Raj.)
10.	Dinesh Kumar Vishwakarma	Maharaja Shree Umaid Mills Ltd., Pali (Raj.)
11.	Shiv Nandan Barnwal	Maharaja Shree Umaid Mills Ltd., Pali (Raj.)
12.	Ankit	Maharaja Shree Umaid Mills Ltd., Pali (Raj.)
13.	Upkar Singh Dhaka	Maharaja Shree Umaid Mills Ltd., Pali (Raj.)
14.	Rohan Kumar	IDP Pvt. Ltd., New Delhi
15.	Anjali Saraswat	Pasupati Spg. & Wvg. Mills Ltd.
16.	Deepak Kumar Vaish	Pasupati Spg. & Wvg. Mills Ltd.
17.	Rahul Yadav	Pasupati Spg. & Wvg. Mills Ltd.
18.	Nidhi Yadav	Alok Industries Ltd.
19.	Manish Kumar Gupta	Alok Industries Ltd.
20.	Rohit	Alok Industries Ltd.
21.	Suraj Singh	Alok Industries Ltd.
22.	Ravi Prakash Morya	Alok Industries Ltd.

Branch : Textile Chemistry – 2016-17

S.No.	Student Name	Name of Company
1.	Anadi Mishra	Vardhman Textiles Ltd.
2.	Amit Kumar	Vardhman Textiles Ltd.
3.	Vinay Singh	Sara Textiles Ltd., Noida
4.	Kapil Kumar	Sara Textiles Ltd., Noida
5.	Jay Prakash Singh	Sara Textiles Ltd., Noida
6.	Deeksha Katriyar	Pasupati Spg. & Wvg. Mills Ltd.
7.	Vishnu Raj	IDP Pvt. Ltd., New Delhi
8.	Sachin Gangwar	Alok Industries Limited
9.	Shikha Gupta	Alok Industries Limited
10.	Mini Chaudhari	Alok Industries Limited
11.	Sunil Kumar	Alok Industries Limited
12.	Nitesh Bauddha	Alok Industries Limited
13.	Mohd. Abid	Alok Industries Limited
14.	Varsha Singh	Alok Industries Limited
15.	Mayank Kumar Tiwari	Alok Industries Limited

Branch : Computer Science & Engineering – 2016-17

S.No.	Student Name	Name of Company
1.	Rupesh Sharma	Archtech Information Systems LLC
2.	Ashish Mangal	Space Technology & Education Pvt. Ltd.
3.	Akrati Sheoraut	Next Step Services Pvt. Ltd.
4.	Abhishek Mishra	IT Globaliser, Noida
5.	Akansha Chaudhary	IT Globaliser, Noida
6.	Akhilesh Kumar Singh	IT Globaliser, Noida
7.	Apurva	IT Globaliser, Noida
8.	Mohd. Hafeezullah	IT Globaliser, Noida
9.	Mohd. Faiz	IT Globaliser, Noida
10.	Prem Shankar Dwivedi	IT Globaliser, Noida
11.	Rishi Kumar	IT Globaliser, Noida
12.	Surav Singh	IT Globaliser, Noida
13.	Sunil Kumar Singh	IT Globaliser, Noida
14.	Ashish Malik	Creater Technology, Noida
15.	Prashant Verma	CMS IT Services P. Ltd., Delhi
16.	Harsendra Singh Kushwaha	CMS IT Services P. Ltd., Delhi
17.	Utsav Bhardwaj	CMS IT Services P. Ltd., Delhi

AUDITOR'S REPORT
&
BALANCE SHEET



A group of Kenyan delegates visit NITRA laboratories on January 27, 2017



At the 57th JTC at BTRA, Mumbai: (L-R) Mr. C.R. Prayag, Officiating Director, ATIRA; Dr. Prakash Vasudevan, Director, SITRA; Dr. Arindam Basu, Director General, NITRA; Dr. Anjan K. Mukhopadhyay, Director, BTRA; Dr. Kavita Gupta, Textile Commissioner, MoT; Mr. Narendra Dalmia, Dy. Chairman, Governing Council, BTRA; and Mr. Rajesh Nath, MD, German Engineering Federation (VDMA), West India Office



Dr. Arindam Basu, Director General, NITRA seen with other dignitaries at the Technical Session moderated by him at Technotex-2016



Dr. M.S. Parmar, Jt. Director (A), NITRA along with a senior defense personnel at NITRA pavilion during 2nd Defense - ITTA Exhibition cum Seminar held at Manekshaw Center, Delhi Cantt. on June 15 & 16, 2016



At the presentation on Personal Protection Textiles: Dr. Arindam Basu (extreme left), Director General, NITRA with Prof. Subhash C. Anand (2nd from left), Presenter, University of Bolton, UK and other dignitaries



Career Counselling & Personality Development program under ST-EDM project. Also present are (L-R) Dr. Arindam Basu, Director General, NITRA; Sh. Abhijit Pal, Officiating Director, NITRA; Sh. Krishna Karunesh, IAS, CDO; Sh. M.M. Tiwari, Asst. Director, NITRA and others



Sh. Susheel Kumar Yadav, a 2nd year B. Tech. (Textile Technology) student of NITRA Technical Campus being awarded scholarship by Sh. N.H. Jain, National Vice President, The Textile Association (India). Also present are Sh. J.P. Saria of Saria Charitable Trust and Sh. Sanjay Kr. Jain, Chairman NITRA & MD, TT Ltd. during a ceremony at Delhi.



National Flag being hoisted on the occasion of 70th Independence Day observance at NITRA Technical Campus on 15th August 2016

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 2017 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, 2017.
- (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 : 10th August 2017

NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION, GHAZIABAD

SOURCES OF FUNDS AND MANNER OF EMPLOYMENT AS AT 31ST MARCH 2017

(Amount in ₹)

Sources of Funds	SCH. No.	As at 31.3.2017	As at 31.3.2016
Capital Funds:			
i) Corpus	1	81,97,219	81,42,219
ii) Assets created out of Grants	2	43,00,71,723	40,98,45,919
Reserves & Surplus	3	39,40,761	38,41,882
Depreciation Fund	4	9,20,16,222	8,88,76,798
R & D Reserve	5	4,08,15,797	1,65,15,797
Grants pending utilization	6	2,40,43,192	3,80,77,660
Current Liabilities	7	1,68,66,758	1,51,82,650
Total :		61,59,51,672	58,04,82,925
Manner of Employment			
Fixed Assets	8	49,13,25,267	46,94,60,824
Investments against Earmarked fund.	9	4,11,42,554	4,30,26,150
Current Assets, Loans & Advances	10	8,34,83,851	6,79,95,951
Total:		61,59,51,672	58,04,82,925

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 : 10th August 2017

STATEMENT OF INCOME GENERATION AND ITS UTILISATION

FOR THE YEAR ENDING 31ST MARCH, 2017

(Amount in ₹)

INCOME GENERATION	SCH. No.	As at 31.3.2017	As at 31.3.2016
Grant-in-Aid to meet Recurring Expenditure (Non Plan)		1,50,00,000	1,10,45,000
Industry Contribution & Educational	11	7,41,26,502	7,20,44,315
Other Income	12	94,90,733	67,27,833
Grant-in-Aid to meet Expenditure on Projects	14	99,62,629	51,35,685
Grant-in-Aid to meet Expenditure at Powerloom Service Centres	15	1,32,13,000	1,33,53,470
Total :		12,17,92,864	10,83,06,303
UTILISATION			
Expenditure of Establishment	13	4,74,99,535	5,28,50,693
Expenditure on Projects	14	1,35,06,604	59,67,253
Expenditure on Powerloom Service Centres	15	1,52,87,788	1,36,69,652
Expenditure on General Administration	16	1,79,56,297	2,09,93,127
Transfer to Depreciation Fund		31,43,761	33,73,997
Total :		9,73,93,985	9,68,54,722
Balance available for Appropriation		2,43,98,879	1,14,51,581
Transfer to R&D Reserve		2,43,00,000	1,14,00,000
Surplus transferred to Balance Sheet		98,879	51,581

**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 : 10th August 2017

SCHEDULE – 1

(Amount in ₹)

CAPITAL FUNDS	As at 31.3.2017	As at 31.3.2016
1. Capital Corpus		
a) Admission Fees (Members)		
Balance at the beginning	23,26,779	23,06,779
Receipts during the year	55,000	20,000
Sub Total:	23,81,779	23,26,779
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 :	81,97,219	81,42,219

SCHEDULE – 2

(Amount in ₹)

CAPITAL FUND - ASSETS CREATED OUT OF GRANTS RECEIVED FROM GOVERNMENT AGENCIES	Balance As on 31.3.2016	Additions / Write-off during the year	Balance As on 31.3.2017
<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	1,81,03,349	9,10,415	1,90,13,764
Sub Total :	1,81,03,349	9,10,415	1,90,13,764
<u>Capital Reserve : III</u> (Other Agencies) – National Jute Board DST	28,96,675	8,44,390	37,41,065
Sub Total :	28,96,675	8,44,390	37,41,065
<u>Capital Reserve : IV</u> (Power Loom Service Centres)	14,61,931	63,53,118	78,15,049
Sub Total :	14,61,931	63,53,118	78,15,049
<u>Capital Reserve : V</u> <u>(PLSC's income)</u>	1,84,314	1,32,170	3,16,484
Sub Total :	1,84,314	1,32,170	3,16,484
<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

Contd...

Contd... SCHEDULE – 2

CAPITAL FUND - ASSETS CREATED OUT OF GRANTS RECEIVED FROM GOVERNMENT AGENCIES	Balance As on 31.3.2016	Additions / write-off during the year	Balance As on 31.3.2017
<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	63,75,007	5,01,065	68,76,072
Sub Total :	63,75,007	5,01,065	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>	14,91,77,678	4,70,000	14,96,47,678
Sub Total :	14,91,77,678	4,70,000	14,96,47,678
<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	1,10,14,646
GRAND TOTAL:	40,98,45,919	2,02,25,804	43,00,71,723
Previous year	40,45,56,592	52,89,327	40,98,45,919

SCHEDULE-3*(Amount in ₹)*

RESERVES AND SURPLUS	As at 31.3.2017	As at 31.3.2016
Surplus accumulated: Excess of Income over Expenditure		
Balance at the beginning of Financial Year	38,41,882	37,90,301
Surplus for the year as per Account annexed	98,879	51,581
Total :	39,40,761	38,41,882

SCHEDULE – 4*(Amount in ₹)*

DEPRECIATION FUND	As at 31.3.2017	As at 31.3.2016
Opening Balance	8,88,76,798	8,55,02,801
	(4,337)	
Depreciation for the year	31,43,761	33,73,997
Total :	9,20,16,222	8,88,76,798

SCHEDULE – 5*(Amount in ₹)*

R & D RESERVE	As at 31.3.2017	As at 31.3.2016
a) Opening Balance	1,65,15,797	51,15,797
Less:- Transfer to R&D Reserve	2,43,00,000	1,14,00,000
	4,08,15,797	1,65,15,797
b) Income from PLSCs' 9,98,803		
(-) Spent under capex 1,32,170		
Less : Adjustment during the year <u>8,66,633</u>	-	-
Total :	4,08,15,797	1,65,15,797

SCHEDULE – 6

(Amount in ₹)

S. No.	GRANTS PENDING UTILISATION	Balance at the beginning	Receipts During the year	Adjustment during the year	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
I.	NON-PLAN (Ministry of Textiles)						
	Non-plan (Ministry of Textiles)	-	1,50,00,000	-	-	1,50,00,000	-
	NON-PLAN Previous Year	-	1,10,45,000	-	-	1,10,45,000	-
II.	Plan (Ministry of Textiles & other Agencies)						
1.	Development of special functional fabric for bedding & sportswear for providing extraordinary comfort with excellent micro climate	(9,81,600)	9,81,600	-	-	-	-
2.	Designing a compressed air monitoring system optimize energy consumption in a textile mill.	(32,14,245)	17,55,000	-	-	-	(14,59,245)
3.	Development of specialty embroidery yarn for application in stretchable fabric like knitted fabrics	(15,12,000)	6,48,000	-	-	-	(8,64,000)
4.	Study to Enhance Indian Apparel Exports	5,39,333	5,95,000	-	-	24,73,083	(13,38,750)
5.	Development of Electronic Drape Meter (DST) Based on Image Analysis Technique	16,05,349	-	-	8,10,370	16,28,132	(8,33,153)
6.	Development of Multi Layered Flame & Thermal Resistance Fabric for Fire Fighter Clothing	9,13,360	-	-	-	12,12,000	(2,98,640)
7.	Development of smart protective textiles for fire fighter soldier & old age people.	11,27,000	-	-	-	10,23,439	1,03,561
8.	Development of Protective Work Wear for Cement Porters	11,29,940	-	-	6,30,000	8,71,267	(3,71,327)
9.	Development of Fabric Smoothness Tester	-	7,99,000	-	3,14,875	8,28,063	(3,43,938)
10.	New approaches to reduce water consumption in textile wet processing	-	17,02,000	-	-	2,41,703	14,60,297

Contd...

Contd... SCHEDULE – 6

S. No.	GRANTS PENDING UTILISATION	Balance at the beginning	Receipts During the year	Adjustment during the year	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
11.	Common Effluent Treatment Plant Azrakpur, Bhuj	-	36,50,000	-	-	2,18,757	34,31,243
12.	Extraction of textile fibres from pine & making yarn from it.	-	5,10,000	-	-	5,10,000	-
	Sub Total:	(3,92,863)	1,06,40,600	-	17,55,245	90,06,444	(5,13,952)
	Previous Year:	(69,94,517)	1,04,17,626	67,992	14,49,812	24,34,152	(3,92,863)
III.	POWERLOOM SERVICE CENTRES						
1.	TANDA	(7,83,648)	12,00,000	67,100		12,68,000	(7,84,548)
2.	MEERUT	(15,01,072)	17,00,000	93,500		17,94,000	(15,01,572)
3.	LUDHIANA	(15,08,704)	15,00,000	97,600		16,00,000	(15,11,104)
4.	KANPUR	(14,89,187)	17,00,000	93,165		19,26,000	(16,22,022)
5.	GORAKHPUR	(2,36,844)	12,00,000	-		12,00,000	(2,36,844)
6.	PANIPAT	(52,45,744)	17,00,000	2,52,000		19,55,000	(52,48,744)
7.	BHILWARA	(48,35,199)	17,00,000	84,264		17,90,000	(48,40,935)
8.	VARANASI	24,524	15,00,000	1,79,004		16,80,000	23,528
	Write off excess expenditure of earlier years	55,11,829		14,06,122			69,17,951
	Sub Total:	(1,00,64,045)	1,22,00,000	22,72,755		1,32,13,000	(88,04,290)
	Previous Year:	(1,31,27,834)	1,28,25,000	35,92,259		1,33,53,470	(1,00,64,045)
IV	PLSC Varanasi	1,66,27,925	-	-	47,06,446	-	1,19,21,479
V	Modernization of PLSC's	16,18,728	-	12,30,313	3,88,415	-	-
VI.	COE						
	COE TMTT	3,46,790	-	-	4,70,000	9,56,185	(10,79,395)
	COE Focus Incubation Centre	2,50,82,929	-	-	74,21,775	-	1,76,61,154

Contd...

Contd... SCHEDULE – 6

S. No.	GRANTS PENDING UTILISATION	Balance at the beginning	Receipts During the year	Adjustment during the year	Utilised during the year		Balance carried forward
					Cap. Exp.	Rec. Exp.	
VII.	ISDS						
	ISDS Project	48,58,196	-	-	-	-	48,58,196
	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
	Grand Total:	(64,11,709)	7,99,08,626	36,60,251	95,45,353	2,95,34,155	3,80,77,660

SCHEDULE – 7*(Amount in ₹)*

S.NO.	CURRENT LIABILITIES	As at 31.3.2017	As at 31.3.2016
1.	Sundry Creditors	27,82,219	22,88,950
2.	Outstanding Liabilities	16,37,329	33,55,320
3.	Security & other Deposits	1,24,47,210	95,38,380
Total :		1,68,66,758	1,51,82,650

SCHEDULE – 8

(Amount in ₹)

S. No.	FIXED ASSETS	Total cost as on 31.3.2016	Additions during the Year	Total cost as on 31.3.2017
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	10,16,676	3,26,745	13,43,421
5.	Office Equipments	74,20,083	2,19,501	76,39,584
6.	Cooler (Room & Water)	6,46,384	-	6,46,384
7.	Vehicles	12,70,456	-	12,70,456
8.	Fire Extinguisher	1,18,533	17,755	1,36,288
9.	Intercom, Telephones	2,84,542	-	2,84,542
	Machinery & Equipments:			
	A. In House R&D	1,54,83,054	8,41,871	1,63,24,925
	B. Sponsored Projects**	2,90,16,297	19,87,572	3,10,03,869
	C. CAD & Powerloom Service Centres**	1,59,80,698	69,86,353	2,29,67,051
	D. Testing Lab, Panipat Bhilwara & 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 **	14,91,77,678	4,70,000	14,96,47,678
	G. Focus Incubation Centre (CoE) **	-	1,10,14,646	1,10,14,646
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 :	46,94,60,824	2,18,64,443	49,13,25,267
	Previous Year:	46,30,59,530	64,01,294	46,94,60,824

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 31st March 2017	As at 31st March 2016
1.	Projects	2,90,00,000	3,25,00,000
2.	Others	1,21,42,554	1,05,26,150
Total :		4,11,42,554	4,30,26,150

SCHEDULE – 10*(Amount in ₹)*

S.No.	CURRENT ASSETS & LOANS AND ADVANCES	As at 31.3.2017	As at 31.3.2016
1.	Sundry Debtors	1,23,25,858	1,03,52,634
2.	Advance	17,48,090	2,42,484
3.	Sundry Deposits	6,77,444	6,55,408
4.	Prepaid Expenses	3,39,214	80,322
5. a)	Cash in Hand	75,909	1,74,711
b)	Balance with Banks	1,41,01,952	2,12,56,136
6.	Other Receivables	1,28,70,530	1,32,06,975
7.	FDR with Banks	3,75,45,971	1,91,79,773
8.	Accrued Income	37,98,883	28,47,508
Total :		8,34,83,851	6,79,95,951

SCHEDULE – 11

(Amount in ₹)

S.No.	INDUSTRY CONTRIBUTION & EDUCATIONAL	Current Year	Previous Year
1.	Training & Consultancy		
a)	Foreign assignments 11,07,608		
b)	ISDS & other Educational / Training Prog. 67,59,630		
c)	Other consultancy 98,31,628		
d)	NTC 3,70,04,535	5,47,03,401	4,78,43,811
2.	Sample Testing Fees	1,79,40,321	2,28,32,924
3.	Income Testing Lab Bhilwara, Panipat & Meerut	7,91,405	7,87,780
4.	Membership Subscription	6,91,375	5,79,800
	Total :	7,41,26,502	7,20,44,315

SCHEDULE – 12*(Amount in ₹)*

S.No.	OTHER INCOMES	Current Year	Previous Year
1.	Overhead Recovery on Projects	42,39,856	24,90,051
2.	NITRA Publications	56,216	74,540
3.	Income from Investments	39,14,329	31,61,355
4.	Waste field cotton & Yarn & Income from land utilization	7,69,655	7,23,310
5.	Application Forms	1,27,954	1,05,546
6.	Miscellaneous Income	3,82,723	1,73,031
Total :		94,90,733	67,27,833

SCHEDULE – 13*(Amount in ₹)*

EXPENDITURE ON ESTABLISHMENT	Current Year	Previous Year
NITRA	5,63,41,393	5,74,33,300
Sub Total :	5,63,41,393	5,74,33,300
Less : Transferred to Expenditure on Projects	88,41,858	45,82,607
Total:	4,74,99,535	5,28,50,693

SCHEDULE – 14

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

(Amount in ₹)

Sl. No.	Name of the Sponsored Project	2016-2017		2015-2016	
		Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c to meet sponsored Project Exp.	Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c to meet sponsored Project Exp.
1.	Development of speciality embroidery yarn for application in stretchable fabric like knitted fabrics	-	-	20,24,389	14,07,928
2.	Study to enhance Indian Apparel Export	37,53,963	24,73,083	7,17,024	5,01,917
3.	Development of Electronic Drape Meter (DST) Based on Image Analysis Technique	16,28,132	16,28,132	5,24,307	5,24,307
4.	Development of Smart protective Textiles for fire fighter, soldier & old age people	14,62,055	10,23,439		
5.	Development of Multi layered flame & thermal resistance fabric for fire fighter clothing	17,31,429	12,12,000		
6.	Development of protective work wear for cement porters	12,44,667	8,71,267		
7.	Development of fabric smoothness tester	16,56,126	8,28,063		
8.	New Approaches to Reduce Water Consumption in Textile Wet Processing.	3,45,290	2,41,703		
9.	Extraction of textile fibres from pine & making yarn from it.	5,10,000	5,10,000		
10.	Centre of Excellence	9,56,185	9,56,185	27,01,533	27,01,533
11.	Common Effluent Treatment Plant Azrakpur, Bhuj	2,18,757	2,18,757		
	Total :	1,35,06,604	99,62,629	59,67,253	51,35,685

SCHEDULE-15

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

(Amount in ₹)

S.No	Place of the Centre	2016-2017		2015-2016	
		Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c & income to meet PLSC exps.	Recurring Expenditure	Amount Transferred from Grant-in-Aid A/c to meet PLSC exps.
1.	TANDA	14,82,597	12,68,000	12,09,339	12,09,339
2.	MEERUT	21,02,879	17,94,000	18,96,676	17,30,000
3.	KANPUR	19,93,579	19,26,000	17,59,323	17,59,323
4.	LUDHIANA	18,79,767	16,00,000	18,49,506	17,00,000
5.	GORAKHPUR	13,11,687	12,00,000	12,13,480	12,13,480
6.	PANIPAT	23,12,179	19,55,000	18,13,645	18,13,645
7.	BHILWARA	21,70,044	17,90,000	18,02,207	18,02,207
8.	VARANASI	20,35,056	16,80,000	21,25,476	21,25,476
TOTAL :		1,52,87,788	1,32,13,000	1,36,69,652	1,33,53,470

SCHEDULE – 16*(Amount in ₹)*

EXPENDITURE ON GENERAL ADMINISTRATION	Current Year	Previous Year
Electricity Charges & DG Running	32,99,140	38,49,021
Traveling & Conveyance	11,74,263	15,30,927
Building Maintenance & Housekeeping	6,18,301	5,54,918
Repairs Plant & Machinery, Computer, Building & others	22,66,227	33,53,884
Legal & Professional Exps.	8,07,328	7,49,328
Security Arrangement	15,99,008	14,06,148
Books, Periodicals & Publication	2,74,327	3,64,001
Advertisement exps	10,59,572	5,87,834
Insurance	2,59,192	4,40,694
Cultivation / Horticulture Exps.	5,07,890	4,65,965
Postage & Telephone Exps.	6,78,358	6,92,410
Car Running & Maintenance	3,06,348	2,74,554
Printing & Stationery	10,63,755	8,46,176
Chemicals, Glassware and Spares Stores Consumed	7,28,995	10,48,506
Training & Seminar Exps.	84,295	1,21,580
Honorarium to Auditors	50,000	50,000
Testing lab exps., - Panipat, Bhilwara & Meerut	2,17,828	2,98,915
Other Misc. Expenses	29,61,470	43,58,266
Total :	1,79,56,297	2,09,93,127

SCHEDULE – 17

Accounting Policies and Notes on Accounts

A. BASIS OF ACCOUNTING

The Financial Statements are prepared on Historical cost convention and on Mercantile Accounting system.

B. FIXED ASSET

Depreciated Fixed Assets are stated at cost, which include expenditure incurred on acquisition of assets concerned such as freight, duties, Taxes and incidental expenses up to the installation of assets. Assets acquired in Power Loom Service Centre's, CAD, Sponsored Projects and Testing Labs are stated at Revalued amount.

C. DEPRECIATION

During the year the Society has charged depreciation on fixed assets on Written down Value method as per the rates & manner prescribed in the Income Tax Act 1961.

D. INVESTMENT

Investments are stated at cost.

E. FOREIGN CURRENCY TRANSACTION

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

F. REVENUE RECOGNITION

- (a) All incomes are accounted for on accrual basis except for membership subscription which has taken on receipt basis.
- (b) Government grants are accounted on the basis of sanction letter from the government department.

NOTES ON ACCOUNTS:

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

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

